Pre-Meeting Courses:
- Basic Science Focus Forum
- Grant Writing Workshop
- International Orthopaedic Trauma Care Forum
- Masters Level Trauma Coding Course
- Orthopaedic Trauma Boot Camp
- Orthopaedic Trauma for NP’s & PA’s
- Young Practitioners Forum

www.ota.org

2013 OTA Annual Meeting
OCT. 9-12
JW Marriott Desert Ridge | PHOENIX, AZ

19+ CME
The OTA gratefully acknowledges 2012 Research and Education Donors
The continued success and increased impact of the Orthopaedic Trauma Association’s research and education effort is dependent upon foundation and industry support. The OTA gratefully acknowledges OTA contributors for their support.

<table>
<thead>
<tr>
<th>Foundation Award</th>
<th>SILVER AWARD</th>
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<tr>
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<td>$50,000–$74,999</td>
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<th>DIAMOND AWARD</th>
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Dear Colleagues:

On behalf of the OTA Program Committee, I am pleased to invite you to the 29th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in Phoenix from October 9 – 12, 2013. The committee has put a tremendous effort into planning a meeting which will provide the most comprehensive and up-to-date program related to treatment of musculoskeletal injury available anywhere. A diverse spectrum of topics and the opportunity to attend a wide range of sessions including scientific presentations of original research, didactic lectures, small group discussions, and hands-on labs provide learning opportunities that meet the needs of all musculoskeletal health care professionals. Additional pre-meeting events are specifically designed for orthopaedic physician assistants and nurse practitioners and for non-fellowship trained orthopaedic surgeons.

This year’s meeting will highlight main symposia on topics with broad appeal including the latest evidence-based information on upper extremity injury, the scientific data assessing bone healing, and the evolution and future direction of functional outcome assessment. Continued this year, attendees will have choices throughout the meeting to attend podium presentations or concurrent mini-symposia covering a wide range of topics. Break-out sessions in the form of mini-symposia, case presentations, and skills labs that include other general interest as well as more focused topics will allow attendees to really customize their meeting experience to their particular areas of interest.

The Scientific Program will include the most relevant and scientifically sound research. More than 70 podium presentations and 120 posters were selected by the Program Committee from a record 751 abstract submissions. A session jointly sponsored by the American Orthopaedic Association’s (AOA) “Own the Bone” initiative and the OTA will be embedded within the program to provide a step-by-step workshop for practices and research associates seeking to set up a sustainable center for treatment of fragility fractures.

Five meetings precede the traditional Annual Meeting, beginning with the Basic Science Focus Forum (BSFF), chaired by Ted Miclau, MD and Ed Harvey, MD. The BSFF is a one and one-half day event beginning Wednesday October 9th that will provide an additional in-depth program designed to augment and expand upon the basic science presented and discussed at the main meeting.

Bob Ostrum, MD and Dan Horwitz, MD will chair a one and one-half day Orthopaedic Trauma Boot Camp, beginning Wednesday October 9, designed for practicing orthopaedic surgeons with busy practices outside of trauma who are called upon to solve difficult fracture problems in their communities. Dr. Ostrum will be assisted by a select team of experienced OTA surgeon educators to help increase your knowledge and enhance your competency.

Three additional, single day pre-meeting events will take place on Wednesday, October 9. The perennially popular Masters Level Coding Course will be organized by Scott Broderick, MD and KarenZupko & Associates, Inc. The highly successful International Forum, started three years ago, will continue under the direction of Bill De Long, MD. A Grant Writing Workshop will be offered, chaired by Todd McKinley, MD and Brett Crist, MD. In addition, the half-day Young Practitioners Forum led by Lisa Cannada MD on Thursday morning rounds out the pre-meeting events. We encourage all to arrive early to the Annual Meeting and take full advantage of these OTA offerings.

A two and one-half day course specifically designed for Physician Assistants, chaired by Mike Archdeacon, MD, Cliff Jones, MD, Dan Coll, PA-C, and Keith Zurmehly, PA-C, will run concurrent with the Annual Meeting from Thursday, October 10 to Saturday, October 12.

The common feature of each program event is the commitment to providing the highest quality, most interesting and clinically relevant material related to musculoskeletal trauma by world-class faculty and experts. We truly believe that anyone involved in the field will benefit from this year’s OTA Annual Meeting.

Please consider joining us in Phoenix!

Sincerely,

Thomas F Higgins, MD
Annual Meeting Program Chair
Dear Colleagues:

I am pleased to welcome you to Phoenix, Arizona, for the 29th Annual Meeting of the Orthopedic Trauma Association!

The meeting will be held at the picturesque JW Marriott Desert Ridge in north Phoenix/Scottsdale. This family friendly property has amenities all can enjoy. Nearby Desert Ridge Marketplace offers a variety of shopping, dining, and entertainment opportunities.

The meeting will be a great time to catch up with friends and colleagues, as well as discuss many important issues related to the practice of orthopedic trauma. In addition it provides a great opportunity to spend some time enjoying the vast recreational opportunities the Valley of the Sun offers. Experience the beautiful Sonoran Desert hiking, biking, or on horseback. Study Native American culture at the Heard Museum, or stroll through plots of cactus and native plants at the Botanical Gardens. Enjoy a set or two of tennis. Settle scores with old friends with a round of golf on one of many nearby world class courses. Don’t be surprised to see coyotes accompany you on early morning tee times. For the more adventurous day trips, rent a houseboat at Lake Pleasant, or drive to historic Jerome or Sedona. The landscape is unforgettable!

For those interested in spectator sports, the Arizona Cardinals will be away, but the ASU Sun Devils will play Colorado on October 12. October weather in Phoenix is spectacular! Sunny skies are the rule with daytime highs around 88 degrees, perfect for relaxing around crystal blue pools. Sporting activities are best done in the morning or after sunset to avoid dehydration. Use more sunscreen and drink more water than you think you need. Nighttime lows are around 60 degrees and perfect for outdoor dining and walking.

I look forward to seeing you all in October. Let me know if you have any questions regarding your upcoming visit.

Sincerely,

Laura J Prokuski
Mission Statement
The mission of the Orthopaedic Trauma Association (OTA) is to promote excellence in care for the injured patient, through provision of scientific forums and support of musculoskeletal research and education of Orthopaedic Surgeons and the public.

Vision Statement
The OTA will be the authoritative source for the optimum treatment and prevention of musculoskeletal injury, will effectively communicate this information to the Orthopaedic and medical community and will seek to influence health care policy that affect care and prevention of injury.

Value Statement
The OTA is adaptable, forward thinking and fiscally responsible and is composed of a diverse world-wide membership who provide care and improve the knowledge base for the treatment of injured patients. OTA members provide worldwide leadership through education, research and patient advocacy.

CME Credits
19+ AMA PRA Category 1 Credits™ for attending the Annual Meeting. Additional credits if you attend premeeting events:
Basic Science Focus Forum (10.25 CME)
Masters Level Trauma Coding (6 CME)
International Trauma Care Forum (8.5 CME)
Orthopaedic Trauma Boot Camp (12 CME)
Young Practitioners Forum (4 CME)
Grant Writing Workshop (8.5 CME)
NP/PA Course (20.25 AAPA Category 1 CME Credits)

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The OTA is an organization dedicated to the discovery and dissemination of knowledge and information regarding the prevention, diagnosis, and treatment of musculoskeletal injuries. The 29th OTA Annual Meeting will provide all registrants the opportunity to witness presentations of peer-reviewed original basic science and clinical research papers, posters and symposia that present current concepts for topics of general interest. A multitude of mini-symposia, bio-skills labs, informal case presentations, and technical exhibits, each with specific focus, will enable a customized educational experience. Ample opportunity will be available for expression of common concerns, sharing of relevant experiences and discussion of alternative treatment approaches.

**Target Audience**

The Orthopaedic Trauma Association (OTA) Annual Meeting is for the benefit of orthopaedic trauma surgeons and related allied health care professionals.

**Objectives**

After attending the OTA Annual Meeting, participants will be able to:

- Discuss the most up-to-date clinical and basic science advancements related to orthopaedic trauma
- Understand current problems, options, and role for functional outcomes in the assessment of fracture care
- Recognize the differences in operative and non-operative treatment of common upper extremity injuries
- Become familiar with the changing landscape of outcomes measures and how this may impact orthopaedic trauma in the future

**2013 Program Committee**

Thomas F Higgins, MD, Program Chair  
Robert V O’Toole, MD, Program Co-Chair  
Michael J Gardner, MD  
Pierre Guy, MD, MBA  
Stephen A Kottmeier, MD  
Michael D McKee, MD  
Gilbert R Ortega, MD  
John T Ruth, MD  
David W Sanders, MD

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Basic Science Focus Forum

Theodore Miclau, III, MD Program Chair

Target Audience

Academic orthopaedic surgeons, community surgeons with an interest in clinically relevant basic science, basic and clinical researchers, residents and fellows will benefit most from this Basic Science Focus Forum.

Attendees of this activity can earn up to 10.25 AMA PRA Category 1 Credits™

Objectives

Upon successful completion of the Basic Science Focus Forum, you will be able to:
• Review clinical relevance for hot topics in biomechanically directed fixation
• Understand etiology of and therapy for venous thromboembolism in trauma patients
• Review the epidemiology and treatment of atypical femur fractures
• Know about state-of-the-art technologies and practices in intraoperative imaging
• Recognize the cycle of innovation and its importance to clinical research

Wednesday, October 9, 2013

6:30 am Registration & Breakfast
7:25 am Introduction:
Theodore Miclau, III, MD
Program Chair

7:30 am – 8:40 am Symposium 1

Hot Topics in Biomechanics:
Hip Fracture Fixation
Moderators: Steven A Olson, MD; Loren L Latta, PhD

7:30 am Fixation Recommendations in 2013: Intramedullary Nailing
Emil H Schemitsch, MD

7:40 am Fixation Recommendations in 2013: Plating
Steven A Olson, MD

7:50 am Considerations in New Devices Development: Ease of Use to FDA Concerns
Joseph Ferrante, PhD

8:00 am Selecting the Best Model: Comparing Existing Devices to New Constructs
Loren L Latta, PE, PhD

8:10 am Translating Biomechanical Findings into Clinical Practice
Thomas A Russell, MD

8:20 am Discussion

8:40 am – 9:38 am Paper Session 1

Biomechanically-Directed Fixation: Hot Topics
Moderators: Steven A Olson, MD; Loren L Latta, MD

8:40 am Overview: Steven A Olson, MD

8:50 am Paper 1
Lunotriquetral Ligament Injuries Associated With Distal Radius Fractures: The Effect Of Wrist Position And Forearm Rotation During A Fall Onto An Outstretched Hand
Check C Kam; Prasad Sawai deker, MD; Raz Nicolescu; David Kaimrajh, MS; Jordan Fennema, MD; Paul Diaz-Granados, MD; Edward Milne; Loren L Latta, MD, PhD; Elizabeth Anne Ouellette, MD, MBA

8:56 am Paper 2
Biomechanical Analysis Of Far Proximal Radial Shaft Fracture Fixation
Gregory Gaski; Stephen M Quinn, MD; David Kaimrajh, MS; Edward Milne; Loren L Latta, MD, PhD

9:02 am Paper 3
No Difference In Fatigue Failure Between Non-Locked And Locked Interlocking Screws Of Intramedullary Nails In Proximal Tibia Fractures
Utku Kandemir, MD; Safa Herfat; Murat Pekmezci, MD

9:08 am Discussion
9:14 am Paper 4
Is Overdrilling Of Cortical Screws An Appropriate Surrogate For Osteoporosis In Biomechanical Testing?
Jacob Cartner, BS; Megan Fessenden; Tim Petteys; Paul Tornetta, III, MD

9:20 am Paper 5
Finite Element Analysis Of The Distal Femur: Fracture Motion Predicts Clinical Callus
William Lack; Jacob Elkins, MS; Trevor Lujan, PhD; Richard Peindl, PhD; James Kellam, MD; Donald D Anderson, BS, MS, PhD; Thomas D Brown, PhD; J Lawrence Marsh, MD

9:26 am Paper 6
The Minimal Screw Length For Tricortical Syndesmosis Fixation In Ankle Fracture: A Cadaveric Study
Derrick O Cote, MD; Alexander Chong; Bradley Dart; Nils Hakansson; Michael Ward; Pie Pichetsuri thorn; Paul Wooley

9:32 am Discussion
9:38 am Break
10:00 am – 11:10 am  Symposium 2

**Inflammation**

Moderators:  Peter V Giannoudis, MD;  Chelsea Bahney, PhD

10:00 am  Inflammation and Healing: When is Too Much a Bad Thing?
Chelsea Bahney, PhD

10:10 am  Inflammatory-Related Cytokines: What Role Do They Have in Healing?
David J Hak, MD, MBA

10:20 am  Can PRPs Modulate the Inflammatory Response During Healing?
Peter V Giannoudis, MD

10:30 am  Anti-Inflammatories: How and When Can They be Useful in Orthopaedic Trauma?
David W Sanders, MD

10:40 am  Systemic Trauma: Evidence-Based Recommendations for Timing of Fixation in 2013
Hans-Christopher Pape, MD

10:50 am  Discussion

11:10 am – 11:44 am  Paper Session 2

**Inflammation and Bone Healing**

Moderators:  Peter V Giannoudis, MD;  Chelsea Bahney, PhD

11:10 am  Overview: Peter V Giannoudis, MD

11:20 am  Paper 7
Age-Related Changes In Macrophage Polarization Affects Osteogenesis
Fei Gao, MD, PhD; Jesse Shantz; Yan Yiu Yu, PhD; Ralph S Marcucio, MD; Theodore Miclau, III, MD

11:26 am  Paper 8
T-Lymphocyte Immune Modulation In Fracture Repair: The Role Of II-17F In A Novel GSK3 /Beta-Catenin Independent Pathway
Elaine Mau, MD, MSc; Yufa Wang; Heather Whetstone; Diane Nam, MSc, MD, FRCSC

11:32 am  Paper 9
Lipopolysaccharide-Induced Systemic Inflammation Affects Bone Healing In A Murine Tibia Fracture Model
Jesse A Shantz, MD, MBA; Gao Fei, MD; Yan Yiu Yu, PhD; Theodore Miclau, III, MD; Ralph S Marcucio, PhD

11:38 am  Discussion

11:44 am  Lunch

12:45 pm – 1:55 pm  Symposium 3

**Bone Grafting**

Moderators:  Joseph Borrelli, Jr, MD;  Kenneth A Egol, MD

12:45 pm  Efficacy of Autografts: Do Harvest Sites Matter?
Aaron Nauth, MD

12:55 pm  Grafting in the Setting of Infection: Strategies
Hans-Christoph Pape, MD

1:05 pm  Bone Graft Extenders: Which Ones Work?
J Tracy Watson, MD

1:15 pm  Bone Graft Timing: What is Most Optimal?
Mark A Lee, MD

1:25 pm  Bone Graft Substitutes: Is Anything as Effective as Autograft?
Kenneth A Egol, MD

1:35 pm  Discussion

1:55 pm – 3:24 pm  Paper Session 3

**Bone Regeneration and Repair**

Moderators:  Joseph Borrelli, Jr, MD;  Kenneth A Egol, MD

1:55 pm  Overview: Joseph Borrelli, Jr, MD

2:05 pm  Paper 10
The Influence Of Construct Stiffness On Bone Regeneration In A Rodent Defect Model
Joel C Williams, MD; Matthew A Anderson, BS; Blaine A Christiansen, PhD; A Hari Reddi, PhD; Mark A Lee, MD

2:11 pm  Paper 11
A Novel Rodent Critical Sized Defect Model And BMP-7 Dose Response Study
Joel C Williams, MD; Sukanta Maitra; Matthew J Anderson, BS; Blaine A Christiansen, PhD; A Hari Reddi, PhD; Mark A Lee, MD

2:17 pm  Paper 12
Spacer Composition Influences Properties Of The Masquelet Membrane In Animals And Observed Gene Expression Patterns Of Inducible Membranes In Humans
Monique Bethel, MD; Susan M McDowell, MD; Brahmananda R Chitteti, PhD; Tien-Min Gabriel Chu, DDS, PhD; Janos P Ertl, MD; Brian H Mullis, MD; Melissa A Kacena, PhD; Jeffrey O Anglen, MD

2:23 pm  Paper 13
The Masquelet Technique Induces The Formation Of A Mesenchymal Stem Cell Rich Periosteum Like Membrane
Peter V Giannoudis, MD; Richard Cuthbert; Sarah Churchman; Tan Boon; Dennis McDonagel

2:29 pm  Discussion
2:37 pm  Paper 14
Opiates Impair Healing In Rat Femur Fracture Model
Jesse Chrastil, MD; Thomas F Higgins, MD; Christopher Sampson; Kevin Jones

2:43 pm  Paper 15
Systemic Inhibition Of Notch Signaling Alters Multiple Phases Of Fracture Healing
Michael Dishowitz, PhD; Luke Lopas; Joel Takacs; Julie Engiles; Jaimo Ahn, MD, PhD; Kurt D Hankenson, DVM

2:49 pm  Paper 16
Unexpected Dispensable Role Of MMP9 In A Stabilized Femur Fracture Model
Cesar S Molina, MD; Masato Yuasa, MD; Johnathan G Schoencker, MD, PhD

