30th Anniversary Annual Meeting

October 15-18, 2014

Tampa Convention Center
Tampa, Florida, USA

Pre-Meeting Courses:
Basic Science Focus Forum
International Orthopaedic Trauma Care Forum
ICD-10 Coding for Trauma Surgeons
Orthopaedic Trauma Boot Camp
Orthopaedic Trauma for PAs & NPs
Young Practitioners Forum

21+ CME
The Orthopaedic Trauma Association gratefully acknowledges 2013 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 expresses sincere appreciation to these contributors for their generous financial support.

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Dear Colleagues,

On behalf of the OTA Program Committee and President Ross Leighton, MD, I am pleased to invite you to the 30th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in Tampa, Florida, October 15 – 18, 2014. The committee has put a tremendous effort into planning a meeting which will provide the most comprehensive and up-to-date program on the treatment of musculoskeletal injury. The Annual Meeting will cover a diverse spectrum of topics and present the opportunity to attend a wide range of concomitant sessions. Offerings will include scientific presentations of original research, broad symposia, small group discussions, and hands-on labs in order to provide learning opportunities that meet the needs of all musculoskeletal health care professionals.

This year’s meeting will highlight main symposia on three topics: a debate style presentation regarding a standardized approach to hip fracture care and the effect of the Affordable Care Act on orthopaedic trauma; the current state of scientific evidence on damage control orthopaedics; and the state-of-the-art treatment for tibial plateau fractures. Continued this year, attendees will have choices throughout the meeting to attend podium presentations or concurrent mini-symposia covering a wide range of topics. The mini-symposia, case presentations, and skills labs will each concentrate on a more focused topic, and these smaller sessions will allow attendees to truly customize their meeting experience.

The Scientific Program will include the most relevant and scientifically sound research submitted. More than 90 podium presentations and 150 posters were selected by the Program Committee from a record 812 abstracts submitted for consideration. Five pre-meetings precede the formal Annual Meeting, beginning with the Basic Science Focus Forum (BSFF), chaired by Ed Harvey, MD. Beginning Wednesday, October 15th, the BSFF is a one and one-half day event that will provide an additional in-depth program designed to augment and expand upon the basic science presented and discussed at the main meeting. Dan Horwitz, MD and Bob Ostrum, MD, will chair a one and one-half day Orthopaedic Trauma Boot Camp, designed for orthopaedic surgeons with busy practices outside of trauma who are called upon to solve difficult fracture problems in their communities. Dr. Horwitz will lead a select team of experienced OTA surgeon educators guiding participants through cases designed to highlight difficult injuries and the tips and tricks for successful treatment.

Two additional, single day pre-meeting events will take place on Wednesday, October 15th. The highly successful International Forum will continue under the direction of Peter V. Giannoudis, MD, William G. DeLong, MD, Saqib Rehman, MD and Amir M. Matityahu, MD. The ICD-10 Coding for Trauma Surgeons chaired by Scott Broderick, MD, and Karen Zupko & Associates will cover changes in orthopaedic trauma billing and coding that will affect everyone’s practice. The half-day Young Practitioners Forum led by Lisa Cannada, MD, on Thursday morning will focus on the concerns of members in their first five years of practice. 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 and Nurse Practitioners, chaired by Cliff Jones, MD, Cory Collinge, MD, Dan Coll, PA-C, and Dennis Gregory, PA-C, will run concurrent with the Annual Meeting from Thursday, October 16th to Saturday, October 18th. The OTA Residents Fracture Course, chaired by Kyle J. Jeray, MD, and Toni M. McLaurin, MD, will also run concomitant to the Annual Meeting.

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 Tampa!

Thomas F. Higgins, MD
Program Chair
Dear Colleagues,

I am pleased to welcome you to Tampa, Florida for the 30th Annual Meeting of the Orthopaedic Trauma Association!

The meeting will be held in downtown Tampa at the Convention Center. With the Embassy Suites, Westin, and Marriott all within walking distance, you won’t have to go far to enjoy the conference. Located on the water, during a wonderful time of year weather-wise, the meeting should offer an opportunity to learn in a comfortable and relaxing environment.

Tampa Bay offers many amenities, should you have time to partake. A number of world class golf courses, and the beaches in Clearwater are just a short drive away. Our International Plaza Mall, close to the airport offers very high end shopping including Tiffany’s, Louis Vuitton, Michael Kors, Nieman Marcus, Boss, Burberry, and more. For those of you that would rather lift than shop, close to the Convention Center are the Powerhouse Gym and Harbor Island Health Club. Or if you are into running or just walking, try it on our beautiful Bayshore Boulevard, the longest continuous sidewalk in America - six miles all on the water.

Restaurants and bars are everywhere. Howard Avenue features lots of great bars, and of course, Bern’s Steak House, featuring the largest collection of wine and spirits (350,000 and counting) in the world. Next door is SideBern’s and the newly opened Epicurean Hotel and Restaurant. If you want other fare, close to the mall we have Eddie V’s, Capitol Grill, Fleming’s, Ruth’s Chris, Roy’s, and Ocean Prime to name just a few. Make your reservations early!

The Buccaneers have a bye that weekend, but the USF Bulls Football will be in town for those of you die-hard college football fans. And for some of you, I have no doubt that Dale Mabry Avenue will call. Finally, for those of you with families, the Florida Aquarium is just down the road, and the Lowry Park Zoo and Busch Gardens, is a short ride from downtown.

I look forward to seeing you all in October. It’s a time for education, getting together with friends and colleagues, and some fun. Trust me when I say, there is more to do than you have time for. Let me know if you have any questions regarding your upcoming visit. Enjoy!!

Sincerely,

Roy Sanders, MD
Annual Meeting Host
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
The OTA Annual Meeting is approved for 21 *AMA PRA Category 1 Credits™*. Additional credits are also available for the following pre-meeting activities:

- Basic Science Focus Forum (11.75 *AMA PRA Category 1 Credits™*)
- ICD-10 Coding for Trauma Surgeons (6 *AMA PRA Category 1 Credits™*)
- International Trauma Care Forum (7.5 *AMA PRA Category 1 Credits™*)
- Orthopaedic Trauma Boot Camp (12 *AMA PRA Category 1 Credits™*)
- Young Practitioners Forum (4 *AMA PRA Category 1 Credits™*)
- PA/NP Course (19 AAPA Category 1 CME Credit)

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Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
The OTA is an organization dedicated to the discovery and dissemination of knowledge and information regarding the prevention, diagnosis, and treatment of musculoskeletal injuries. This 30th Anniversary Annual Meeting of the OTA 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 and become familiar with the most up-to-date clinical and basic science advancements related to orthopaedic trauma
- Understand the evidence and surgical techniques for the management of common types of tibial plateau fractures
- Identify the current state of the art of damage control orthopaedics and how this affects your clinical practice
- Understand the pros and cons of implementation of the Affordable Care Act and its impact on orthopaedic trauma
**BASIC SCIENCE FOCUS FORUM**

**Edward J. Harvey, 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 **11.75 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 pertinence and efficacy of augmenting bone repair
- Better judge treatment modalities in the severely injured limb
- Know about the use of big data sets in trauma research
- Review chondroprotective treatment options
- Understand where we are in the treatment of osteoporosis and fragility fractures