2:55 pm  Discussion

3:01 pm  Paper 17
The Non-Essential And Potentially Pathogenic Role Of A Fibrin Clot In Fracture Healing
Masato Yuasa, MD; Nicholas Mignemi; Heather Cole; Lynda O’Rear; Jesse Bible, MD; William T Obremskey, MD, MPH; Jeffry Nyman; Justin Cates; Herbert Schwartz; Jonathan Gregory Schoencker

3:07 pm  Paper 18
Single Nucleotide Polymorphisms In Osteogenic Genes In Atrophic Delayed Fracture Healing – A Preliminary Investigation
Vikram Sathyendra, MD; Henry J Donahue, PhD; Kent E Vrana, PhD; Arthur Berg, PhD; David Fryzel, BS; Jonathan Gandhi, BS; J Spence Reid, MD

3:13 pm  Paper 19
Systemic Proteomic Profiles Associated With Healing And Nonunion Of Mid-Shaft Femur Fractures
Andrew Ringnes, MD; Melissa Nicole Zimel, MD; Denise Koueiter, MS; Tristan Maerz; Timothy Geddes; Kevin Grant, MD; Kevin Baker

3:19 pm  Discussion
3:25 pm  Break

3:45 pm – 4:50 pm  Symposium 4

3:45 pm  Global Clinical Research: Why Do We Need It?
Paul Volberding, MD

4:00 pm  What Kind Of Evidence is Needed to Change Practice or Policy?
David Shearer, MD, MPH

4:10 pm  Conducting International Clinical Research: What Resources are Necessary?
Emil H Schemitsch, MD

4:20 pm  Selecting the Right Study Design: Balancing Science and Resources
Saam Morshed, MD, PhD

4:30 pm  International Research Studies: How to Partner?
Gerard P Slobogean, MD, MPH

4:40 pm  Discussion

4:50 pm – 5:30 pm  Paper Session 4

International Research Studies
Moderators: Saam Morshed, MD, PhD; Paul Volberding, MD

4:50 pm  International Registries: INORMUS
Clary K Foote, MD

4:56 pm  Management Of Closed Femur Fractures With The SIGN Intramedullary Nail In Two Developing African Countries (Multicenter Observational Study)
Kyle R Stephens, DO; Daniel Galat, MD; Duane Anderson, MD; Kiprono G Koech, MD; Paul Whiting, MD; Michael Mwachiro, MD; Douglas W Lundy, MD

5:02 pm  The Design Of A Prospective Observational Study To Evaluate The Outcomes Of Operatively Treated Femoral Shaft Fractures In Sub-Saharan Africa (Single-Center Observational Study)
David Shearer, MD, MPH; Edmund Eliezer, MD; Billy Haonga, MD; Saam Morshed, MD, PhD

5:08 pm  International Randomized Control Trial: FLOW
Kyle J Jeray, MD

5:14 pm  Discussion
5:30 pm  Adjourn to International Poster Reception
### Thursday, October 10, 2013

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<th>Time</th>
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<td>7:25 am</td>
<td>Introduction</td>
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<td>Theodore Miclau, III, MD, Program Chair</td>
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<td>7:30 am – 8:40 am</td>
<td>Symposium 5</td>
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<td><strong>Infection</strong></td>
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<td>Moderators: Emil H Schemitsch, MD; Joseph C Wenke, PhD</td>
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<td>7:30 am</td>
<td>Diagnosis of Infection in Orthopaedic Trauma Patients: New Technologies</td>
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<td>Joseph C Wenke, PhD</td>
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<td>7:40 am</td>
<td>Preventing Orthopaedic Infections</td>
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<td>David Markel, MD, MPH</td>
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<td>7:50 am</td>
<td>Implant-Related Infections: Bugs and Biofilms</td>
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<td>Lawrence X Webb, MD</td>
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<td>8:00 am</td>
<td>Managing Hardware-Related Infections: Evidence Based Strategies</td>
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<td>Mike D McKee, MD</td>
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<td>8:10 am</td>
<td>Treatment of Post-Traumatic Osteomyelitis: The Next Generation!</td>
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<td>Todd O McKinley, MD</td>
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<td>8:20 am</td>
<td>Discussion</td>
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<td>8:40 am – 9:13 am</td>
<td>Paper Session 5</td>
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<td><strong>Musculoskeletal Infection</strong></td>
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<td>Moderators: Emil H Schemitsch, MD; Joseph C Wenke, PhD</td>
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<td>8:40 am</td>
<td>Overview: Emil H Schemitsch, MD</td>
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<td>8:50 am</td>
<td><strong>Paper 22</strong> Development And Evaluation Of A Biofilm Dispersing Scaffold</td>
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<td>Chad A Krueger, MD; Carlos J Sanchez, PhD; Edna Margarita-Prieto, PhD; Katarzyna J Zienkiewicz, PhD; Desiree R Romano, BA; Kevin S Akers, MD; Scott A Guelcher; Joseph C Wenke, PhD</td>
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<td>8:56 am</td>
<td><strong>Paper 23</strong> Intraoperative Dip-Coating Inhibit Biofilms And Support Bone Healing During Infection</td>
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<td>Thomas Schaer, DVM; Suzanne Stewart, DVM</td>
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<td>9:02 am</td>
<td><strong>Paper 24</strong> Evaluation Of An Absorbable Gentamicin Eluting Plate Sleeve In An Ovinal Fracture Healing Model</td>
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<td>Joanne Haughan, DVM; Carl A Depaula, PhD; David Armbruster, BS; Thomas Schaer, DO</td>
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<td>9:08 am</td>
<td>Discussion</td>
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<td>9:13 am</td>
<td>Break</td>
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<td>9:30 am – 10:40 am</td>
<td>Symposium 6</td>
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<td><strong>Stem Cell Therapies</strong></td>
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<td>Moderators: Theodore Miclau, III, MD; Ralph S Marcucio, PhD</td>
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<td>9:30 am</td>
<td>Stem Cell Populations: Which Ones are Most Useful?</td>
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<td>Aaron Nauth, MD</td>
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<td>9:40 am</td>
<td>Stem Cells: How Do They Influence Healing?</td>
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<td>Peter V Giannoudis, MD</td>
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<td>9:50 am</td>
<td>Progenitor Cells: What are The Sources?</td>
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<td>Ralph S Marcucio, MD</td>
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<td>10:00 am</td>
<td>Stem Cell Therapies: What Still Needs to be Overcome?</td>
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<td>Chelsea Bahrney, PhD</td>
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<td>10:10 am</td>
<td>Developing Stem Cell Approaches to Bone Defect</td>
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<td>George Muschler, MD</td>
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<td>10:20 am</td>
<td>Discussion</td>
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<td>10:40 am – 11:14 am</td>
<td>Paper Session 6</td>
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<td><strong>Stem Cells</strong></td>
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<td>Moderators: Theodore Miclau, III, MD; Ralph S Marcucio, PhD</td>
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<tr>
<td>10:40 am</td>
<td><strong>Overview</strong>: Ralph S Marcucio, PhD</td>
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<td>10:50 am</td>
<td><strong>Paper 25</strong> Effects Of Endothelial Progenitor Cell Therapy On Diabetic Rat Fracture Healing</td>
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<td>Clifford Lin, MD; Aaron Nauth, MD; Emil H Schemitsch, MD</td>
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<tr>
<td>10:56 am</td>
<td><strong>Paper 26</strong> The Effects Of Aminobisphosphonate In Vitro And In Vivo Treatment On The Osteogenic Capacity Of Bone Marrow Stromal Cells From Senile Osteoporotic Hip Fracture Patients</td>
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<td>Richard Andreas Lindtner, MD; André N Tiaden, PhD; Konstantin Genelin, MD; Hannes L Ebner, PhD; Ingrid Sitte, MD; Marina Klawitter, Brigitte von Rechenberg, Professor; Peter J Richards, PhD</td>
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<td>11:02 am</td>
<td><strong>Paper 27</strong> Healing Segmental Bone Defects With Endothelial Progenitor Cell Subtypes</td>
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<td>Erica Giles, BS; Michael Glick, BSc; Tony Lin, BSc; Wendy Chi; Aaron Nauth, MD; Emil H Schemitsch, MD</td>
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<tr>
<td>11:08 am</td>
<td>Discussion</td>
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<tr>
<td>11:14 am</td>
<td><strong>Adjourn to Industry Lunch Symposia</strong></td>
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</table>
Orthopaedic Trauma Boot Camp

Robert F Ostrum, MD; Daniel S Horwitz, MD

Attendees of this activity can earn up to 12 AMA PRA Category 1 Credits™

Target Audience

This course is intended for the practicing orthopaedic surgeon who takes emergency room or trauma call. Current techniques in operative care will be stressed with attention to appropriate soft tissue management and up-to-date implant selection. Case discussions will be used for interactive learning and audience participation.

Objectives

Upon successful completion of this course, you will be able to:

- Understand current indications for operative and non-operative treatment of fractures and dislocations
- Comprehend appropriate surgical techniques, approaches, and implant selections for fracture care
- Recognize the importance of careful soft tissue techniques
- Analyze critically ill traumatized patients and practice appropriate temporary stabilization procedures and establish protocols for transfer

Wednesday, October 9, 2013

6:15 am Registration and Continental Breakfast
7:00 am Welcome and Announcements

Moderator: Daniel S Horwitz, MD

7:05 am Clavicle Fractures
Robert A Probe, MD

7:25 am Proximal Humerus Fractures
John T Capo, MD

7:45 am Distal Humerus Fractures
David C Teague, MD

8:05 am Distal Radius Fractures
Thomas F Varecka, MD

8:25 am Questions/Discussion

8:40 am Case Presentations
Daniel S Horwitz, MD

Moderator: Steven J Morgan, MD

8:55 am Open Fractures
Robert F Ostrum, MD

9:15 am Orthobiologics
J Tracy Watson, MD

9:35 am Initial Management of the Polytrauma Patient
Dolfi Herscovici, Jr, DO

9:55 am Questions/Discussion

10:10 am Case Presentations
Steven J Morgan, MD

10:25 am Break

10:45 am Lab 1 – Proximal Humerus Locking Plate
Lab Leader: John T Capo, MD
Lab 2 – Distal Radius Plating – Locked Volar, Focal Dorsal
Lab Leader Thomas F Varecka, MD

11:00 am-11:30 am Case Presentations
Moderator: Frank A Liporace, MD

11:35 am Femoral Neck Fractures in Younger Patients
J Tracy Watson, MD

11:55 am Femoral Neck Fractures in Elderly: ORIF, Monopolar, or THR
Kenneth A Ego, MD

12:15 pm Intertrochanteric Fractures: IMHS Versus DHS
Jeffrey O Anglen, MD

12:35 pm Questions/Discussion

12:50 pm Lunch with Case Presentations
Robert F Ostrum, MD

Moderator: Frank A Liporace, MD

1:30 pm Posterior Wall Acetabulum Fractures
Andrew H Schmidt, MD

1:50 pm Femoral Nailing: Antegrade Versus Retrograde
Daniel S Horwitz, MD

2:10 pm Supracondylar Femur Fractures
Paul Tornetta III, MD

2:30 pm Periprosthetic Fractures
Daniel S Horwitz, MD

2:50 pm Break

3:10 pm Role and Technique for Spanning External Fixator
Jeffrey O Anglen, MD

3:30 pm Patella Fractures
Joshua Langford, MD

3:50 pm Questions/Discussion

4:10 pm Case Presentations
Frank A Liporace, MD

4:30 pm Adjourn

Thursday, October 10, 2013

Moderator: Erik Kubiak, MD

7:00 am Tibial Plateau Fractures
Steven J Morgan, MD

7:20 am Tibial Shaft Fractures
Philip R Wolinsky, MD

7:40 am Tibial Nonunions
Gerald J Lang, MD

8:00 am Pilon Fractures
Steven J Morgan, MD

8:20 am Questions/Discussion

8:35 am Case Presentations
Erik Kubiak, MD

8:50 am Break

9:00 am Lab 1 – Distal Femoral Plating
Lab Leader: Erik Kubiak, MD
Lab 2 – Proximal Tibia Plating
Lab Leader: Philip R Wolinsky, MD

9:50 am Talus Fractures
Dolfi Herscovici, Jr, DO

10:10 am Calcaneus Fractures
Erik Kubiak, MD

10:30 am Questions/Discussion

10:45 am Case Presentations
J Tracy Watson, MD

11:00 am Adjourn
Robert F Ostrum, MD

11:00 am–12:45 pm Industry Lunch Symposia
(Box lunch available)
Wednesday, October 9, 2013

Todd O McKinley, MD, Chair; Brett D Crist, MD, Co-Chair

Attendees of this activity can earn up to 7 AMA PRA Category 1 Credits™

Target Audience

This workshop is designed for any surgeon who is interested in writing competitive peer-reviewed grants. It is particularly suited for younger faculty, trauma fellows, and senior level residents who are going to pursue a career in orthopaedic trauma. The workshop will cover principles that apply to both entry level grants (i.e. OTA-sponsored grants) and secondary higher-order funding such as NIH or DOD level grants.

Objectives

Upon successful completion of the OTA/ORS Grant Writing Workshop, you will be able to:

• Identify the mechanics of writing a successful research grant
• Understand the grant review process

Program

6:30 am Registration and Continental Breakfast
7:25 am Introduction
Todd O McKinley, MD, Chair, OTA/ORS Grant Writing Workshop

7:30 am–9:30 am Didactics: Mechanics of a Grant

Moderator: Marc F Swiontkowski, MD

7:30 am Introduction and Specific Aims
TBD

7:50 am Background and Significance
Stephen L Kates, MD (OTA)

8:10 am Discussion

8:30 am Previous Work / Experimental Design and Methods
Aaron Stoker, PhD (ORS)

8:55 am Finishing the Grant: Alternative Strategies / Limitations, Budget, Bio-Sketches, Human Subjects and Vertebrate Animals
Donald D Anderson, PhD (OTA, ORS)

9:15 am Alternative Funding Sources: How to Successfully Interact with Industry
James P Stannard, MD (OTA)

9:30 am Discussion
9:45 am Break

10:00 am–12:00 pm Optimizing Your Chances of Success

Moderator: TBD

10:00 am Establish Rapport with Reviewers
Theodore Miclau, III, MD (OTA, ORS)

10:30 am Collaborations
Marc F Swiontkowski, MD (OTA, ORS)

10:50 am The OTA Grant Review Process and How to Succeed
Todd O McKinley, MD (OTA, ORS)

11:10 am Keynote Speaker
Translational Research: Starting from the Ground Up
James L Cook, DVM, PhD (ORS)

11:35 am Discussion
12:00 pm Lunch

Small Group Activities:
(Groups of 3 to 4 attendees per faculty in small group discussions)

1:00 pm–2:30 pm
All Faculty
Attendees and faculty will be required to read a library of grants prior to the workshop for these discussions.
• Successful Grant Review and Discussion
• Marginal Grant Review and Discussion
• Rejected Grant Review and Discussion

2:30 pm Break

3:00 pm–4:00 pm
All Faculty
Mock Grant Review

4:00 pm–4:30 pm
All Faculty
Discussion of Mock Grant Review, Small Group Activities and Closing Remarks
Brett D Crist, MD (OTA)
International Orthopaedic Trauma Care Forum

Wednesday, October 9, 2013
William G De Long, Jr, MD; Saqib Rehman, MD;
Douglas W Lundy, MD, Chairmen
Attendees of this activity can earn up to 8.5 AMA PRA Category 1 Credits™

Target Audience
The Orthopaedic Trauma Association (OTA) International Orthopaedic Trauma Care Forum is for the benefit of orthopaedic trauma surgeons and related allied health care professionals with an interest in international trauma healthcare.

Objectives
Attendees of the International Orthopaedic Trauma Care Forum will:
• Learn about the varied methods of treating fracture and trauma complications from around the world
• Become familiar with unique approaches to lower extremity injuries treated in areas of the world with limited resources
• Increase understanding and knowledge of orthopaedic resident training internationally
• Learn about state of the art methods to manage open fractures
• Understand the differences of Orthopaedic Post-Graduate Training in Asia, Germany and South America

Program
7:00 am Registration and Continental Breakfast
7:30 am Introduction – William G De Long, Jr, MD
7:35 am–8:05 am Symposium 1
International Comparison of Orthopaedic Post-Graduate Training
China: Prof. Wang Manyi, MD
Germany: Hans-Christoph Pape
Brazil: Ney Amaral, MD
8:05 am–10:37 am Paper Session 1
Fractures of the Lower Extremity
Moderators: Saqib Rehman, MD
David C Templeman, MD
8:05 am Paper 1
The Retrograde Tibial Nail – A New Implant Concept for Distal Tibia Fractures
Sebastian Kuhn, MD; Philipp Appelmann, MD;
Phillip Paimon, MD; Dorothea Mehler, MD;
Pål M Rommens
University Medical Center of the Johannes Gutenberg University Mainz, Germany
8:13 am Paper 2
Infection Rates Following Intramedullary Nailing of Open Tibial Shaft Fractures in Low- And Middle-Income Countries
Paul Whiting, MD; Daniel Galat, MD;
Lewis G Zirkle, Jr., MD;
Tufts Medical Center, Boston, MA
8:21 am Paper 3
Outcome of Reamed Intramedullary Interlocking Nail in Open Fracture Shaft Tibia
Pankaj Kumar, MD
Sant Ishar Singh Hospital Pehowa, Kurukshetra Haryana, India
8:29 am Discussion
8:44 am Paper 4
Surgical Treatment of Lateral Tibial Plateau Fractures with Porous Titanium Granules or With Bone Graft – Preliminary Results From an Ongoing Randomized Study
Brynjolfur Y Jonsson, MD
Kopavogur, Iceland
8:52 am Paper 5
Masquelet Technique for the Treatment of Open Tibial Fractures with Bone Defects
Martin M Mangupli, MD
Cordoba, Argentina
9:00 am Paper 6
Avoiding Rotational Mismatch of Locking Distal Tibia Plates Depends on Proper Plate Position
Kyu-Hyun Yang, MD
Yongdong Severance Hospital, Seoul, Korea
9:08 am Closed Tibia Interlocking Nails without Image Intensifier
Innocent Chiedu Ikem, MD*
Obafemi Awolowo University, Osun State, Nigeria
9:16 am Discussion
9:31 am Break
9:51 am Paper 7
Coronal Mismatch of Femoral Locking Plates on Asian Femur: Probably an Insidious Trap Leading Valgus Malunion or Nonunion In Mid-Distal Femoral Fractures
Jian Lin, MD; Oiu-gen Wang, MD;
Jian-hua Huang, MD; Jian-dong Wang, MD;
Xiao-feng Wu, MD; Jie Tao, MD; Wei Gao, MD;
Hao-qing Li, MD
Shanghai First People’s Hospital, Shanghai
Jiaotong University Shanghai, China
9:58 am Paper 8
Comparison of Anterior Position of Distal Femoral Nail End in Randomised Treatment of Trochanteric Fractures
Nicholas Boyd Jorgensen, MBBS;
Cameron Cooke, MBBS, FRACS
Princess Alexandra Hospital, Brisbane, Australia
10:06 am Paper 9
Total Hip Arthroplasty for Failed Proximal Femoral Fracture Fixations Gunasekaran Kumar, MD; Viju Peter, MD; Colin Dunlop, MD
Pfent, United Kingdom

2013 OTA Sign Scholar Recipient
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<tr>
<th>Time</th>
<th>Paper</th>
<th>Title</th>
<th>Authors/Institutions</th>
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<tbody>
<tr>
<td>10:14 am</td>
<td>Paper 10</td>
<td>Cementless Total Hip Replacement for Displaced Subcapital Femoral Fractures</td>
<td>Diana Kennedy, MBBS; Cameron Cooke, MD; Lloyd (Doug) King, FRCS(Ortho); Mark Dekkers, FRCS(Ortho) Brisbane, Australia</td>
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<td>10:22 am</td>
<td>Discussion</td>
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<tr>
<td>10:37 am–10:57 am</td>
<td>Symposium 2</td>
<td>Training Abroad for Orthopaedic Residents</td>
<td>Moderator: R Richard Coughlin, MD University of California San Francisco</td>
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<tr>
<td>10:57 am–12:16 pm</td>
<td>Paper Session 2</td>
<td>General Management of Musculoskeletal Injury</td>
<td>Moderators: Massimo M Morandi, MD; Patrick Yoon, MD</td>
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<td>11:05 am</td>
<td>Paper 11</td>
<td>Osseointegration as a Viable Treatment Option for Rehabilitation of Amputees</td>
<td>Munjed Al Muderis, MBBS, FRACS, FRCS (ORTHO) Advanced Orthopaedics, Sydney, Australia</td>
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<td>11:05 am</td>
<td>Paper 12</td>
<td>Blast Mediated Traumatic Amputation: Evidence Suggesting a New Injury Mechanism</td>
<td>James Singleton, MBBS; Neil M Walker, MBBS, MRCS; Iain E Gibb, MBBS, FRCS(Ed), FRCR; Anthony M Bull, PhD, DIC, BEng, CEng; Jon C Clasper, MBA, DPhil, DM, FRCS(Ortho) Ministry of Defence, Kingston Upon Thames, United Kingdom</td>
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<td>11:13 am</td>
<td>Paper 13</td>
<td>Secondary Intramedullary Nailing Following External Fixation: A Novel Surgical Approach to &quot;Nail&quot; The Regenerated Bone for Reconstruction of Complex Fractures and Segmental Bone Defects in Severe Limb Trauma</td>
<td>Gerald E Wozasek, MD; Markus Hofbauer, MD Clinic for Trauma Surgery, University of Vienna Medical School, Vienna, Austria</td>
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<td>11:21 am</td>
<td>Discussion</td>
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<td>11:29 am</td>
<td>Paper 14</td>
<td>Ultrasonographic Monitoring of Fracture Healing: Is This the End of Radiography in Fracture Follow-Up?</td>
<td>Sourabh Chachan Barsha Tudu, MBBS, MS; Biswajit Sahu, MBBS, MS, M Ch Sambalpur, Odisha, India</td>
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<tr>
<td>11:37 am</td>
<td>Paper 15</td>
<td>Effect of Chronic Heavy Smoking on Ankle Fracture Healing</td>
<td>Waseem Jerjes, MD, PhD; Hiang Boon Tan, MB, CHB; Peter V Giannoudis, MD; Leeds General Infirmary, London, United Kingdom</td>
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<td>11:45 am</td>
<td>Paper 16</td>
<td>Impact of Intraoperative 3D-Fluoroscopy on Functional Outcomes and Health-Related Quality in Open Reduction and Internal Fixation of Displaced, Intra-Articular Calcaneal Fractures</td>
<td>Dirk Stengel, MD; Nicolai Spranger, MD; Axel Ekkernkamp, MD; Kai Bauwens, MD; Michael Wich, MD Unfallkrankenhaus Berlin Klinik F. Unfallchirurgie, Berlin, Germany</td>
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<td>11:53 am</td>
<td>Paper 17</td>
<td>Results and Functional Outcome of Traumatic Secondary Arthrosis of The Ankle Joint Treated by Internal Arthrodesis</td>
<td>Marlon O Caulibaly, MD; Thomas A Schildhauer, MD; Dominik Seybold, MD; Sven Jung, MD; Jan Gessmann, MD University Hospital Bergmannsheil GMBH, Department of Traumatology, Ruhr-Univers, Bochum, Germany</td>
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<td>12:01 pm</td>
<td>Discussion</td>
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<td>12:16 pm</td>
<td>Lunch</td>
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<td>1:00 pm–2:19 pm</td>
<td>Paper Session 3</td>
<td>Fractures of the Upper Extremity and Hip</td>
<td>Moderators: Steven J Morgan, MD Jeffrey O Anglen, MD</td>
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<td>1:00 pm</td>
<td>Paper 18</td>
<td>Implantation of Carbon-Fibers-Peek Intramedullary Humeral Nail for Trauma and Pathological Fracture Fixation – A Multicenter, International Retrospective Accumulated Experience</td>
<td>Christoph Rangger, MD Krankenhaus Nordwest, Frankfurt, Germany</td>
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<td>1:08 pm</td>
<td>Paper 19</td>
<td>A Clinical Comparison of Parallel Versus Orthogonal Anatomical Precontoured Plating for Intracapsular Humerus Fractures</td>
<td>Ting Li, MD; Xiyuan Jiang, MD; Prof. Wang Manyi, MD Beijing Jishuitan Hospital China</td>
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<td>1:16 pm</td>
<td>Discussion</td>
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<td>1:24 pm</td>
<td>Paper 20</td>
<td>A Simple Way to Improve Hospital Medical Care for Hip Fracture Patients: Testing Protein Levels</td>
<td>Yael Sagy, MD; Ahuva Weiss-Meiliik, MD; Shani Gershtein, MD; Moshe Salai, MD; Ely Liviu Steinberg, MD Rihon-Lezion, Israel</td>
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<td>1:32 pm</td>
<td>Paper 21</td>
<td>An Investigation of 5563 Patients Aged Over 50 With Hip Fractures from Level 1 Trauma Center</td>
<td>Yeming Wang, MD; Wanfu Wei, MD Tianjin Hospital, Tianjin, China</td>
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1:40 pm Paper 22
Treatment of Pertrochanteric Fractures (AO/OTA 31-A1, A2 And A3): Without C-Arm Using Sign Hip
Professor Shahab-Uddin, FCPS; Faseeh Shahab, MBBS; Lewis G Zirkle, Jr, MD; Peshawar, Pakistan

1:48 pm Paper 23
Achieving Hip fracture Fixation Without Using Image Intensifier
Billy Thomson Haonga, MD* Muhimbili Orthopaedic Institute, Muhimbili Complex, Dar -se salaam, Tanzania

1:56 pm Paper 24
Pelvic Hemorrhage at CT After Blunt High-Energy Pelvic Trauma: Extent and Significance
Anna Totterman, MD; Narin Tiftikci, MD; Mats Beckman, MD; Anders Sundin, MD, Professor Karolinska University Hospital, Stockholm, Sweden

2:04 pm Discussion

2:19 pm – 3:25 pm Symposium 3 Guest Nation
Moderator: William G De Long, Jr, MD
Prof. Wang Manyi, MD Chinese Orthopaedic Association
Assessment of BMD of the Femor Head with QCT? Prof. Jiang Baoguo, MD
Coping with Escalating Volumes of Road Crashes in a Maturing Industrial Environment in China Prof. Wei Jie, MD

3:25 pm Break

3:45 pm – 4:50 pm Symposium 4
Combined Session with Basic Science Focus Forum
Building Networks: The Basics Moderators: Saam Morshed, MD, PhD; Paul Volberding, MD

3:45 pm Global Clinical Research: Why Do We Need It? Paul Volberding, MD
4:00 pm What Kind of Evidence is Needed to Change Practice or Policy? David Shearer, MD, MPH
4:10 pm Conducting International Clinical Research: What Resources are Necessary? Emil H Schemitsch, MD
4:20 pm Selecting the Right Study Design: Balancing Science and Resources Saam Morshed, MD, PhD
4:30 pm International Research Studies: How to Partner? Gerard P Slobogean, MD, MPH
4:40 pm Discussion

4:50 pm – 5:30 pm Paper Session 4
International Research Studies Moderators: Saam Morshed, MD, PhD; Paul Volberding, MD
4:50 pm International Registries: INORMUS (Invited Paper) Research Fellow, McMaster
4:56 pm – 5:02 pm Paper 20
Management Of Closed Femur Fractures With The SIGN Intramedullary Nail In Two Developing African Countries (Multicenter Observational Study) Kyle R Stephens, DO; Daniel Galat, MD; Duane Anderson, MD; Kiprono G Koech, MD; Paul Whiting, MD; Michael Mwachiro, MD; Douglas W Lundy, MD

5:02 pm – 5:08 pm Paper 21
The Design Of A Prospective Observational Study To Evaluate The Outcomes Of Operatively Treated Femoral Shaft Fractures In Sub-Saharan Africa (Single-Center Observational Study) David Shearer, MD; MPH, Edmund Eliezer, MD; Billy Thomson Haonga, MD; Saam Morshed, MD, PhD

5:08 pm – 5:14 pm International Randomized Control Trial: FLOW Kyle J Jeray, MD

5:14 pm – 5:30 pm Discussion

5:30 pm Adjourn

5:30 pm – 6:30 pm International Poster Reception
ALL International attendees are invited. Refreshments will be served.

* 2013 OTA Sign Scholar Recipient

* 2013 OTA Sign Scholar Recipient
Masters Level Trauma Coding Course

Wednesday, October 9, 2013

Margaret Maley, BSN, MS, Senior Consultant, KarenZupko & Associates, Inc.
J. Scott Broderick, MD, Course Chair

Attendance of this activity can earn up to 6 AMA PRA Category 1 Credits™

Course Description
Margaret Maley from KarenZupko & Associates, Inc. is back with a course you can’t afford to miss! Take this opportunity to attend a coding and reimbursement course designed specifically for orthopaedic trauma surgeons and their staff. The increased focus on documentation audits and looming implementation of ICD-10 makes this a course you must attend.

Do you or your staff question:
• How do I report debridements of an open fracture done on different days?
• What do I report if the resident sees the patient in the ER and I see him in the hospital the following day before surgery?
• How do I report debridements of an open fracture done on different days?
• What will I need to change in my description of fractures for ICD-10 implementation?
• Should we use a modifier 59 on this case?

Learning Objectives
Upon successful completion of the Evaluation and Management (E&M) Section, participants will be able to:
• Confidently report services in the ER that result in a hospital admission
• Know what modifier is required if you see a patient in the ER and take them urgently to the operating room
• Describe and document open fractures using the Gustilo Classification for ICD-10 diagnosis reporting
• Accurately document the level of service for your typical patient in the emergency room or office

Upon successful completion of the orthopaedic trauma procedural coding section, participants will be able to:
• Discuss what is included in global fracture care
• Describe how using a specific modifier can impact reimbursement
• Accurately report the application of external fixation, fracture debridement versus wound debridement, and the care of multiple fractures in the same session
• Correctly document and report subsequent procedures done during the “global period”
• Identify the difference between returning a patient to the operating room to treat a complication versus returning for an anticipated surgical procedure
• Report the services of surgical assistants and PAs.

About the Speaker
Margaret Maley brings 30 years of orthopaedic experience to her clients working with KarenZupko & Associates as a consultant and speaker for 17 years. With a B.S.N. from The University of Illinois and Master's degree from Rush University, Ms. Maley began her career in Chicago as a clinical nurse specialist managing several FDA studies. Moving to Houston in 1986, she transitioned to the business side of medicine. “Front-line” experience managing orthopaedic practices gives her unique insight into the challenges facing orthopaedic surgeons and their staff on a daily basis. She is acutely aware of the importance of correct coding and accurate documentation for proper reimbursement and to minimize the risk of audit. She is recognized by her peers as a skilled communicator and for being able to sort out difficult orthopaedic coding and reimbursement issues. Ms. Maley's fast paced humorous presentations make her a favorite of surgeons, administrators and staff.

Margaret has extensive experience working with private practices and academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for national organizations like the American Academy of Orthopaedic Surgeons, the Musculoskeletal Tumor Society, the American Association of Hip and Knee Surgeons, the Western Orthopaedic Association, the Gait and Clinical Movement Analysis Society, and the Pediatric Orthopaedic Society of North America.

Course Agenda
8:00 am – 12:00 pm
Registration

Evaluation and Management
• Level of Service documentation
  – History, Exam, Medical Decision Making
  – Can time be used to report a level of service?
• Category of service
• What is the Global Surgical Package and the Global Period
• Procedures done with E&M services (such as injections or cast applications)
• Unrelated E&M services in the Global Period
• ICD-10 coding and documentation for fractures

12:00 pm – 1:00 pm Lunch

Fracture Care Surgical Coding
• Unrelated Procedures (modifier 79)
• Staged Procedures (modifier 58)
  – Complicated Fractures
  – Debridements
• Treatment of Complications (modifier 78)
  – When is it a complication and how is it reported?
  – Using modifier 51 versus modifier 59
• Unusual service (modifier 22)
• Reporting unlisted procedures
**Young Practitioners Forum**  Preparing for a Successful Career

**Thursday, October 10, 2013**

Lisa K Cannada, MD, Chair

**Target Audience**
This course is designed for orthopaedic residents, fellows and young practitioners to promote career planning and development during residency and selection of best practice environment.