**Wednesday, October 15, 2014**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tr>
<td>6:30 am</td>
<td>Registration and Continental Breakfast</td>
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</table>
| 7:25 am | Introduction  
Edward J. Harvey, MD, Program Chair |
| 7:30 am - 8:35 am | Symposium 1  
Biomechanical Concepts for Fracture Fixation  
Moderators: Emil H. Schemitsch, MD  
Michael Bottlang, PhD |
| 7:30 am | Radial Head and Coronoid Fractures: Biomechanical Evidence for Modern Approaches  
TBD |
| 7:40 am | Unstable Sacral Fractures: Is Standard Iliosacral Screw Fixation Adequate?  
TBD |
| 7:50 am | Periprosthetic Femur Fractures: 90/90 Fixation Versus a Single Locking Plate?  
Emil H. Schemitsch, MD |
| 8:00 am | Distal Femur Fractures: Far Cortical Versus Conventional Locking Screws: Is There a New Gold Standard?  
Michael Bottlang, PhD |
| 8:10 am | Syndesmosis Injuries: What Is the Ideal Fixation Construct?  
Kenneth A. Egol, MD |
| 8:20 am | Discussion |
| 8:35 am | Paper Session 1  
Biomechanically-Directed Fixation  
Moderators: Emil H. Schemitsch, MD  
Michael Bottlang, PhD |
| 8:35 am | Overview  
Michael Bottlang, PhD |
| 8:42 am | Paper 1  
How to Use Fluoroscopic Imaging to Prevent Intra-Articular Screw Perforation During Locked Plating of Proximal Humerus Fractures: A Cadaveric Study  
Jason Allen Lowe, MD; Shafagh Monazzam, MD; Blaine T. Walton, MD; Elisha M. Nelson; Philip R. Wolinsky, MD |
| 8:48 am | Paper 2  
Cortical Bone Drilling Induced Heat Production with Common Drill Devices  
Andrew Palmisano, MD; Bruce Li-Jung Tai, PhD; Barry Belmont, MS; James R. Holmes, MD; Albert Shih, PhD |
| 8:54 am | Paper 3  
Can Views of the Proximal Femur be Reliably Used to Predict Malrotation After Femoral Nailing? A Cadaveric Validation Study  
Andrew Dubina; Michael Robert Rozak, BA, BS; Robert V. O'Toole, MD |
| 9:00 am | Paper 4  
Polyether Ether Ketone Carbon Fiber Composites can Improve Healing of Fractures Stabilized with Intramedullary Nails  
Matthew Cantwell |
| 9:06 am | Discussion |
| 9:15 am - 9:35 am | Break |

**Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.**
**Basic Science Focus Forum**

Wednesday, October 15

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<th>Time</th>
<th>Session</th>
<th>Moderator(s)</th>
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<tbody>
<tr>
<td>9:35 am</td>
<td><strong>Symposium 2</strong></td>
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<tr>
<td>10:30 am</td>
<td><strong>Bone Graft Substitution and Augmentation</strong></td>
<td>Aaron Nauth, MD</td>
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<td>Peter V. Giannoudis, MD</td>
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<tr>
<td>9:35 am</td>
<td><strong>Selecting the Right Bone Graft Substitute for Your Patient</strong></td>
<td>Aaron Nauth, MD</td>
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<td>9:45 am</td>
<td><strong>BMPs: Is There Still a Role in 2014?</strong></td>
<td>Peter V. Giannoudis, MD</td>
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<td>9:55 am</td>
<td><strong>Injectable Calcium Phosphates and Sulfates: When I Use Them and Which One I Use</strong></td>
<td>J. Tracy Watson, MD</td>
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<tr>
<td>10:05 am</td>
<td><strong>Bone Marrow Aspirate and Autologous Stem Cells: Are They Effective?</strong></td>
<td>TBD</td>
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<td>10:15 am</td>
<td><strong>Discussion</strong></td>
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<tr>
<td>10:30 am</td>
<td><strong>Paper Session 2</strong></td>
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<td>11:35 am</td>
<td><strong>Inflammation and Bone Healing</strong></td>
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<td>Aaron Nauth, MD</td>
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<td>J. Tracy Watson, MD</td>
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<tr>
<td>10:30 am</td>
<td><strong>Overview</strong></td>
<td>Aaron Nauth, MD</td>
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<td>10:36 am</td>
<td><strong>Paper 5</strong></td>
<td>John J. Wixted, MD; Daniel Mandell, MD; Christopher Raskett, BS; Vivik Venugopal, BS; Jane B. Lian, PhD; Paul Joseph Fanning, PhD</td>
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<tr>
<td>10:42 am</td>
<td><strong>Paper 6</strong></td>
<td>John J. Wixted, MD; Daniel Mandell, MD; Christopher Raskett, BS; Vivik Venugopal, BS; Jane B. Lian, PhD; Paul Joseph Fanning, PhD</td>
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<td>10:48 am</td>
<td><strong>Paper 7</strong></td>
<td>Derek J. Klaus, MD; Douglas Crowder; Ethan Scott, BS; Stephen Fening, PhD; Fayez Safadi, PhD; Eric T. Miller, MD</td>
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<td>10:54 am</td>
<td><strong>Paper 8</strong></td>
<td>John J. Wixted, MD; Vivek Venugopal, BS; Christopher Raskett, BS; Jane B. Lian, PhD; Paul Joseph Fanning, PhD</td>
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<td>11:00 am</td>
<td><strong>Discussion</strong></td>
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<td>11:10 am</td>
<td><strong>Paper 9</strong></td>
<td>The Development of Vascularity in a Healing Fracture</td>
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<td>Nicholas Mignemi; Masato Yuasa, PhD; Joey Victor Barnett; Justin Cates, MD, PhD; Jeffry Nyman, PhD, MS; Christopher M. Stutz, MD; William T. Obremskey, MD, MPH; Herbert S. Schwartz, MD; Jonathan G. Schoenecker, MD</td>
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<tr>
<td>11:16 am</td>
<td><strong>Paper 10</strong></td>
<td>Modulating the Vasculature at a Fracture Through the Therapeutic Application of Placental Stem Cells</td>
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<td>Chelsea S. Bahney, PhD; Aaron Taylor, BS; Ali Sadat, DDS; Kathryn Tormos, PhD; Theodore Mclau III, MD; Emin Maltepe, MD, MPH; Ralph Marcucio, PhD</td>
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<tr>
<td>11:22 am</td>
<td><strong>Paper 11</strong></td>
<td>Osteogenic, Stem Cell and Molecular Characterization of the Human Biomembrane (“Induced Membrane”) from Trauma Patients</td>
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<td>Gabriella Ode, MD; Gretchen Hoelscher, MS; Jane Ingram; Synthia Belthea; James F. Keilam, MD; Madhav A. Karunakar, MD; Helen Elizabeth Gruber, PhD; Michael J. Bosse, MD</td>
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<td>11:28 am</td>
<td><strong>Discussion</strong></td>
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<td>11:35 am</td>
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<tr>
<td>12:35 pm</td>
<td><strong>Symposium 3</strong></td>
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<tr>
<td>1:35 pm</td>
<td><strong>The Mangled Extremity- Functionality through Mechanics or Biologics?</strong></td>
<td>Edward J. Harvey, MD; TBD</td>
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<tr>
<td>12:35 pm</td>
<td><strong>Current Concepts for Infection Management in High MESS Legs</strong></td>
<td>Philip Wolinsky, MD</td>
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<td>12:45 pm</td>
<td><strong>Heterotopic Ossification in Trauma and Amputations</strong></td>
<td>Roman Hayda, MD</td>
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<td>12:55 pm</td>
<td><strong>New Concepts in Residual Limb Management and Rehabilitation</strong></td>
<td>Lisa K. Cannada, MD</td>
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<td>1:05 pm</td>
<td><strong>The Peg Leg or the Six Million Dollar Man- Where Are We?</strong></td>
<td>Danielle Melton, MD</td>
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<tr>
<td>1:15 pm</td>
<td><strong>Discussion</strong></td>
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</table>
1:35 pm - Paper Session 3
3:25 pm MESS
Moderators: Edward J. Harvey, MD
Philip Wolinsky, MD

1:35 pm Overview
Edward J. Harvey, MD

1:45 pm Paper 12
Pharmacological Treatment of Compartment Syndrome with Phenylephrine and Dobutamine Was Similar to Fasciotomy
Utku Kandemir, MD; Xuhui Liu, MD; James Moon Mok, MD; Heejae Kang; Erik Nathan Hansen, MD; Mark Rollins, MD, PhD; Hubert T. Kim, MD, PhD

1:51 pm Paper 13
Carbon Monoxide Releasing Molecule-3 (Corm-3) Diminishes the Oxidative Stress and Leukocyte Migration Across Human Endothelium in an In Vitro Model of Compartment Syndrome
Relka Bihari, MSc; Aurelia Bihari, MS; Gediminas Cepinskas, DVM, PhD; David Sanders, MD; Abdel-Rahman Lawendy, FRCS

1:57 pm Paper 14
Use of the Reamer/Irrigator/Aspirator During Intramedullary Nailing Decreases Carotid and Cranial Embolic Events
Anna N. Miller, MD; Dwight D. Deal, BS; James Green, BS; Tim Houle, PhD; William Roy Brown, PhD; Clara R. Thore, PhD; David Stump, PhD; Lawrence X. Webb, MD

2:03 pm Discussion

2:10 pm Paper 15
Superoxide Dismutase Mimetic Disrupts Bacterial Biofilms in an Infected Fracture Model
Elizabeth Anne Regan, MD, PhD; Sarah Elizabeth Lindsay; James Crapo, MD

2:18 pm Paper 16
Rifampin and Minocycline Containing Coating for Orthopaedic Implants with Potent In Vivo Activity
Mark Schallenberger, MS; Todd R. Meyer, PhD