**Forum Objectives**
- Increase knowledge and understanding of the fellowship, job interviewing and negotiating processes
- Learn important tips for young practitioners in different practice settings
- Identify successful strategies for financial management
- Develop skills for a successful practice as a surgeon and teacher

**Attendees of this activity can earn up to 4 AMA PRA Category 1 Credits™.**

**Program**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:15 am</td>
<td>Registration&lt;br&gt;Continental Breakfast&lt;br&gt;Ballroom Foyer Level 1</td>
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<tr>
<td>6:30 am</td>
<td>Introduction: Trauma Profile for Young Practitioners&lt;br&gt;Lisa K Cannada, MD, Chair</td>
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<td>6:36 am</td>
<td>Tips for Approaching the Fellowship Match&lt;br&gt;Bryan W Ming, MD</td>
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<td>6:42 am</td>
<td>Getting the Most out of Your Fellowship&lt;br&gt;Milton L “Chip” Routt, Jr, MD</td>
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<td>6:51 am</td>
<td>What I need to Start My Job: A Wish List?&lt;br&gt;Academic; Non Academic&lt;br&gt;Raymond D Wright, Jr, MD; Cory A Collinge, MD</td>
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<tr>
<td>7:05 am</td>
<td>Tips for Improving Your Business IQ&lt;br&gt;Timothy J Bray, MD</td>
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<td>7:16 am</td>
<td>The View from the Other Side of the Desk: What an Employer Looks for in an Interview&lt;br&gt;Douglas W Lundy, MD</td>
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<tr>
<td>7:27 am</td>
<td>Panel Discussion: Getting What You Need from a Hospital&lt;br&gt;Clifford B Jones, MD; Aaron G Osborne, DO; Peter Althausen, MD</td>
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<td>7:53 am</td>
<td>Reflections: The Dark Side of Being an Employed Physician&lt;br&gt; Jake Heiney, MD</td>
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<td>7:59 am</td>
<td>Negotiating&lt;br&gt;M Bradford Henley, MD</td>
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<tr>
<td>8:20 am</td>
<td>Questions</td>
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<td>8:28 am</td>
<td>Break</td>
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<tr>
<td>8:41 am</td>
<td>The Value of Preoperative Planning&lt;br&gt;Matt L Graves, MD</td>
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<td>8:52 am</td>
<td>Becoming the “Captain of the Ship” in the OR&lt;br&gt;Timothy S Achor, MD</td>
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<tr>
<td>9:00 am</td>
<td>Tips for Being an Effective Teacher&lt;br&gt;Jaimo Ahr, MD</td>
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<tr>
<td>9:11 am</td>
<td>Getting Organized in Your Job&lt;br&gt;Jodi Siegel, MD</td>
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<td>9:22 am</td>
<td>Things You Never Thought of that Make a Difference&lt;br&gt;J Tracy Watson, MD</td>
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<td>9:35 am</td>
<td>Look Before You Jump&lt;br&gt;Troy H Caron, DO</td>
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<tr>
<td>9:40 am</td>
<td>Questions</td>
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<tr>
<td>9:47 am</td>
<td>Preparing for Medical Testimony for Your Patient&lt;br&gt;Gerald J Lang, MD</td>
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<tr>
<td>9:58 am</td>
<td>Tips for Personal Finance Success&lt;br&gt;Roy Sanders, MD</td>
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<tr>
<td>10:16 am</td>
<td>Keynote Address: Reflections on the Past and Preparing for the Future&lt;br&gt;Andrew R Burgess, MD</td>
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<tr>
<td>10:41 am</td>
<td>Wrap up and Questions</td>
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**11:00 am** Industry Lunch Symposium

PRE-REGISTRATION DEADLINE SEPTEMBER 3, 2013 (MAIL); SEPTEMBER 10, 2013 (ONLINE) – SEE PAGE 39
Thursday, October 10, 2013

1:00 pm Welcome and Donor Awards

1:20 pm – 2:50 pm Symposium 1
Evaluating Outcomes In the 21st Century
Mark S Vrhas, MD; Richard C Gerson, PhD; Thomas F Higgins, MD; Nan Rothrock, PhD

In 2004 the NIH funded PROMIS (Patient Reported Outcomes Measurement System) with the goal of creating a system of highly reliable, precise measures of patient–reported health status. Key components of this effort were to use Item Response Theory and Computer Adaptive Testing to increase measure accuracy while decreasing patient burden. This effort has been highly successful and measures created by PROMIS are likely to become standard across all fields of medicine. This symposium will explain the PROMIS initiative, the science behind the new measures, and how these measures may affect our specialty.

2:50 pm – 3:20 pm Break

3:20 pm – 4:46 pm Paper Session 1: Polytrauma/Pelvis/Post-Traumatic Reconstruction

Moderators: Pierre Guy, MD, MBA; H Claude Sagi, MD

3:20 pm Paper 28
Time To Definitive Operative Treatment Following Open Fracture Does Not Impact Development Of Deep Infection: A Prospective Cohort Of 736 Patients
Donald Weber, MD; Sukhdeep K Dulai, MD, MSc, FRCS (C); Joseph Bergman, MD; Richard E Buckley, MD; Lauren A Beaupre

3:26 pm Paper 29
Pain And PTSD Following Major Extremity Trauma: Results From The Metals Study
Renan Castillo, MS; Anthony Carlini; Ellen J MacKenzie, PhD

3:32 pm Paper 30
The Effectiveness Of Osseo-Integrated Prosthesis Compared With Socket Prosthesis After Transfemoral Amputation
Jan Paul M Froloke, MD, PhD; Henk Meent, MD, PhD; Maria TE Hopman, PhD

3:38 pm Discussion

3:43 pm Paper 31
Multiple Orthopaedic Procedures In The Initial Surgical Setting: When Do The Benefits Outweigh The Risks In Patients With Multiple System Trauma?
Heather A Vallier, MD; Benjamin R Childs; Nicholas Nahm; Timothy A Moore, MD

3:49 pm Paper 32
Early Appropriate Care: A Protocol To Standardize Resuscitation Assessment And To Expedite Fracture Care Reduces Hospital Stay And Enhances Revenue
Heather A Vallier, MD; Andrea Dolenc, BS; Timothy A Moore, MD

4:00 pm Paper 33
The Effect Of Surgical Treatment On Mortality After Acetabular Fracture In The Elderly: A Multicenter Study Of 451 Patients
Joshua L Gary, MD; Ibrahim Paryavi, MD; Steven D Gibbons, MD; Scott P Ryan, MD; Jordan Houston Morgan, BS; Michael J Weaver, MD; Adam J Star, MD; Robert O’Toole, MD

4:06 pm Paper 34
Acute Total Hip Arthroplasty Versus Open Reduction Internal Fixation For Acetabular Fractures Involving The Posterior Wall In Patients < 65 Years Old: A Matched Cohort Analysis
Carol Alice Lin, MA, MD; Jerald Westberg, BA; Andrew H Schmidt, MD

4:12 pm Paper 35
Patient-Reported Health After Operatively Treated Displaced Sacral Fractures: A 10-Year Follow-up
Aron Adelved, MD; Anna Tötterman, MD, PhD; Thomas Glott, MD; Helene L Seberg, PT, PhD; Jan Erik Madsen, MD, PhD; Olav Roise, MD

4:18 pm Discussion

4:23 pm Paper 36
Recombinant Human Morphogenetic Protein-2 (rhBMP-2) Versus Iliac Crest Autograft To Treat Tibia Nonunion: A Retrospective Multicenter Study
William T Obremeskey, MD, MPH

4:29 pm Paper 37
The Reamer Irrigator Aspirator (RIA) As A Device For Harvesting Bone Graft Compared With Iliac Crest Bone Graft (ICBG) Union Rates And Complications
John Dawson, MD; Peter Nowotarski; Dirk W Kiner, MD; Warren E Gardner, MD; Rachel Swafford

4:35 pm Paper 38
Dynamizations And Exchange Nailing: Success Rates And Indications
Jody Litrenta, MD; Paul Tornetta, III, MD; Cory A Collinge, MD; Heath A Vallier, MD; Clifford B Jones, MD, FACS; Christiane Gertrud Krupa; Reza Firoozabidi, MD; Kenneth A Egol, MD; Ross K Leighton, MD; Mohit Bhandari, MD, PhD, FRCS; Emil H Schemitsch, MD; David W Sanders, MD

4:41 pm Discussion

4:46 pm – 5:16 pm President’s Message: Standardization and Systems: Steps We Must Take (Together)
Andrew H Schmidt, MD

5:16 pm – 6:16 pm OTA Business Meeting

6:30 pm – 8:30 pm Welcome Reception
Friday, October 11, 2013

6:30 am – 7:45 am Break-outs

6:30 am Case Presentation
Orthopaedic Trauma Coding
Moderator: J Scott Broderick, MD
William R Creevy, MD

6:30 am Case Presentation
The Challenging Hip Fracture: Pearls and Pitfalls
Moderator: Amer J Mirza, MD
Darin Freiss, MD; Erik Kubik, MD; Edward A Perez, MD

6:30 am Case Presentation
Proximal Humerus ORIF – Advances in Fixation and Augmentation
Moderator: Clifford B Jones, MD
Michael J Gardner, MD; Samir Mehta, MD

6:30 am Case Presentation
2 Minutes / 2 Slides: Ankle Injuries Technical Tips and Tricks
Moderator: Pierre Guy, MD, MBA
Kenneth A Ego, MD; Timothy O White, MD; David W Sanders, MD; Paul Tornetta, III, MD

6:30 am Case Presentation
Distal Humerus Fractures: Tips and Tricks
Moderator: Utuk Kandemir, MD
Michael D McKee, MD; Milan K Sen, MD; John T Gorczyca, MD

6:30 am Skills Lab
(SL1) Fixation of Clavicle Fractures
Lab Leader: Gregory M Osgood, MD
Daren P Forward, MD; Julie Keller, MD; CDR Joseph Strauss, DO; Erik Hasenboehler, MD; David B Weiss, MD; Emil H Schemitsch, MD

6:30 am Skills Lab
(SL2) ORIF Distal Tibia and Fibula Fractures
Lab Leader: Matt L Graves, MD
TBD

7:00 am Poster Tour P1: Foot / Ankle / Pilon
Clifford B Jones, MD

8:00 am – 8:55 am Paper Session 2: Geriatric
Moderators: Kyle J Jeray, MD; Michael D McKee, MD

8:00 am Paper 39
Association Between Type Of Surgery And Perioperative Acute Myocardial Infarction In Elderly Hip Fracture Patients
Nathalie Helen Urrunaga, MD, MS; Amelia C Watkins, MD; Robert Sterling, MD; Mary L Forte, PhD

8:06 am Paper 40
Effect Of Vitamin K On Surgical Timing After Hip Fracture In Patients On Warfarin
Jacob Lantry, MD; John T Gorczyca, MD

8:12 am Paper 41
Healing Time And Complications In Operatively Treated Atypical Femur Fractures Associated With Bisphosphonate Use: A Multicenter Series
Yelena Bogdan, MD; Paul Tornetta, III, MD; Thomas A Einhorn, MD; Pierre Gu, MD, MBA; Lise Leveille, MD; Juan De Dios Robinson, BA, MBBS, MSc, FRC; Nikkole M Haines, MD, BS; Daniel S Horwitz, MD; Emil H Schemitsch, MD; H Claude Sagi, MD; Daniel Stahl, MD; Megan Brady, MD; David W Sanders, MD; Thomas F Higgins, MD; Michael S Kain, MD; Cory A Collinge, MD; Stephen A Kottmeier, MD; Darin M Friess, MD

8:18 am Discussion
8:23 am Paper 42
Rehospitalization After Operatively Treated Hip Fractures: Targets For Intervention
Christopher M McAndrew, MD; Michael J Gardner, MD; Ellen F Binder; William M Ricci, MD; Eric J Lenze

8:29 am Paper 43
Can An Evidence-Based Treatment Algorithm For Intertrochanteric Hip Fractures Maintain Quality At A Reduced Cost?
Kenneth A Ego, MD; Alejandro Marcano, MD; Lambert Lewis, BA; Nirmal C Tejwani, MD, FRCS; Toni M McLaurin, MD; Roy Davidovitch, MD

8:35 am Paper 44
Intramedullary Versus Extramedullary Fixation Of Unstable Intertrochanteric Hip Fractures: A Prospective Randomized Control Study
Rudolph Reindl, MD; Edward J Harvey, MD; Gregory K Berry, MD; Canadian Orthopaedic Trauma Society

8:41 am Paper 45
Is Immediate Weight Bearing Safe For Periprosthetic Distal Femur Fractures Treated With Locked Plating?
Wade R Smith, MD; Jason Stoneback, MD

8:47 am Discussion

8:55 am Guest Nation Intro
Andrew H Schmidt, MD

8:59 am Best International Forum Paper: TBD

9:07 am Guest Nation Presentation
Prof. Wang Manyi, MD
Chinese Orthopaedic Association
“Chinese Trauma Education”

9:15 am Border Lecture
Skeletal Trauma: Global Conundrum
Bruce D Browner, MD

8:45 am – 10:15 am Break
## Meeting Agenda (cont.)

### Friday, October 11, 2013 (cont.)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
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<tbody>
<tr>
<td>10:15 am</td>
<td><strong>Mini-Symposium</strong></td>
<td>How to Use the OTA Case Database at Your Institution</td>
<td>Moderator: Julie Agel, ATC</td>
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<tr>
<td>10:15 am</td>
<td><strong>Mini-Symposium</strong></td>
<td>Femoral Neck Fractures in Young Adults: Why are We Not “Fixing” These Better?</td>
<td>Moderator: Corey A Collinge, MD; Michael T Archdeacon, MD; Bradley R Merk, MD; Frank Liporace, MD</td>
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<tr>
<td>10:15 am</td>
<td><strong>Mini-Symposium</strong></td>
<td>Traumatic Limb Injuries Requiring Amputation: A Multidisciplinary Approach Using The Osteomyoplastic (Ertl) Technique</td>
<td>Moderator: William J Ertl, MD; Jonathan D Day, CPO; Carol P Dionne, PT, DPT, PhD, OCS; Jan Ertl, MD; James R Ficke, MD</td>
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<tr>
<td>10:15 am – 11:24 am</td>
<td><strong>Paper Session 3: Hip / Femur</strong></td>
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<td>Moderators: John T Ruth, MD; Thomas A DeCoster, MD</td>
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<td>10:15 am</td>
<td>Paper 46</td>
<td>A Prospective Randomized Trial Investigating The Effect Of The Reamer Irrigator-Aspirator (RIA) On The Volume Of Embolic Load And Respiratory Functions During Intramedullary Nailing Of Femoral Shaft Fractures</td>
<td>Milena (Lynn) Vicente, RN; Emil H Schemitsch, MD; Jeremy A Hall, FRSC; Michael D McKee, MD; Zachary A Morison; Niloofar Dehghan; Hans J Kreder, MD</td>
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<td>10:21 am</td>
<td>Paper 47</td>
<td>Morbid Obesity Increases The Risk Of Systemic Complications In Patients With Femoral Shaft Fractures</td>
<td>Stuart Deaderick, BS; Robert Francis Murphy, MD; John C Weinlein, MD</td>
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<td>10:27 am</td>
<td>Paper 48</td>
<td>Operative Versus Non-Operative Treatment Of Femoral Fractures In Spinal Cord Injury Patients</td>
<td>Julius A Bishop, MD; Paola Suarez, MPH; Lisa DiPonio, MD PhD; Doug Ota, MD, PhD; Catherine Curtin, MD</td>
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<td>10:33 am</td>
<td>Discussion</td>
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<td>10:38 am</td>
<td>Paper 49</td>
<td>Locked Plating Versus Retrograde Nailing For Distal Femur Fractures: A Multicenter Randomized Trial</td>
<td>Paul Tornetta, III, MD; Kenneth A Egol, MD; Clifford B Jones, MD, FACS; Janos P Ertl, MD; Brian H Mullins, MD; Ed Perez, MD; Cory A Collinge, MD; Robert Ostrum, MD; Catherine A Humphrey, MD; Sean Nork, MD; Michael J Gardner, MD; William M Ricci, MD; Laura S Phieffer, MD; David C Teague, MD; William J Ertl, MD; Christopher T Born, MD; Alan Zonno, MD; Judith A Siegel, MD; H Claude Sagi, MD; Andrew N Pollak, MD; Andrew H Schmidt, MD; David C Templeman, MD; Stephen A Sem, MS; Darin M Friess, MD; Hans Christoph Pape</td>
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<td>10:44 am</td>
<td>Paper 50</td>
<td>Distal Locking In Femoral And Tibial Nailing Of 228 Patients Without X-Ray Guidance: A Multicenter Study</td>
<td>Ramon B Gustilo, MD; Arturo C Canete, MD; Godofredo V Dungca, MD; Regidor B De Leon, MD; Daniel V Dungca, MD; Jerome B Atupan, MD; Joaquin C Pandanan, MD; Wilfredo B Pacheco, MD; Abigail T Jao, BS, MEM-BME</td>
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<td>10:50 am</td>
<td>Paper 51</td>
<td>A Prospective Randomized Control Trial Of Fixation Of Intertrochanteric Fractures: Compression Hip Screw Versus Third Generation Long Cephalomedullary Nail</td>
<td>Diana Kennedy, MBBS; Cameron Cooke, MD; Lloyd (Doug) King, FRACS (ortho); Mark Dekkers, FRACS (ortho)</td>
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<td>10:56 am</td>
<td>Discussion</td>
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<td>11:01 am</td>
<td>Paper 52</td>
<td>Femoral Neck Shortening Impairs Gait Pattern And Muscle Strength After Internal Fixation Of A Femoral Neck Fracture</td>
<td>Stephanie Zielinski, MD; Noël LW Keijers; Stephan PE Praet; Martin J Heetveld; Mohit Bhandari, MD, PhD, FRCCS; Jean Pierre Wissens; Peter Patka; Esther MM Van Lieshout</td>
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<td>11:07 am</td>
<td>Paper 53</td>
<td>Implication Of Subgrouping In Valgus Femoral Neck Fractures: Comparison Of 31-B1.1 With 31-B1.2 Fracture In OTA Classification</td>
<td>Kyu-Hyun Yang, MD; Hyung-Kyeun Song; Hyun-Choel Oh; Yougun Won</td>
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<tr>
<td>11:13 am</td>
<td>Paper 54</td>
<td>Fixation Of Displaced Femoral Neck Fractures In Young Adults: Fixed Angle Devices Or Pauwel Screws</td>
<td>C Max Hoshino, MD; Matthew Christian; Robert V O’Toole, MD; Theodore T Manson, MD</td>
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<td>11:19 am – 11:24 am</td>
<td>Discussion</td>
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<td>11:24 am – 12:30 pm</td>
<td>Lunch</td>
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</table>
### Session 1: 11:35 am – 12:20 pm

**Poster Tour**
- **(P2)** Upper Extremity / Wrist / Hand  
  Michael D McKee, MD
- **(P3)** Pelvis and Acetabulum  
  Paul Tornetta, III, MD