2:26 pm Paper 17
In Vivo Chemistry and Implantable Biomaterial for Targeting Therapeutics
Jose Manuel Mejia Oneto, MD, PhD; Munish C. Gupta, MD; Kent Leach, PhD; Mark A. Lee, MD; Maksim Royzen, PhD

2:34 pm Paper 18
Sonication Has the Potential to Improve Culture Yield in Patients with Clinical Infection
Hemil Hasmukh Maniar, MD; Kristin McPhillips, MD, MPH; Jove Graham, PhD; Michael Foltzer, MD; Thomas R. Bowen, MD; Daniel S. Horwitz, MD

2:42 pm Discussion

2:52 pm Paper 19
Pulsatile Lavage of Open Musculoskeletal Wounds Causes Muscle Necrosis and Dystrophic Calcification
Astor Devon Robertson, MBBS; Stephen Zhao, BS; Thao Nguyen, MD; David E. Jaffe, MD; Carla Hebert, BS; William Lawrence Fourney, PhD; Joseph Stains, PhD; Vincent D. Pellegrini Jr, MD

2:58 pm Paper 20
Failure of Indomethacin and Radiation to Prevent Blast-Induced Heterotopic Ossification in an Animal Model
Astor Devon Robertson; Stephen Zhao; Thao Nguyen, MD; Robert E. Holmes, MD; David E. Jaffe, MD; Juong G. Rhee, PhD; William Lawrence Fourney; Joseph Stains, PhD; Vincent D. Pellegrini Jr, MD

3:04 pm Paper 21
The Surgeon’s Catch-22: A Prospective Study On Inflammation, Wound Failure and Heterotopic Ossification in Combat Wounds
Donald Nicholas Hope, MD; Jonathan Agner Forsberg, MD; Benjamin Kyle Potter, MD; Elizabeth Poller, MD; Eric Elster

3:10 pm Discussion

3:25 pm - 3:45 pm Break
3:45 pm - Symposium 4
4:00 pm Bigger Data-Bigger Problems?
Moderators: Mohit Bhandari, MD, PhD, FRCSC
Gerard P. Sloboagean, MD, MPH, FRCSC
3:45 pm What is Big Data?
Gerard P. Sloboagean, MD, MPH, FRCSC
4:00 pm NHS Database- What it can and cannot Do
TBD
4:10 pm Scandinavian Data-Ongoing Challenges and Successes
Frede Frihagen, MD, PhD
4:20 pm Designing Studies That Utilize Large Databases: The Basics
Mary L. Forte, PhD
4:30 pm The Future of Large Scale Databases: Will They Replace the Clinical Trial?
Saam Morshed, MD, PhD
4:40 pm Discussion

4:50 pm - Paper Session 4
5:30 pm International Research Studies
Moderators: Mohit Bhandari, MD, PhD, FRCSC
Gerard P. Sloboagean, MD, MPH, FRCSC
4:50 pm INORMUS Invited Paper - Trauma Worldwide Data Set
Mohit Bhandari, MD, PhD, FRCSC
4:56 pm Paper 22
Changing the System: Improving Outcome from Major Trauma by Developing a National System of Regional Major Trauma Networks
Christopher G. Moran, MD; Maralyn Woodford; Fiona Lecky, FRCS, MSc, PhD; Antoine Edwards, BA; Tim Coates; Keith Willett

5:02 pm Paper 23
Increased Systemic Complications in Open Femoral Shaft Fractures are Associated with the Degree of Soft-Tissue Injury Rather Than New Injury Severity Score (NISS) Values – A Nationwide Database Analysis
Chris David Weber, MD; Rolf Lefering, PhD; Thomas Dienstknecht, Philipp Kobbe, MD; Richard Martin Sellei, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD
5:08 pm Paper 24
Anatomic Region and the Risk of Adverse Events in Orthopaedic Trauma: An Analysis of 19,000 Patients
Cesar Sebastian Molina, MD; Rachel V. Thakore, BS; Eduardo J. Burgos, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD
5:14 pm Discussion