### Session 2: 12:30 pm – 2:00 pm

**Break-outs**
- **12:30 pm** Skills Lab  
  (SL3) SIGN  
  Lab Leader: Lewis G Zirkle, Jr, MD  
  Innocent Chiedu Ikem (Inno Ikem), MD  
  Billy Thomson Hoanga, MD; Robert S Schultz, MD;  
  Paul Whitling, MD; Kyle R Stephens, DO;  
  Frederic B Wilson, Jr, MD; John W Staeheili, MD;  
  Prof. Shabah-uddin, MD; Faseeh Shahab, MD
- **12:30 pm** Skills Lab  
  (SL4) IM Fixation of Proximal Tibial Fractures  
  Lab Leader: Roy Sanders, MD  
  Anthony S Rhorer, MD; Paul Tornetta, III, MD;  
  Joshua Langford, MD; William M Ricci, MD
- **12:30 pm** Skills Lab  
  (SL5) Knee or Ankle Spanning Ex-Fix  
  Lab Leader: Edward A Perez, MD  
  Matthew I Rudloff, MD; Robert D Zura, MD;  
  Amer J Mirza, MD; Hassan R Mir, MD
- **12:30 pm** Mini-Symposium  
  Contemporary Debates in Orthopaedic Trauma  
  Moderator: Michael Suk, MD, JD  
  Samuel G Agnew, MD; Bruce D Browner, MD  
  Lisa K Cannada, MD; Clifford B Jones, MD;  
  A Alex Jahangir, MD; Douglas W Lundy, MD;  
  Theodor Toan Le, MD; Samir Mehta, MD;  
  Manish K Sethi, MD; Philip R Wolinsky, MD
- **12:30 pm** Mini-Symposium  
  Financial Implications of Increasing ACS  
  Trauma Level: Where does Orthopaedic Trauma Surgeon Fit into the Equation?  
  Moderator: Timothy J Bray, MD  
  Peter Althausen, MD; Austin Hill, MD, MPH;  
  Roy Sanders, MD; Mike Williams, MBA

### Session 3: 12:30 pm – 1:40 pm

**Symposium 2**
- **Assessment of Fracture Repair**  
  Moderators: Emil H Schemitsch, MD; Theodore Miclau, III, MD
  - **12:30 pm** What is the Problem and is there a Consensus?  
    Michael D McKee, MD
  - **12:40 pm** Current Options for Determining Union  
    Saam Morshed, MD, PhD
  - **12:50 pm** What is the Role for Functional Outcomes?  
    Robert V O'Toole, MD
  - **1:00 pm** Are Fracture Healing Trials a Thing of Past:  
    The Challenge of FDA  
    Paul Tornetta, III, MD
  - **1:10 pm** Focusing Our Efforts: Challenging Healing Problems, but What Will the Answers Be?  
    Michael J Bosse, MD
  - **1:20 pm** Discussion

### Session 4: 1:40 pm – 2:04 pm

**Paper Session 4: Basic Science**
- **Moderators:** Theodore Miclau, III, MD; Emil H Schemitsch, MD
  - **1:40 pm** Paper 55  
    Is There An International Consensus How To Assess Fracture Healing Based On Clinical And Radiological Findings?  
    Wojciech Michal Glinkowski, MD, PhD; Jakub Janowicz, MD
  - **1:46 pm** Paper 56  
    Any Cortical Bridging Predicts Healing Of Tibial Shaft Fractures  
    William Lack; James Starman, MD; Rachel Seymour, PhD; Michael Bosse, MD; Madhav Karunakar, MD; Stephen Sims, MD; James Kellam, MD
  - **1:52 pm** Paper 57  
    Ultrasonographic Monitoring Of Fracture Healing: Is This The End Of Radiography In Fracture Follow-ups?  
    Sourabh Chachan; Barsha Tudu, MBBS, MS; Biswajit Sahu, MBBS, MS, M Ch

### Session 5: 2:04 pm – 2:30 pm

**Break-outs**
- **2:04 pm** Mini-Symposium  
  Technical Tips in 3 and 4-Part Proximal Humerus ORIF  
  Moderator: Utuk Kandemir, MD  
  John T Goryczka, MD; Milan K Sen, MD;  
  Michael J Gardner, MD; Michael D McKee, MD
- **2:04 pm** Mini-Symposium  
  How to Establish and Run a Fragility Fracture Program  
  Moderator: James A Goulet, MD  
  Clifford B Jones, MD; Kyle J Jeray, MD;  
  Joseph M Lane, MD; Marc F Swiontkowski, MD
- **2:04 pm** Mini-Symposium  
  Healthcare Systems and Trauma: A 360 Degree World View for the Orthopaedic Trauma Surgeon  
  Moderator: Manish K Sethi, MD  
  James R Ficke, MD; A Alex Jahangir, MD;  
  Samir Mehta, MD
Friday, October 11, 2013 (cont.)

2:30 pm – 4:07 pm Paper Session 5: Knee/Tibia

Moderators: David W Sanders, MD
David P Barei, MD

2:30 pm Paper 58
Are Locked Plates Needed For Split Depression Tibial Plateau Fractures (OTA Type 41B)?
Michelle Abghari, BS; Alejandro Marcano, MD;
Roy Davidovitch, MD; Sanjit Reddy Konda, MD; Kenneth A Egol, MD

2:36 pm Paper 59
Inflammatory Cytokine Response Following Tibial Plateau Fracture Does Not Correlate With Fracture Grading Of “Low Versus High Energy”
Justin Haller, MD; Thomas F Higgins, MD; Erik Kubiak, MD

2:42 pm Discussion

2:47 pm Paper 60
Fix It Or Discard It? A Retrospective Review Of Functional Outcomes After Surgically Treated Patella Fractures Comparing ORIF With Partial Patellectomy
Nicholas Bonnain, MD; Chris Casstevens, MD; Michael T Archdeacon, MD

2:53 pm Paper 61
No Difference In Infection, Compartment Syndrome, Or Secondary Procedures In Early Versus Delayed Spanning External Fixation For High-Energy Tibial Plateau And Plafond Fractures
Justin Haller, MD; David Holt; Erik Kubiak, MD; Thomas F Higgins, MD

2:59 pm Discussion

3:04 pm Paper 62
Intramedullary Nailing With An Internal Compression Device For Transverse Tibial Shaft Fractures Decreases Time To Union When Compared To Traditional “Backslapping” And Dynamic Locking
Michael J Beltran, MD; Christopher James; H Claude Sagi, MD

3:10 pm Paper 63
The Effect Of Postoperative Weight-Bearing On Tibia Fractures Treated With Intramedullary Nailing: A Prospective Randomized Trial
Steven C Gross, MD; David Taormina; Kenneth A Egol, MD; Nirmal C Tejwani, MD, FRCS

3:16 pm Paper 64
Does A 6-Month Wait Before Reoperation Improve Tibial Nonunion Rates?: A Comparative Examination Of Patients Not Enrolled In SPRINT
Carol Alice Lin, MA, MD; SPRINT Investigators

3:22 pm Discussion

3:27 pm Paper 65
Defining The Lower Limit Of A “Critical Bone Defect” In Open Diaphyseal Tibia Fractures
Nikkole M Haines, MD, BS; William Lack; Rachel Seymour, PhD; Michael J Bosse, MD

3:33 pm Paper 66
Alignment After Intramedullary Nailing Of Distal Tibia Fractures Without Fibula Fixation
Anthony De Giacomo, MD; William R Creevy, MD; Paul Tornetta, III, MD

3:39 pm Paper 67
Outcomes Of The Patients With Cultured Pathogens At The Time Of Nonunion Surgery
David P Taormina, MS; James H Lee, BE; Alejandro I Marcano, MD; Raj Karia; Kenneth A Egol, MD

3:45 pm Discussion

3:50 pm Paper 68
Acute Compartment Syndrome: Where Pressure Fails Ph Succeeds
Kirsten Elliott, FRCS (ortho), MD; Alan Johnstone, FRCS

3:56 pm Paper 69
Interobserver Reliability In The Measurement Of Lower Leg Compartment Pressures
Thomas M Large, MD; Julie Agel, ATC; Daniel J Holtzman, MD; Stephen K Benirschke, MD; James C Krieg, MD

4:02 pm Discussion
Pre-registration deadline: September 3, 2013 (mail); September 10, 2013 (online) – see Page 39

Annual Meeting

Saturday, October 12, 2013

6:30 am – 7:45 am Break-outs

7:00 am Poster Tour

8:00 am – 9:30 am Symposium 3

The Operative versus Non-Operative Treatment Of Common Upper Extremity Injuries: What Does Evidence-Based Medicine Tell Us?

Discussion

9:30 am – 10:00 am Break
Meeting Agenda (cont.)

Saturday, October 12, 2013 (cont.)

10:00 am – 11:30 am Break-outs

Mini-Symposium

Saturday, October 12, 2013 (cont.)

10:00 am

Mini-Symposium

Saturday, October 12, 2013 (cont.)

10:00 am

Mini-Symposium

Saturday, October 12, 2013 (cont.)

10:00 am – 11:26 am Paper Session 7: Foot and Ankle

Moderators: Robert V O'Toole, MD; Christopher M Doro, MD

10:00 am

Paper 76

Open Reduction And Internal Fixation Compared With Primary Subtalar Fusion For Treatment Of Sanders Type IV Calcaneal Fractures: A Randomized Multicentre Clinical Trial

Richard E Buckley, MD; Jeffrey Poon, MBBS; Karel Fasbender; Rogier Steins; Khitish Mohanty; Elizabeth Oddone Paolucci, PhD

10:06 am

Paper 77

Combined Approaches Increases Nonunion In Tibial Pilon Fractures

Paul M Balthrop, MD; Daniel S Chan; David Glassman; Brian White

10:12 am

Paper 78

Long-term Follow-up Of High-Energy Pilon Fractures: A Prospective Comparison Of Locked Plates Versus Non-Locked Plates

Theodore Toan Le, MD; Albert D'Heurle, MD; Namdar Kazemi, MD; Michael T Archdeacon, MD; John D Wyrick, MD

10:18 am

Discussion

10:23 am

Paper 79

Early Weight-Bearing And Mobilization Versus Non-Weight-Bearing And Immobilization After Open Reduction And Internal Fixation Of Unstable Ankle Fractures: A Randomized Controlled Trial

Niloofar Dehghan; Richard J Jenkinson, MD; Michael D McKee, MD; Emil H Schemitsch, MD; Aaron Nauth, MD; Jeremy A Hall, FRCSC; David J Stephen, MD; Hans J Kreder, MD

10:29 am

Paper 80

Does The Muller AO Classification System For Ankle Fractures Correlate More Closely To The Mechanism Of Injury Than The Lauge-Hansen System?

Edward K Rodriguez, MD, PhD; John Y Kw, MD; Lindsay Herder, BA; Paul T Appleton, MD

10:35 am

Paper 81

The Quality And Utility Of Routine Immediate Postoperative Radiographs Following Ankle Fracture Surgery

Elizabeth Martin, MD; Sara Lyn Miniaci-Coxhead, MD; Joshua G Hunter, MD; John T Gorczyca, MD; Jonathan J Gross, MD; Catherine A Humphrey, MD; John P Ketz, MD

10:41 am

Discussion

10:46 am

Paper 82

A Prospective Randomized Multicentric Trial Comparing A Static Implant To A Dynamic Implant In The Surgical Treatment Of Acute Ankle Syndesmosis Rupture

Stéphane Pelet, MD, PhD, FRCSC; Mélissa Laf lamme; Mark Glazebrook; Michel Van Bekerom; Étienne Belzile; Luc Bédard

10:52 am

Paper 83

The Fate Of The Fixed Syndesmosis Over Time

Scott Koenig; Elisabeth Gennis, MD; Deirdre Rodericks, BS; Peter Otlans; Paul Tornetta, III, MD

10:58 am

Paper 84

Does Syndesmotic Injury Have A Negative Effect On Functional Outcomes?

A Multicenter Prospective Evaluation

Jody Litrenta, MD; Paul Tornetta; Laura S Phieffer, MD; Clifford B Jones, MD, FACS; Janos P Ertl, MD; Brian H Mullis, MD; Kenneth A Egol, MD; Michael J Gardner, MD; William M Ricci, MD; Ross K Leighton, MD

11:04 am

Discussion

11:09 am

Paper 85

Stress Ankle Radiographs And Predictability Of Deltoid Ligament Injury In A Supination-External Rotation Cohort

Patrick Schottel, MD; Marshall B Berk, MD; Milton TM Little, MD; Matthew Garner; Jacqueline Birnbaum; David L Helfet, MD; Dean G Lorich, MD
11:15 am Paper 86
Anatomical Strategy For Fixation Of Supination External Rotation Type IV Equivalent (SER IV E) Ankle Fractures
Milton TM Little, MD; Marschall B Berkes, MD; Patrick Schottel, MD; Matthew Robert Garner, MD; Lionel Enrique Lazaro; Jacqueline F Birnbaum, BA; David L Helfet, MD; Dean G Lorich, MD

11:21 am Discussion

11:26 am – 12:30 pm Lunch

11:40 am – 12:25 pm Poster Tour
(P5) Geriatric
William T Obremskey, MD

11:40 am – 12:25 pm Poster Tour
(P6) General Interest
Lisa K Cannada, MD

12:30 pm – 2:00 pm Break-outs

12:30 pm Mini-Symposium
Management of Pediatric Trauma Urgencies / Emergencies
Moderator: David A Podeszwa, MD; Christine A Ho, MD; Anthony I Riccio, MD; Lane Wimberly, MD

12:30 pm Mini-Symposium
Rib Fracture Fixation in 2013: Lunatic Fringe or State of the Art?
Moderator: Michael D McKee, MD; Peter Althausen MD; Noloofar Dehghan, MD; Aaron Nauth, MD; Morad Hameed, MD; Emil H Schenmlschn, MD; Gerard P Slobogean, MD

12:30 pm Orthopaedic Surgeons Taking Ownership of Extremity Trauma: Soft Tissue Coverage
Moderator: Christopher M McAndrew, MD; Daniel A Osei, MD; Martin I Boyer, MD; Duretti Fufa, MD; David A Volgas, MD

12:30 pm – 1:56 pm Paper Session 8: Topics of General Interest
Moderators: Thomas F Higgins, MD; Matt L Graves, MD

12:30 pm Paper 87
Utilizing The ASA Score As A Predictor Of 90-Day Perioperative Readmission In Patients With Isolated Orthopaedic Trauma Injuries
Vasanth Sathiyakumar, BA; Aaron Yengo-Kahn, BS; Harrison F Kay, BS; R Adams Cowley; Young M Lee; Jesse M Ehrenfeld, MD, MPH; William T Obremskey, MD, MPH; Manish K Sethi, MD

12:36 pm Paper 88
Do Surgeons Know The Cost Of Orthopaedic Trauma Implants? A Multicenter Study Of 216 Surgeons
Kanu Okike, MD; Robert V O’Toole, MD; Andrew N Pollak, MD; Julius A Bishop, MD; Christopher M McAndrew, MD; Samir Mehta, MD; William Wood Cross, MD; Grant Garrigues, MD; Mitchel B Harris, MD; Christopher T LeBrun, MD

12:42 pm Paper 89
Does Fracture Care Make Money For The Hospital? An Analysis Of Hospital Revenue And Cost For Treatment Of Common Fractures
Conor Klewenko, MD; Robert V O’Toole, MD; Jeromie Ballreich, MHS; Andrew N Pollak, MD

12:48 pm Discussion

12:53 pm Paper 90
Sleep Disturbance Following Fracture Is Related To Emotional Well Being Rather Than Functional Result
Brandon S Shulman, BA; Frank Liporace; Roy Davidovich, MD; Raj Karia; Kenneth A Egol, MD

12:59 pm Paper 91
Anxiety And Depression In The Etiology Of Chronic Pain: Results From A Two-Year Cohort Study Of Trauma Patients
Renan Castillo, MS; Stephen Wegener, PhD; Sara Elizabeth Heins, BA; Jennifer Haythornthwaite; Ellen J MacKenzie, PhD; Michael J Bosse, MD

1:05 pm Paper 92
Impact Of Early Postoperative Pain On Outcomes 1-Year Following Traumatic Orthopaedic Injury
Kristin Archer, PhD, DPT; Sara Elizabeth Heins, BA; Christine Abraham; William T Obremskey, MD, MPH; Stephen Wegener, PhD; Renan Castillo, MS

1:11 pm Discussion

1:16 pm Paper 93
Nature’s Wrath – The Effect Of Daily Weather Patterns On Postoperative Pain Following Orthopaedic Trauma
Brandon S Shulman, BA; Alejandro I Marciano, MD; Roy Davidovich, MD; Raj Karia; Kenneth A Egol, MD

1:22 pm Paper 94
Impact Of Patient Comprehension On Postoperative Complications In An Orthopaedic Trauma Population
Hassan R Mir, MD; Rishin J Kadakia, BSc; James M Tsahakis, BA; Neil M Issar, BSc; Harrison F Kay, BS; Kristin Archer, PhD, DPT

1:28 pm Paper 95
Stress-Hyperglycemia Is Associated With Surgical Site Infection: A Prospective Observational Study Of Non-Diabetic, Non-Critically Ill Orthopaedic Trauma Patients
Justin E Richards; Julie Hutchison, ACNP; Kaushik Mukherjee, MD, MSCI; A Alex Jahangir, MD; Hassan R Mir, MD; Jason M Evans, MD; Aaron M Perdue, MD; William T Obremskey, MD, MPH; Manish K Sethi, MD; Addison K May, MD

1:34 pm Discussion

1:39 pm Paper 96
Effectiveness Of Vitamin D Therapy In Orthopaedic Trauma Patients
Brett D Crist, MD, FACS; Daniel S Robertson, MD; Tyler Jenkins; Yvonne M Murtha, MD; Gregory J Della Rocca, MD, PhD, FACS; David A Volgas, MD; James P Stannard, MD

1:45 pm Paper 97
Are Routine Two Week Postoperative Radiographs Useful?
Brian Mosier; Gregory T Altman, MD; Lisa A Taitsman, MD

1:51 pm Discussion

1:56 pm – 2:26 pm Break
Saturday, October 12, 2013 (cont.)