5:30 pm ADJOURN TO INTERNATIONAL RECEPTION

Thursday, October 16, 2014

7:00 am Continental Breakfast
7:25 am Introduction
Edward J. Harvey, MD
7:30 am Symposium 5
8:40 am Advances in Articular Cartilage Injury and Treatment - Where We Are and Where We’re Going
Moderators: Joseph Borrelli Jr, MD
Susanna Chubinskaya, PhD
7:30 am Cartilage’s Response to Injury
Dominik Haudenschild, PhD
7:40 am Current/Futures Chondroprotective Products
Susanna Chubinskaya, PhD
7:50 am Chondroplasty/Microfracture/Cells for Treatment of Cartilage Injuries
Seth Gasser, MD
8:00 am OsteoChondral Allografts in 2014
James Stannard, MD
8:10 am Joint Preservation: Treatment of Intra-articular Malunions
Christian Krettek, MD, FRACS
8:20 am Discussion
8:40 am - 9:09 am
Paper Session 5
Articular Pathology
Moderators: Joseph Borrelli Jr, MD
Susanna Chubinskaya, PhD

8:40 am Overview
Joseph Borrelli Jr, MD

8:45 am Paper 25
The Dose-Response Effect of the Mast Cell Stabilizer, Ketotifen Fumarate, on Post-Traumatic Joint Contractures
Prism Schneider, MD, PhD;
Herman Johal, MD; Andrew Richard Buckley;
Kevin A. Hildegard, MD

8:51 am Paper 26
Presence and Degree of Matrix Metalloproteinases and Aggrecan Breakdown Products in the Setting of Acute Intra-Articular Fracture
Justin Haller, MD; Molly McFadden, MS;
David Rothberg, MD; Erik Kubiak, MD;
Thomas F. Higgins, MD

8:57 am Paper 27
Pre-Injury Depletion of Macrophages Results in Increased Acute Joint Inflammation Following Articular Fracture
Steven A. Olson, MD; Karsyn N. Bailey;
Bridgette D. Furman, BS;
Kelly Ann Kimmerling, MS; Chia-Lung Wu, PhD;
Janet L. Huebler; Virginia Byers Kraus, PhD;
Farshid Guilak, PhD

9:03 am Discussion
9:09 am - 9:25 am Break

9:25 am - 10:09 am
Symposium 6
Osteoporosis- Are We Closer to Gold Standards?
Moderators: Theodore Miclau III, MD
J. Tracy Watson, MD

9:25 am Symposium 6 Overview
Theodore Miclau III, MD

9:25 am Paper 28
Is There a Future for Femoroplasty in Hip Fracture Prevention? Introducing Anisotropy Restoring Femoroplasty
Edward K. Rodriguez, MD, PhD;
Leandro Grimaldi, MD;
Aidin Masoudi, MD;
Ara Nazarian

9:35 am Paper 29
Comparison of Femoral Head Rotation and Varus Collapse Between a Single and Integrated Dual Screw Intertrochanteric Hip Fracture Fixation Device Using a Chair Rise Biomechanical Model
Aniruddh Nayak, MS; Ian Smithson, MD;
Seth Cooper, MD; Jacob Cox, MD;
Scott Marberry, MD;
Brandon Gerad Santoni, PhD;
Roy Sanders, MD

10:05 am Paper 30
Traumatic Fracture Healing in Geriatric Mice Shows Decreased Callus Formation with Associated Deficiencies in Cell Cycle and Immune Cell Function
Luke A. Lopas, BS;
Nicole Stephanie Belkin, MD;
Patricia Lorraine Mutyaba, BS;
Lee McDaniel Jr, MS;
Kurt D. Hankenson, DVM;
Jaimo Ahn, MD, PhD

10:30 am - 11:04 am
Paper Session 6
Bone Density and Modeling
Moderators: Theodore Miclau III, MD
J. Tracy Watson, MD

10:30 am Overview
Theodore Miclau III, MD

10:40 am Paper 28
Is There a Future for Femoroplasty in Hip Fracture Prevention? Introducing Anisotropy Restoring Femoroplasty
Edward K. Rodriguez, MD, PhD;
Leandro Grimaldi, MD;
Aidin Masoudi, MD;
Ara Nazarian

10:46 am Paper 29
Comparison of Femoral Head Rotation and Varus Collapse Between a Single and Integrated Dual Screw Intertrochanteric Hip Fracture Fixation Device Using a Chair Rise Biomechanical Model
Aniruddh Nayak, MS; Ian Smithson, MD;
Seth Cooper, MD; Jacob Cox, MD;
Scott Marberry, MD;
Brandon Gerad Santoni, PhD;
Roy Sanders, MD