2:26 pm – 3:55 pm Paper Session 9: Upper Extremity

Moderators: Stephen A Kottmeier, MD; Clifford B Jones, MD

2:26 pm Paper 98
Non-Operative Treatment Of Closed Extra-Articular Distal-Third Diaphyseal Fractures Of The Humerus: A Comparison Of Functional Bracing And Long Arm Casting
David Saper, MD; Chris Swellengrebel; Andrew Jawa; David Ring; Ryan Shin; Paul Yi

2:32 pm Paper 99
Functional Outcome Scores Of Humeral Shaft Fractures In Patients Treated Non-Operatively Compared To Those Treated Surgically
Edward Shields, MD; Michael Maceroli, MD; Leigh Sundem; Sean Childs; Adrian Hadiano; Catherine A Humphrey, MD; Jonathan M Gross, MD; John P Ketz, MD; John T Gorczyca, MD

2:38 pm Paper 100
A Prospective Randomized Study Of Operative Treatment For Non-Comminuted, Humeral Shaft Fractures- Open Plating Versus Minimal Invasive Plate Osteosynthesis (MIPO)
Jung Jae Kim, MD; Young-Soo Byun; Chang-Wug Oh, MD; Kichul Park, PhD; Ji Wan Kim

2:44 pm Discussion

2:49 pm Paper 101
Upright Compared To Supine Radiographs Of Clavicle Fractures: Does Patient Positioning Affect Displacement?
Jonathon David Backus; David J Merriman, MD; Christopher M McAndrew, MD; Michael J Gardner, MD; William M Ricci, MD

2:55 pm Paper 102
Can Complications Of Locked Plating About The Proximal Humerus Fractures Be Minimized? The Effect Of The Learning Curve
Kenneth A Egol, MD; Brandon S Shulman, BA; Crispin C Ong; David P Tavormina, MS; Raj Karia; Joseph D Zuckerman, MD

3:01 pm Paper 103
Minimally Displaced Radial Head / Neck Fractures (Mason Type-I, OTA Types 21A2.2 And 21B2.1): Are We “Over Treating” Our Patients?
Brandon S Shulman, BA; James H Lee, BE; Frank Liporace; Kenneth A Egol, MD

3:07 pm Discussion

3:12 pm Paper 104
PROMIS Physical Function Computer Adaptive Test Compared To Other Upper Extremity Outcome Measures In The Evaluation Of Patient Outcomes Following Proximal Humerus Fractures In Patients Over 60
Jordan Houston Morgan, BS; Kanu Okike, MD; Michael A Kallen, PhD, MPH; Mark S Vrahas, MD

3:18 pm Paper 105
Pain Exposure Physical Therapy Versus Conventional Therapy In Patients With Complex Regional Pain Syndrome Type 1: A Randomised Controlled Trial
Jan Paul M Froike, MD, PhD; Karlijn J Barnhoorn, MD; Henk Van de Meent, MD, PhD; Robert TM Van Dongen, MD, PhD; Frank PAJ Klomp; Hans JMM Groenewoud, MSc; Ria MWG Nijhuis-vanderSanden, PhD

3:24 pm Paper 106
When Do Distal Radius Fractures Most Likely Displace And When Do They Stop Moving; Long-Term Follow-up Of Closed Reduction And Casting
Andy Jawa, MD; Joey Lamartina, MD; Paul Tometta, III, MD

3:30 pm Discussion

3:35 pm Closing Remarks

3:40 pm Adjourn
2013 Guest Nation: China

The OTA is honored to welcome China as the 2013 Guest Nation. We are pleased to have the opportunity for collaboration with our Chinese colleagues, and a chance to recognize their contributions and achievements.

Representatives from the Chinese Orthopaedic Trauma Society will participate in a symposium at the International Orthopaedic Trauma Care Forum on Wednesday, October 9, and will also speak at the Annual Meeting about Chinese Trauma Education.

The Guest Nation program was initiated in 2011 in recognition of the importance and benefits of sharing knowledge and experience with international colleagues.

International Poster Reception

Wednesday October 9, 2013
5:30 pm – 6:30 pm
All International attendees are welcome to attend.

Women in Orthopaedic Trauma Luncheon

Kathy Cramer

Memorial Luncheon

Friday October 11,
11:30 am – 12:30 pm
Leslie J Gullahorn, MD and Laura S Phieffer, MD
(Registration / ticket required)

New Member Luncheon

Friday October 11, 2013
11:30 am – 12:30 pm
Guest Speakers:
Robert A Probe, MD
Robert A Winquist, MD (invited)
All new and prospective members invited.

Poster Viewing Hours:

Thursday, October 10, 1:00 pm – Saturday, October 12, 1:30 pm
Don’t miss the opportunity for a guided poster tour at this year’s Annual Meeting. Registration required and space is limited. See page 35 for details.

E-Posters

Run out of time for the posters? No problem… visit the OTA website to view 2013 Annual Meeting E-Posters.

Please share the following excellent educational opportunity with your residents.

Comprehensive Fracture Course for Residents

October 9 – 11, 2013
Fairmont Scottsdale Princess
Chair: Michael T Archdeacon, MD
Co-Chair: Kyle J Jeray, MD
“It would be difficult to match the collective knowledge, experience, and commitment to teaching of this year’s outstanding faculty!”
Visit www.ota.org for the preliminary program and registration.

Exhibit Hours:

Thursday: 2:30 pm – 5:00 pm
Friday: 9:00 am – 5:00 pm
Saturday: 9:00 am – 1:30 pm
### Wednesday, October 9, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am – 8:40 am</td>
<td>Symposium 1: Hot Topics in Biomechanics: Hip Fracture Fixation</td>
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<tr>
<td>8:40 am – 9:38 am</td>
<td>Paper Session 1: Biomechanically-Directed Fixation: Hot Topics</td>
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<tr>
<td>9:38 am – 10:00 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:00 am – 11:10 am</td>
<td>Symposium 2: Inflammation</td>
</tr>
<tr>
<td>11:10 am – 11:44 am</td>
<td>Paper Session 2: Inflammation and Bone Healing</td>
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<tr>
<td>11:44 am – 12:45 pm</td>
<td>Lunch</td>
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<tr>
<td>12:45 pm – 1:55 pm</td>
<td>Symposium 3: Bone Grafting</td>
</tr>
<tr>
<td>1:55 pm – 3:24 pm</td>
<td>Paper Session 3: Bone Regeneration and Repair</td>
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<tr>
<td>3:25 pm – 3:45 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:45 pm – 4:50 pm</td>
<td>Symposium 4: Building Networks: The Basics</td>
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<td>4:50 pm – 5:30 pm</td>
<td>Paper Session 4: International Research Studies</td>
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**Grant Writing Workshop**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am – 9:45 am</td>
<td>Didactics: Mechanics of a Grant</td>
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<tr>
<td>9:45 am – 10:00 am</td>
<td>Break</td>
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<tr>
<td>10:00 am – 12:00 pm</td>
<td>Optimizing Your Chances of Success</td>
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<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Lunch</td>
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<tr>
<td>1:00 pm – 2:30 pm</td>
<td>Grants Library</td>
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<tr>
<td>2:30 pm – 3:00 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:00 pm – 4:00 pm</td>
<td>Mock Grant Review</td>
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<tr>
<td>4:00 pm – 4:30 pm</td>
<td>Mock Grant Review Discussion</td>
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**Orthopaedic Trauma Boot Camp**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am – 10:25 am</td>
<td>Orthopaedic Trauma Boot Camp Presentations</td>
</tr>
<tr>
<td>10:25 am – 10:45 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:45 am – 11:35 am</td>
<td>Orthopaedic Trauma Boot Camp Labs</td>
</tr>
<tr>
<td>11:35 am – 12:50 pm</td>
<td>Orthopaedic Trauma Boot Camp Presentations</td>
</tr>
<tr>
<td>12:50 pm – 1:30 pm</td>
<td>Lunch</td>
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<tr>
<td>1:30 pm – 2:50 pm</td>
<td>Orthopaedic Trauma Boot Camp Presentations</td>
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<tr>
<td>2:50 pm – 3:10 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:10 pm – 4:30 pm</td>
<td>Orthopaedic Trauma Boot Camp Presentations</td>
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<tr>
<td>4:30 pm</td>
<td>Adjourn</td>
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**Coding Course**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>9:00 am – 12:00 pm</td>
<td>Evaluation and Management</td>
</tr>
<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Lunch</td>
</tr>
<tr>
<td>1:00 pm – 4:00 pm</td>
<td>Fracture Care Surgical Coding</td>
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**International Trauma Care Forum**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am – 7:35 am</td>
<td>Introduction</td>
</tr>
<tr>
<td>7:35 am – 8:05 am</td>
<td>Symposium 1: International Comparison of Orthopaedic Post-Graduate Training</td>
</tr>
<tr>
<td>8:05 am – 10:37 am</td>
<td>Paper Session 1: Fractures of the Lower Extremity</td>
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<tr>
<td>9:16 am – 9:31 am</td>
<td>Break</td>
</tr>
<tr>
<td>10:37 am – 10:57 am</td>
<td>Symposium 2: Training Abroad for Orthopaedic Residents</td>
</tr>
<tr>
<td>10:57 am – 12:16 pm</td>
<td>Paper Session 2: General Management of Musculoskeletal Injury</td>
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<tr>
<td>12:16 pm – 1:00 pm</td>
<td>Lunch</td>
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<tr>
<td>1:00 pm – 2:19 pm</td>
<td>Paper Session 3: Fractures of the Upper Extremity and Hip</td>
</tr>
<tr>
<td>2:19 pm – 3:25 pm</td>
<td>Symposium 3: Guest Nation</td>
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<tr>
<td>3:25 pm – 3:45 pm</td>
<td>Break</td>
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<tr>
<td>3:45 pm – 4:50 pm</td>
<td>Symposium 4: Building Networks: The Basics</td>
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<td>4:50 pm – 5:30 pm</td>
<td>Paper Session 4: International Research Studies</td>
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<tr>
<td>5:30 pm – 6:30 pm</td>
<td>International Poster Reception</td>
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### Thursday, October 10, 2013

**Basic Science**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am – 8:40 am</td>
<td>Symposium 5: Infection</td>
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<tr>
<td>8:40 am – 9:13 am</td>
<td>Paper Session 5: Musculoskeletal Infection</td>
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<tr>
<td>9:13 am – 9:30 am</td>
<td>Break</td>
</tr>
<tr>
<td>9:30 am – 10:40 am</td>
<td>Symposium 6: Stem Cell Therapies</td>
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<tr>
<td>10:40 am – 11:14 am</td>
<td>Paper Session 6: Stem Cells</td>
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<tr>
<td>11:14 am</td>
<td>Adjourn</td>
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**Young Practitioners Forum Presentations**

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 am – 8:28 am</td>
<td>Young Practitioners Forum Presentations</td>
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<tr>
<td>8:28 am – 8:41 am</td>
<td>Break</td>
</tr>
<tr>
<td>8:41 am – 10:41 am</td>
<td>Young Practitioners Forum Presentations</td>
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**Orthopaedic Trauma Boot Camp Presentations**

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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am – 8:50 am</td>
<td>Orthopaedic Trauma Boot Camp Presentations</td>
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<tr>
<td>8:50 am – 9:00 am</td>
<td>Break</td>
</tr>
<tr>
<td>9:00 am – 9:50 am</td>
<td>Orthopaedic Trauma Boot Camp Labs</td>
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<tr>
<td>9:50 am – 11:00 am</td>
<td>Orthopaedic Trauma Boot Camp Presentations</td>
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**Industry Lunch Symposia**

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<th>Time</th>
<th>Event</th>
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<tr>
<td>11:00 am – 12:45 pm</td>
<td>Arthrex; Orthofix; Zimmer Trauma; DePuy Synthes Trauma; Pacira Pharmaceuticals, Inc. [Box lunch provided.]</td>
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**Annual Meeting**

<table>
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00 pm – 1:20 pm</td>
<td>Welcome and Donor Awards</td>
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<tr>
<td>1:20 pm – 2:50 pm</td>
<td>Symposium 1: Evaluating Outcomes in the 20th Century</td>
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<tr>
<td>2:50 pm – 3:20 pm</td>
<td>Break</td>
</tr>
<tr>
<td>3:20 pm – 4:46 pm</td>
<td>Paper Session 1: Polytrauma/Pelvis/Post-Traumatic Reconstruction</td>
</tr>
<tr>
<td>4:46 pm – 5:16 pm</td>
<td>President’s Message</td>
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<tr>
<td>5:16 pm – 6:16 pm</td>
<td>OTA Business Meeting</td>
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<tr>
<td>6:30 pm – 8:30 pm</td>
<td>OTA Welcome Reception</td>
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Friday, October 11, 2013

6:30 am – 7:45 am  Case Presentations and Skills Labs
7:00 am – 7:45 am  Poster Tour
8:00 am – 8:55 am  Paper Session 2: Geriatric
8:55 am – 9:15 am  Guest Nation Talks
9:15 am – 9:45 am  Border Lecture: Bruce D Browner
9:45 am – 10:15 am  Break
10:15 am – 11:45 am  Mini-Symposia
10:15 am – 11:24 am  Paper Session 3: Hip/Femur
11:24 am – 12:30 pm  Lunch (Women in Orthopaedic Trauma Luncheon and New Member Luncheon)

11:35 am – 12:20 pm  Poster Tours
12:30 pm – 2:00 pm  Mini-Symposia and Skills Labs
12:30 pm – 1:40 pm  Symposium 2: Assessment of Fracture Repair
1:40 pm – 2:04 pm  Paper Session 4: Basic Science
2:04 pm – 2:30 pm  Break
2:30 pm – 4:00 pm  Mini-Symposia
2:30 pm – 4:07 pm  Paper Session 5: Knee/Tibia
4:07 pm – 4:53 pm  Paper Session 6: Pediatrics and Spine
5:30 pm – 6:30 pm  Military Reception

Saturday, October 12, 2013

6:30 am – 7:45 am  Case Presentations and Skills Lab
7:00 am – 7:45 am  Poster Tour
8:00 am – 9:30 am  Symposium 3: The Operative Versus Non-Operative Treatment of Common Upper Extremity Injuries: What does Evidence-Based Medicine Tell Us?
9:30 am – 10:00 am  Break
10:00 am – 11:30 am  Mini-Symposia
10:00 am – 11:26 am  Paper Session 7: Foot and Ankle
11:26 am – 12:30 pm  Lunch
11:40 am – 12:25 pm  Poster Tours
12:30 pm – 2:00 pm  Mini-Symposia
12:30 pm – 1:56 pm  Paper Session 8: Topics of General Interest
1:56 pm – 2:26 pm  Break
2:26 pm – 3:35 pm  Paper Session 9: Upper Extremity
Orthopaedic Trauma for NPs and PAs

Michael T Archdeacon, MD; Clifford B Jones, MD; Daniel J Coll, MHS, PA-C; Keith Zurmehly, PA-C, Program Chairs

Target Audience
This course is intended for PAs and NPs who are practicing in orthopaedics inpatient/outpatient or caring for orthopaedic injuries in ER/UC/General Trauma Services.

The Physician Assistant Review Panel is pleased to award a maximum of 20.25 hours of AAPA Category 1 CME Credit to the program entitled Orthopaedic Trauma for NP’s and PA’s provided by the Orthopaedic Trauma Association.

Thursday, October 10, 2013

1:00 pm – 2:30 pm The Polytraumatized Patient
Moderator: Raymond D Wright, Jr, MD
1:00 pm Assessing the Multiply Injured Patient - The Orthopaedic ABC’s
1:15 pm Staged Treatment and Provisional Stabilization
1:30 pm Pelvic Ring Injuries - Evaluation, X-Ray Sheets and Binders
1:45 pm Compartment Syndrome - What To Do
2:00 pm Open Fractures - Classification, Debridement, Antibiotics and Treatment
2:15 pm Questions and Case Discussions
2:45 pm Break and Transition to Labs
3:00 pm Skills Lab
2 Labs with 45 minute rotating sessions
3:00 pm Spanning Knee Ex Fix
Theodore Toan Le, MD
Faculty, Lab Leader
3:00 pm Spanning Ankle Ex Fix
Anna N Miller, MD
Faculty, Lab Leader
4:30 pm – 4:45 pm Break and Transition to President’s Message

4:46 pm – 5:16 pm
President’s Message
Andrew H Schmidt, MD
President’s Message: Standardization and Systems: Steps We Must Take (Together)

Friday, October 11, 2013

6:30 am – 7:45 am
Sessions
PA/NP’s welcome to attend
6:30 am Case Presentation
The Challenging Hip Fracture: Pearls and Pitfalls
Amer J Mirza, MD; Darin Freiss, MD; Erik Kubik, MD; Edward A Perez, MD
6:30 am Case Presentation
Proximal Humerus ORIF – Advances in Fixation and Augmentation
Michael J Gardner, MD; Samir Mehta, MD; Clifford B Jones, MD
6:30 am Case Presentation
2 Minutes / 2 Slides: Ankle Injuries Technical Tips and Tricks
Pierre Guy, MD, MBA; Kenneth A Egol, MD; Timothy O White, MD; David W Sanders, MD; Paul Tornetta, III, MD
6:30 am Case Presentation
Distal Humerus Fractures: Tips and Tricks
Utku Kandemir, MD; Michael D McKee, MD; Milan K Sen, MD, John T Gorczyca, MD
6:30 am Skills Lab
(SL1) Fixation of Clavicle Fractures
Lab Leader: Gregory M Osgood, MD
Daren P Forward, MD; Julie Keller, MD; CDR Joseph E Strauss, DO; Erik Hasenboehler, MD; David B Weiss, MD; Emil H Schemitsch, MD
6:30 am Skills Lab
(SL2) ORIF Distal Tibia and Fibula Fractures
Lab Leader: Matt L Graves, MD
Faculty TBD

Forum Objectives
- Identify injury characteristics and integrate treatment strategies for multiple injury patients.
- Demonstrate and apply surgical skills for the application of external fixators for provisional stabilization.
- Compare and contrast fractures and treatment strategies for fractures about the knee.
- Employ and critique surgical skills involved in distal femoral and proximal tibia open reduction and internal fixation.
- Discuss the management algorithms and controversies encountered with the care of complex foot and ankle trauma.
- Recognize and review common complications encountered in the care of fractures and injuries.
- Examine and evaluate the operative treatment of upper extremity fractures.
- Apply and practice techniques for fixation of common upper extremity fractures.
Orthopaedic Trauma for NPs and PAs

Saturday, October 12, 2013

8:00 am – 9:00 am Fractures About The Hip and Knee I

Moderator: Christina L Boulton, MD
8:00 am Femoral Neck Fractures - Fix It Or Replace It
8:15 am Subtroch/Intertroch - Plates and ORIF
8:30 am Subtroch/Intertroch - IM Nails
8:45 am Femoral Shaft Fractures - Entry Portals
9:00 am Break and Transition to Border Lecture
9:15 am Border Lecture

9:45 am Break and Transition to PA/NP Session
10:00 am – 11:15 am Fractures About The Hip and Knee II

Moderator: Christina L Boulton, MD
10:00 am Supracondylar Femur - Tips and Tricks For Reduction and Fixation
10:15 am Tibial Plateau Fractures - One Incision Versus Two Incisions - When?
10:30 am Tibial Shaft Fractures - Transpatellar Or Suprapatellar Entry
10:45 am Questions and Case Discussions
11:15 am – 12:30 pm Lunch Break
12:30 pm – 2:00 pm Skills Lab
2 Labs with 45 minute rotating sessions
Distal Femoral Locked Plating
Christopher M McAndrew, MD
Faculty, Lab Leader
Proximal Tibia Plating
TBD

2:00 pm – 2:15 pm Break and Transition to PA/NP Session
2:15 pm – 3:45 pm Expert Panel and Case Discussions - Foot and Ankle

Moderator: Ryan P Finnan, MD
Ankle, Pilon, Calcaneus, Talus, Lisfranc, Crush Foot, Etc.

3:45 pm – 4:00 pm Break
4:00 pm – 5:30 pm Expert Panel and Case Discussions - Fracture Complications

Moderator: Hassan R Mir, MD
Wound Infection, Osteomyelitis, Malunion, Nonunion, Etc.

6:30 am Case Presentation
Surgical Treatment of Pediatric Femur Fractures, Current Concepts
Enes Kanlic, MD, PhD; Amr A Abdelgawad, MD; J Eric Gordon, MD; Marc F Swiontkowski, MD

Saturday, October 12, 2013
Thursday, October 10, 2013

11:00 am – 12:45 pm  IS1: Arthrex
Reduced and Unbreakable: Achieving the best with the Arthrex TightRope®

11:00 am – 12:45 pm  IS2: OrthoFix
The Management of Traumatic Bone Defects
The management of bone defects caused by trauma and nonunion continues to represent a substantial clinical challenge in the management of orthopaedic trauma patients. A variety of treatment options will be discussed during this industry session sponsored by Orthofix Orthopedics. Please join us for a global perspective on the complex management of traumatic bone defects including the Masquelet technique, the use of monolateral and circular fixation, as well as, the use of biologics.

11:00 am – 12:45 pm  IS3: Zimmer
Fragility Fractures of the Proximal Femur

11:00 am – 12:45 pm  IS4: Depuy Synthes Trauma
Peri-Prosthetic Fracture Treatment

11:00 am – 12:45 pm  IS6: Pacira Pharmaceuticals, Inc.
Peri-Operative Pain Management in the Orthopaedic Trauma Patient
Dr. Neil MacIntyre is a fellowship-trained orthopedic trauma surgeon at OrthoWilmington in Wilmington, North Carolina. Dr. MacIntyre specializes in the treatment of complex musculoskeletal injuries. He also specializes in the care of non-unions, mal-unions and complex fracture conditions. Dr. MacIntyre completed fellowship training in orthopedic trauma surgery at Hospital for Special Surgery in New York with Dr. David Helfet. He has completed advanced coursework in Upper Extremity Management, the evaluation, preservation and replacement of Young Adult Hip Disease, Pelvic and Acetabular Fracture conditions as well as Advanced Trauma studies.

CME credits are not available. Absolutely no recording (audio or video) or photography is permitted.
Case Presentations

Friday, October 11, 2013

6:30 am – 7:45 am  Orthopaedic Trauma Coding
Moderator: J Scott Broderick, MD
William R Creevy, MD
Updates in ICD-9 and CPT codes will be discussed. Case-based examples will be presented for both common and complex fracture cases. Participants are encouraged to bring case examples for discussion.

6:30 am – 7:45 am  The Challenging Hip Fracture: Pearls and Pitfalls
Moderator: Amer J Mirza, MD
Darin Freiss, MD; Erik Kubliak, MD; Edward A Perez, MD
This case presentation session is focused on delving deeper into the challenges that hip fractures can present. Specifically, our session will highlight some problem patterns, and then present strategies to avoid trouble. This session is geared towards a broad audience, with topics relevant to both a community/generalist practice and a busy academic traumatology practice, at both an attending and resident/fellow level.

6:30 am – 7:45 am  Proximal Humerus ORIF - Advances in Fixation and Augmentation
Moderator: Clifford B Jones, MD; Michael J Gardner, MD; Samir Mehta, MD
Proximal humeral fractures can be difficult to reduce, and to obtain and maintain stable fixation to achieve a good functional outcome. This session will highlight newer surgical approaches, reduction techniques, and implant and augmentation applications to minimize complications.

6:30 am – 7:45 am  2 Minutes/2 Slides: Ankle Injuries Technical Tips and Tricks
Moderator: Pierre Guy, MD, MBA
Kenneth A Egol, MD; Timothy O White, MD; David W Sanders, MD; Paul Tornetta, III, MD
A series of brief presentations consisting of two slides over two minutes where experts will highlight diagnostic pearls and surgical tricks for the care of patients with ankle injuries (fractures, ligamentous injuries). Each presentation will be followed by a short discussion.

6:30 am – 7:45 am  Distal Humerus Fractures: Tips and Tricks
Moderator: Utku Kandemir, MD
Michael D McKee, MD; Milan K Sen, MD; John T Gorczyca, MD
Treatment of Distal Humerus fractures may result in excellent or poor outcomes. Knowledge of surgical approaches, reduction and fixation techniques, and postoperative management is critical in order to achieve best outcome.

Saturday, October 12, 2013

6:30 am – 7:45 am  Surgical Treatment of Pediatric Femur Fractures, Current Concepts
Moderator: Enes Kanlic, MD, PhD
Amr A Abdelgawad, MD; J Eric Gordon, MD; Marc F Swiontkowski, MD
Pediatric femur fractures (proximal, shaft and distal) are common injuries often requiring urgent attention by orthopaedic surgeons on call. Current concepts of tactics and techniques in surgical treatment of growing skeleton will be discussed. Special focus is on intracapsular hip fractures, submuscular bridge plating (videos), intramedullary lateral entry rigid and elastic nailing.

6:30 am – 7:45 am  Management of Pelvic and Acetabulum Fractures
Moderator: Paul Tornetta, III, MD
Thomas F Higgins, MD; Robert V O’Toole, MD; Philip R Wolinsky, MD
Cases will be presented that highlight the initial management, operative treatment options, and expected outcomes of pelvic and acetabulum fractures. An expert panel will provide varying opinions on the management of these complex injuries.

6:30 am – 7:45 am  The Isolated Humerus: Not All Belong in the Sarmiento
Moderator: Lisa K Cannada, MD
William T Obremskey, MD; Clifford B Jones, MD
Isolated humeral shaft fractures are controversial. The standard treatment used to be non-operative. This has been shown to have increased rates of malunion and nonunion. Through case presentations with strong consideration of patient variables, treatment strategies for the isolated humeral shaft will be discussed.
Mini-Symposia

Friday, October 11, 2013

10:15 am–11:45 am
How to Use the OTA Case Database at Your Institution
Moderator: Julie Agel, ATC
This symposium will review the OTA sponsored orthopedic trauma registry. It will review how to access the database, how to enter data, how to run reports and options for multicenter study data sharing.

10:15 am–11:45 am
Femoral Neck Fractures in Young Adults: Why are We Not “Fixing” These Better?
Moderator: Cory A Collinge, MD
Michael T Archdeacon, MD; Bradley R Merk, MD; Frank Liporace, MD
The purpose of this symposium is to review the treatment of femoral neck fractures in young adults (<50) with an emphasis on fixation and failed treatment. Pathogenesis of nonunion, malunion, and fixation failure will be discussed in the context of reduction and implant selection. Basic principles of fracture treatment will be reviewed and whether these apply to these fractures or not.

10:15 am–11:45 am
Traumatic Limb Injuries Requiring Amputation: A Multidisciplinary Approach Using The Osteomyoplastic (Ertl) Technique
Moderator: William J Ertl, MD
Jonathan D Day, CPO; Carol P Dionne, PT, DPT, PhD, OCS; Jan Ertl, MD James R Ficke, MD
Osteomyoplastic amputation, commonly known as the “Ertl approach”, is an innovative surgical approach which, when combined with comprehensive and interdisciplinary rehabilitation, aggressively addresses the complex issues which surround comprehensive care of those with amputation. The purpose of this course is to inform and update participants on the interdisciplinary management of osteomyoplastic amputation. The following topics will be addressed: selected surgical approaches of primary amputation and revision; comprehensive and individualized rehabilitation for optimal functional restoration; prosthetic management specific to this approach, the amputee perspective; research update. This is a pertinent and important emerging practice for all practitioners.

12:30 pm–2:00 pm
Financial Implications of Increasing ACS Trauma Level: Where does Orthopaedic Trauma Surgeon Fit into the Equation?
Moderator: Timothy J Bray, MD; Peter Althausen, MD; Austin Hill, MD, MPH; Roy Sanders, MD; Mike Williams, MBA
Nationally there has been an increase in the number of trauma centers since 2005. Trauma surgeons are typically excluded from the decision-making process and are therefore less aware of the financial costs and benefits to establishing a trauma center or increasing ACS trauma level status. The purpose of this symposium is to discuss how profitability, market share, halo effect, the affordable care act, and a rapidly increasing number of trauma trained orthopaedic surgeons contribute to the increase in trauma centers and the decentralization of trauma care. Finally, there will be a discussion in ways for the surgeon to improve quality care in a fiscally sustainable manner within trauma centers and the financial impact of the Affordable Care Act on trauma care.

12:30 pm–2:00 pm
Introduction to ICD-10 for Orthopaedic Traumatologists
Moderator: M Bradford Henley, MD
William R Creevy, MD; J Scott Broderick, MD; Clifford B Jones, MD; Kyle J Jeray, MD; Joseph M Lane, MD; Michael J Gardner, MD; Michael D McKee, MD
Attendees will learn about the enhanced requirements of ICD-10-CM for physician documentation of musculoskeletal trauma diagnoses. Insight into the specific requirements to substantiate medical necessity and obtain reimbursement for orthopaedic operative procedures, inpatient and outpatient services will be provided. Further, participants will understand the benefits, rationale and requirements for conversion to ICD-10-CM and ICD-10-PCS.

2:30 pm–4:00 pm
Technical Tips in 3 and 4-Part Proximal Humerus ORIF
Moderator: Utku Kandemir, MD
John T Gorczyca, MD; Milan K Sen, MD; Michael J Gardner, MD; Michael D McKee, MD
While open reduction and internal fixation is one of the most common type of treatment when surgery is indicated in proximal humerus fractures, it is technically challenging and prone to complications associated with the surgical technique.

3:30 pm–4:00 pm
How to Establish and Run a Fragility Fracture Program
Moderator: James A Goulet, MD
Clifford B Jones, MD; Kyle J Jeray, MD; Joseph M Lane, MD; Marc F Swiontkowski, MD
Until recently, most orthopaedic surgeons have not had the inclination or the means to adequately address the metabolic bone needs of fracture patients with poor bone quality at high risk for recurrent fragility fractures. Recently, however, highly cost effective programs have been developed that greatly diminish the risk of fracture recurrence. This mini-symposium will offer registrants a pathway to establishing and running a fragility fracture clinic as a practice adjunct, without sacrificing the quality or focus of their orthopaedic trauma practices.
Mini-Symposia

Saturday, October 12, 2013

2:30 pm – 4:00 pm  Healthcare Systems and Trauma: A 360 Degree World View for the Orthopaedic Trauma Surgeon
Moderator: Manish K Sethi, MD
James R Ficke, MD; A Alex Jahangir, MD
Samir Mehta, MD
As the United States finds itself strapped with 16.4 trillion dollars of debt, no issue will be of more importance to the future generation of America’s leaders than a sound understanding of healthcare. This symposium seeks to develop an understanding of the evolution of healthcare reform in America, from President Johnson’s creation of Medicare in 1965 to the dramatic changes in healthcare enacted in 2010. The underlying premise of the symposium is that one must reflect upon the evolution of American healthcare in order to understand potential future directions of change.

10:00 am – 11:30 am  What Could Go Wrong Did: Getting Out of Trouble
Moderator: Lisa K Cannada, MD
Brian H Mullis, MD; Frank A Liporace, MD; David C Templeman, MD
It’s Friday afternoon (Fill in the blank: or 6 pm and you have a commitment or Sunday morning and you have somewhere). No sweat. The simple fracture is all that is between you and freedom. Then it falls apart. What to do to avoid failure in a “simple fracture case”

10:00 am – 11:30 am  Geriatric Pelvis and Acetabular Fractures: We Should Treat Them Like Hip Fractures
Moderator: Brett D Crist, MD
Michael T Archdeacon, MD; Steven A Olson, MD; Stephen A Sems, MD; Cory A Collinge, MD
Pelvic ring and acetabular fractures in the geriatric patient can affect function and morbidity as significantly as hip fractures and should be considered as important. This break-out session will demonstrate the impact these fractures have on geriatric patients and will review operative indications and techniques in a lecture, debate, and case-based format.

10:00 am – 11:30 am  Malunion / Nonunion Management: What I Wish Someone Had Told Me Before I Started Doing These Cases
Moderator: Samir Mehta, MD
David P Barei, MD; Gregory J Della Rocca, MD, PhD; J Spence Reid, MD
Malunion and nonunion management can be very challenging. Preoperative assessment and preoperative planning are critical aspects to a successful outcome. Understanding the limitations of surgery are also important when counseling patients.

12:30 pm – 2:00 pm  Management of Pediatric Trauma Urgencies / Emergencies
Moderator: David A Podeszwa, MD
Christine A Ho, MD; Anthony I Riccio, MD; Lane Wimberly, MD
A case-based and didactic review of pediatric trauma urgencies and emergencies. Interactive discussion will cover the evaluation and management of pediatric pulseless supracondylar humerus fractures, femoral neck fractures, and complex physeal fractures of the distal femur and proximal tibia. Potential complications and management strategies of the complications will also be reviewed.

12:30 pm – 2:00 pm  Rib Fracture Fixation in 2013: Lunatic Fringe or State of the Art?
Moderator: Michael D McKee, MD
Peter Althausen, MD; Noloofar Dehghan, MD; Aaron Nauth, MD; Morad Hameed, MD; Emil H Schemitsch, MD; Gerard P Slobogean, MD
Rib fracture fixation in the setting of the flail or unstable chest wall in polytrauma patients is gaining in popularity. Although it is a non-traditional area of fixation, there is some preliminary information that stabilization of flail chest injuries may significantly decrease patient morbidity and is of interest to practicing orthopaedic surgeons. This symposium will examine the history, techniques, current status, and future of rib fracture fixation.

12:30 pm – 2:00 pm  Orthopaedic Surgeons Taking Ownership of Extremity Trauma: Soft Tissue Coverage
Moderator: Christopher M McAndrew, MD; Daniel A Osei, MD; Martin I Boyer, MD; Duretti Fufa, MD; David A Volgas, MD
The evolution of surgical specialties has resulted in a select number of surgeons who develop an understanding of soft tissue trauma and extremity anatomy, who are also available to treat injuries in a timely manner. Orthopaedic surgeons are best positioned to develop the skill-sets to treat severe extremity trauma from debridement through stabilization AND soft-tissue coverage. Collaboration amongst orthopaedic surgeons who specialize in traumatology and micro-vascular surgery can greatly benefit the patient and the health care system. Discussion of the principles of soft tissue coverage and a model for developing a “single-specialty system” for lower extremity trauma will be presented.
Friday, October 11, 2013
6:30 am – 7:45 am
(SL1) Fixation of Clavicle Fractures
Lab Leader: Gregory M Osgood, MD
Daren P Forward, MD; Julie Keller, MD;
CDR Joseph E Strauss, DO; Erik Hasenboehler, MD;
David B Weiss, MD; Emil H Schemitsch, MD
Clavicle Fixation: Who, Why, How? Over the last
decade, evidence based medicine has supported a
trend toward surgical fixation of displaced clavicle
fractures in young, active individuals. Now, take the
opportunity to share experiences and learn the pearls
and pitfalls in clavicle fixation from the expert. Greg
Osgood, MD, will review the indications and operative
techniques for displaced fractures of the clavicle.
You will also have the opportunity to have hands-on
workshop training during the session to practice
different plating techniques and discuss approaches
to the clavicle. This session will increase your clinical
knowledge and help you in your daily practice.

6:30 am – 7:45 am
(SL2) ORIF Distal Tibia and Fibula Fractures
Lab Leader: Matt L Graves, MD
TBD
This lab will include hands-on instruction by our
panel of experts on the open reduction and internal
fixation of distal tibia and fibula fractures with
plate and screws in a synthetic bone model. Topics
including timing, approach, and post-op care will
also be covered.

12:30 pm – 2:00 pm
(SL4) IM Fixation of Proximal Tibial Fractures
Lab Leader: Roy Sanders, MD
Anthony S Rhorer, MD; Paul Tornetta, III, MD;
Joshua Langford, MD; William M Ricci, MD
This lab will cover options for intra-medullary fixation
of proximal tibial metaphyseal fractures, including
flexed and extended position, and supra-patellar
nailing. Our panel of experts will review adjunctive
techniques for obtaining reduction, including blocking
screws, reduction plates, distractors and positioning.

12:30 pm – 2:00 pm
(SL5) Knee or Ankle Spanning Ex-Fix
Lab Leader: Edward A Perez, MD
Matthew I Rudloff, MD; Robert D Zura, MD;
Amer J Mirza, MD; Hassan R Mir, MD
This lab will demonstrate the principles for, and
application of, temporizing spanning external
fixation – damage control orthopedics. The practical
exercise will demonstrate the proper technique and
surgical pearls to utilize within the clinical setting.

Saturday, October 12, 2013
6:30 am – 7:45 am
(SL6) ORIF Distal Radius Fractures
Lab Leader: Melvin P Rosenwasser, MD
Michael D McKee, MD; Thomas F Varecka, MD;
R Kumar Kadiyala, MD
This lab will provide an opportunity to hone your
volar plating techniques. Experienced and renowned
surgeons will be there to share their expertise, tips
and tricks.
Don’t miss an opportunity for a guided poster tour. Registration is required and space is limited.

**Poster Viewing Hours:**

Thursday, 10/10, 1:00 pm—Saturday, 10/12, 1:30 pm
Disclaimer
The material presented at the 29th Annual Meeting has been made available by the Orthopaedic Trauma Association for educational purposes only. The material is not intended to represent the only, nor necessarily best, method or procedure appropriate for the medical situations discussed, but rather is intended to present an approach, view, statement or opinion of the faculty which may be helpful to others who face similar situations. The Orthopaedic Trauma Association disclaims any and all liability for injury or other damages resulting to any individual attending the Annual Meeting and for all claims which may arise out of the use of the techniques demonstrated therein by such individuals, whether these claims shall be asserted by physician or any other person.

Disclosure
Presenters are required to disclose whether or not they, or their department, received something of value from a commercial or other party which related directly or indirectly to the subject of their presentation. This disclosure is indicated in the final program. The OTA does not intend this identification to decrease the value of the presentation or to imply bias. It is intended solely for information.

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

Some drugs or medical devices described or demonstrated in Orthopaedic Trauma Association educational materials or programs have not been cleared by the FDA or have been cleared by the FDA for specific uses only. The FDA has stated that it is the responsibility of the physician to determine the FDA clearance status of each drug or device he or she wishes to use in clinical practice.

Course Location
Things are different in the desert. The sky is bigger. The stars are brighter. The sunsets stop you in your tracks. It’s a feeling that can’t be conjured, landscaped or kindled with twinkling bulbs. John Ford knew that. So did Frank Lloyd Wright. Come to Greater Phoenix and you’ll understand, too. America’s sixth-largest city still has real cowboys and rugged mountains and the kind of cactus most people see only in cartoons. Phoenix is the gateway to the Grand Canyon, and its history is a testament to the spirit of pueblos, ranchers, miners and visionaries.

Projected against this rich backdrop is a panorama of urban sophistication: Resorts and spas that drop jaws and soothe souls. Stadiums and arenas worthy of the world’s biggest sports spectacles. Restaurants with inspired cuisine and inspiring patio views. Golf courses that beckon players the year round. Shopping centers as stylish and eclectic as the fashions they house.

This is Greater Phoenix — Arizona’s urban heart and America’s sunniest metropolis.

Accommodations

JW Marriott Desert Ridge
Room Rates: $335 USD
Reservation Deadline: September 10

Fairmont Princess
Room Rate: $264 USD
Reservation Deadline: September 10

Please make hotel reservations online by visiting www.ota.org.
The JW Marriott is the headquarter hotel, where all Annual Meeting events will take place. The Residents Course will take place at the Fairmont, and overflow housing is available at the Fairmont.
Continuous looping shuttle service will be available between hotels.

Ground Transportation to JW Marriott
This hotel does not provide shuttle service.

From Phoenix Sky Harbor International Airport - PHX
Driving directions:
• Take 24th Street Exit from Phoenix Sky Harbor Int’l Airport and follow signs to 51 North
• Stay on 51 North until it ends at Loop 101
• Exit 101 East and stay in right lane to exit Tatum Blvd
• Turn left onto Tatum Blvd. You’ll pass Desert Ridge Marketplace on right.
• Turn right at Deer Valley Road.
• Turn left at Marriott Drive.

Alternate transportation:
• SuperShuttle; fee: $23 USD (one way); reservation required
• Estimated taxi fare: $65 USD (one way)

From Scottsdale Municipal Airport - SCF
Visit SCF airport website
Hotel direction: 6 mile(s) NW

Alternate transportation:
• Super Shuttle; fee: $21 USD (one way) reservation required
• Estimated taxi fare: $20 USD (one way)
Ground Transportation to Fairmont Princess
From Phoenix Sky Harbor International Airport

Driving directions:
• Follow Sky Harbor Blvd. to ‘East Cities/Exit 202’.
• Continue to Hwy 202. Take Hwy 202 East to Hwy 101 Loop North.
• Follow Hwy 101 North and exit on Scottsdale Road.
• Turn left (south) on Scottsdale Road and continue to Princess Drive.
• Turn left (east) on Princess Drive, follow signs to the Fairmont Scottsdale Princess. (Approx. .03 miles)
• Lobby entrance will be on your right.
• The hotel has three parking lots, one for each section of the hotel.
   Valet parking: From $25.00 USD for overnight, including in-and-out privileges
   Self parking: $10.00 USD per night
   Hybrid drivers enjoy complimentary overnight valet and self parking

On-site Registration
• Registrations postmarked after September 3 will be accepted on-site plus an additional $100 USD late fee.
• On-site Registration will be available as follows: Convention Center Foyer (All Pre-Meeting Events)
  Tuesday: 4:00 pm – 6:00 pm
  Wednesday–Saturday: 6:15 am – 5:00 pm
• Exhibitors must register through the OTA office.

Annual Meeting Posters
Annual Meeting Scientific Posters will be available for viewing at all times during the meeting beginning at 2:30 pm on Thursday through 1:30 pm on Saturday outside of the General Session room.

Skills Labs, Poster Tours and Industry Lunch Symposia
• Ensure your space in Skills Labs, Poster Tours and Industry Lunch Symposia - register early. Tickets are required.
• Sessions FILL QUICKLY and may not be available to on-site registrants.
• Choose the Sessions in order of your preference.

Payment
• All meeting registrations must be accompanied by payment.
• Indicate payment – Visa, MasterCard or AMEX with cardholder name, number, expiration date and signature and FAX form directly to: (847) 823 – 0536
• Check made payable to OTA and drawn from a US bank in US dollars.
  Mail form and check to: OTA 6664 Eagle Way Chicago IL 60678-1066, USA
• Registrations sent via Courier must be sent to the OTA staff office: 6300 N. River Road, Suite 727, Rosemont, IL 60018

Cancellations and Refunds
• Submit cancellation in writing to OTA office via fax: (847) 823 – 0536 or E-mail: OTA@aaos.org
• Refunds less a $100 USD processing fee per registration will be made in a timely basis by OTA after the close of the OTA Annual Meeting.
• No refunds after October 1, 2013.

Registration Information
• Register online at www.ota.org using your OTA username. E-mail ota@aaos.org for your OTA username.
• Postmarked registrations after September 3 will not be processed; on-site registrations will require an additional $100 USD late fee. On-line registrations prior to September 10 will not incur the $100 USD late fee.
• All pre-registrations will receive confirmation by E-mail. Badges will be mailed to all those in the US and Canada who register by September 10. International attendees need to pick up their badges on-site.
• The pre-registration form may be photocopied as needed.
2013 OTA ANNUAL MEETING

Checklist

☐ Completed the Meeting Registration Form?

☐ Indicated your preferences for Industry Lunch Symposia, Skills Labs and Guided Poster Tours (page 39)

☐ Included your Payment with the Registration Form?

☐ Made your hotel reservation with the JW Marriott Desert Ridge or Fairmont Scottsdale online at www.ota.org or by calling 877–632–8165?

Secure on-line registration at www.ota.org or Fax Registration Forms with Credit Card payment to 847–823–0536

Mail Registration with USD Check Payment to:
Orthopaedic Trauma Association
6664 Eagle Way
Chicago, IL 60678-1066 USA

Please note that the above address can only be used when sending via First Class Postage. Courier or Federal Express deliveries must be sent to the OTA staff office:
6300 N. River Road, Suite 727, Rosemont, IL 60018.

Registration faxed or post-marked by September 3, 2013.
Register on-line by September 10, 2013.

For More Information
Call 847–698–1631, E-mail ota@aaos.org or visit the OTA web site, www.ota.org.

Attendance at an OTA educational event authorizes the OTA to capture your image or likeness in photographic, digital video, or other electronic format, and authorizes the OTA to use said image or likeness in marketing materials to promote OTA, including print, electronic and on the internet. OTA warrants that its use of the image or likeness will not be in a negative manner. OTA has no control over the use of the image or likeness by third parties and therefore makes no express or implied warranties on any use by third parties.
**Registration Form**

**PERSONAL INFORMATION** (PLEASE PRINT CLEARLY)

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**ANNUAL MEETING REGISTRATION FEES**

**U.S. FUNDS**

Postmarked by: September 3, 2013. Fees increased $100 USD on site.

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**WEDNESDAY, OCTOBER 9**

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<td>Orthopaedic Trauma Boot Camp</td>
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<td>Grant Writing Workshop</td>
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<td>International Trauma Care Forum</td>
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<td>International Reception</td>
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<td>ALL-inclusive Pre-Meeting Badge for OTA Members</td>
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**THURSDAY, OCTOBER 10**

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<td>Young Practitioners Forum</td>
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<td>Orthopaedic Trauma for NPs and PAs 10/10/13 – 10/12/13</td>
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**FRIDAY, OCTOBER 11**

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<td>New Member Luncheon</td>
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<td>Military Reception</td>
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**TOTAL**

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**RESERVED SESSIONS | TICKETS REQUIRED**

<table>
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<tr>
<th>Session</th>
<th>1st Choice # (Only check one)</th>
<th>2nd Choice # (Only check one)</th>
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<tr>
<td>Industry Lunch Symposia</td>
<td>IS1</td>
<td>IS2</td>
</tr>
<tr>
<td>Thursday Lunch 11:00 am – 12:45 pm</td>
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<tr>
<td>Poster Tours</td>
<td>#P1</td>
<td>#P2</td>
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<tr>
<td>Friday Morning 7:00 am – 7:45 am</td>
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<tr>
<td>Friday Lunch 11:35 am – 12:20 pm</td>
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<tr>
<td>Saturday Morning 7:00 am – 7:45 am</td>
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<tr>
<td>Saturday Lunch 11:50 am – 12:35 pm</td>
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<tr>
<td>Skills Labs</td>
<td>#S1</td>
<td>#S2</td>
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<tr>
<td>Friday 6:30 am – 7:45 am</td>
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<tr>
<td>Friday 12:30 pm – 2:00 pm</td>
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<tr>
<td>Saturday 6:30 am – 7:45 am</td>
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**METHOD OF PAYMENT**

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<th>MasterCard</th>
<th>American Express</th>
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**CARD NUMBER**

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**EXP. DATE**

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**CVV#**

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**SIGNATURE**

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**NAME (AS IT APPEARS ON CARD)**

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**REFUNDS**

OTA office must receive written notice of cancellation for a refund less a $100.00 USD processing fee. No refunds after October 1, 2013.

Make checks payable to: Orthopaedic Trauma Association, 6664 Eagle Way, Chicago, IL 60678-1066, USA

**2013 OTA ANNUAL MEETING**

**REGISTER ON-SITE AFTER SEPTEMBER 10, 2013 - AN ADDITIONAL $100 USD FEE WILL APPLY.**

All company representatives must use Exhibitor Registration Form (available from OTA staff).
Member Services
Take advantage of the many OTA member services….
• JOT Subscription
• Meeting Discounts
• Fellowship Match
• Discussion Forum and Listserv
• Mentor Programs
• Career Resources
• Coding and Practice Management Resources (Academic and Community)

Education
Learn the latest techniques for the management of complex orthopaedic trauma patients from leading orthopaedic trauma educators.
The OTA offers educational opportunities for:
• Residents
• Young Practitioners
• Mid - Senior Level Orthopaedic Surgeons
• Fellows
Scholarships offered for most resident and fellows programs.

Research
• Research Grants
• Trauma Registry
• Multi-Center Studies
• Conduct and Access OTA Member Surveys

Professional Development and Leadership Opportunities
• 25+ Committees and Project Teams
• Resident and Fellow Education and Research Grants

Health Policy & Practice Management
• Shape Health Policy
• Evaluate Current Practice Management Issues
• Develop Position Statements and Incorporate Thoughtful Solutions

OTA
ORTHOPAEDIC
TRAUMA
ASSOCIATION

www.ota.org
WEBINAR: PERIPROSTHETIC FEMORAL SHAFT AND SUPRACONDYLAR FEMUR FRACTURES - GENERAL PRINCIPLES AND ROLE FOR LOCKED PLATES AND REVISION ARTHROPLASTY (REGISTER ONLINE)  
September 24, 2013

MEMBERSHIP APPLICATION DEADLINE (Apply Online)  
November 1, 2013

ACUTE CARE ORTHOPAEDIC TRAUMA COURSE  
November 2, 2013  
Atlanta, GA

WEBINAR: COMMON UPPER EXTREMITY FRACTURES: THE WHEN AND HOW OF SURGICAL MANAGEMENT (Register Online)  
November 19, 2013

ADVANCED TRAUMA TECHNIQUES COURSE FOR RESIDENTS  
January 10–11, 2014  
Texas

OTA SPECIALTY DAY  
Saturday, March 15, 2014  
New Orleans, LA

OTA FELLOWS COURSE  
April 3–6, 2014  
Boston, Massachusetts

OTA SPRING RESIDENT’S COMPREHENSIVE FRACTURE COURSE 2.0  
April 16–19, 2014  
Lombard, Illinois

AAOS/OTA JOINT TRAUMA UPDATE COURSE  
May 1–3, 2014  
Orlando, Florida

30TH OTA ANNUAL MEETING  
October 15–18, 2014  
Tampa, Florida

2013 WEBSITES
Visit the OTA or AAOS website for details.

Join OTA
Application deadlines:  
• NOVEMBER 1, 2013  
• MAY 1, 2014
Apply online at www.ota.org

ORTHO PAEDIC TRAUMA ASSOCIATION
Check www.ota.org for details.

* Educational Opportunities include Category 1 CME™ credits
Pre-registration Deadline:
Mail: September 3, 2013
Online: September 10, 2013
Hotel Deadline: September 16, 2013

19+ AMA PRA Category 1 Credits™ for attending the Annual Meeting.

Additional credits if you attend premeeting events:
Basic Science Focus Forum (10.25 CME)
Masters Level Trauma Coding (6 CME)
International Trauma Care Forum (8.5CME)
Orthopaedic Trauma Boot Camp (12 CME)
Young Practitioners Forum (4 CME)
Grant Writing Workshop (8.5 CME)
NP/PA Course (20.25 AAPA Category 1 CME Credits)