11:04 am - 12:24 pm
Registration Required
(Boxed lunch available)
ORTHOPAEDIC TRAUMA BOOT CAMP

Daniel S. Horwitz, MD & Robert F. Ostrum, MD
Program Chairs

Attendees of this activity can earn up to 12.0 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 orthopaedic 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 15, 2014

6:15 am Registration and Continental Breakfast
7:00 am Welcome and Announcements
Daniel S. Horwitz, MD

Moderator: Daniel S. Horwitz, MD

7:05 am Clavicle Fractures
Robert A. Probe, MD
7:25 am Proximal Humerus Fractures
William M. Ricci, MD
7:45 am Distal Humerus Fractures
James A. Goulet, 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: Steven J. Morgan, MD
10:50 am Lab 2 – Supracondylar Elbow Plating
Lab Leader: James A. Goulet, MD

Moderator: Robert F. Ostrum, 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. Egol, 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
Bruce H. Ziran, MD
2:10 pm Supracondylar Femur Fractures
Paul Tornetta III, MD
2:30 pm Periprosthetic Fractures
Clifford B. Jones, MD
2:50 pm Break
Thursday, October 16, 2014

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
Gerald J. Lang, 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

9:50 am Talus Fractures
Dolfi Herscovici Jr, MD

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 ADJOURN TO INDUSTRY SYMPOSIA Registration Required
(Boxed lunch available)
Wednesday, October 15, 2014

Peter V. Giannoudis, MD, Program Chair
William G. DeLong Jr, MD, Saqib Rehman, MD, Amir M. Matityahu, MD, Program Committee

Attendees of this activity can earn up to 7.5 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 health care.

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
- Understand the pros and cons of getting involved in humanitarian orthopaedic care overseas
- Increase knowledge and understanding of global clinical research
- Become familiar with unique approaches to fractures around the knee joint treated in Brazil

Program

7:00 am  Registration and Continental Breakfast
7:30 am  Introduction
  William G. DeLong Jr, MD
  Peter V. Giannoudis, MD

7:35 am - 8:05 am  Symposium I  Trauma Care Systems-An Update
  Moderator:  Saqib Rehman, MD
  Panelists:  Christopher G. Moran, MD, FRCS
              João Antonio Matheus Guimarães, MD

8:05 am - 10:10 am  Paper Session 1  Femoral and Pelvic Injuries
  Moderators:  Saqib Rehman, MD
              Amir M. Matityahu, MD

8:05 am  Paper 1
  Outcome of Femoral Fractures in Post-Polio Myelitis Patients
  Yoram A. Weil, MD;
  Yechiel N. Gelman, MD;
  Amal Khoury, MD; Rami Mosheiff, MD;
  Meir Liebergall, MD
  Israel

8:13 am  Paper 2
  Atypical Femoral Fractures Associated with Bisphosphonate Use: A Case Series and Discussion on Surgical Treatment
  Andrew Riddick, FRCS (ORTHO), MBBS;
  Tom Fleming;
  Michael Kelly, MBBS, MD, FRCS (Ortho);
  Mehool R. Acharya, MD
  United Kingdom

8:21 am  Paper 3
  Periprosthetic Cortical Bone Remodeling in Patients with Osseo-Integrated Leg Prosthesis
  Jan Paul M. Frolke, MD, PhD;
  Lisanne M. Haket, MSc;
  Nico Verdonschot, MSc;
  Pavel K. Tomaszewski, MSc;
  Henk Van de Meent, MD, PhD
  Netherlands

8:29 am  Discussion

8:44 am  Paper 4
  Predictors of Intra-Operative Fractures in Uncemented and Cemented Hip Hemiarthroplasty for the Treatment of Intra Capsular Neck of Femur Fractures
  Nayef Aslam-Pervez Fahad Siddique Hossain, MBBS, MRCS;
  Mohamed Altayeb Musa;
  Jan Luigi Marcinjak; Shiva Gopal
  United Kingdom

8:52 am  Paper 5
  Are Dislocations Following Hip Hemiarthroplasty a Predictor of Increased Mortality?
  Michalis Panteli, MD; Michalis Panteli, MD;
  Anastasios Lampropoulos;
  Peter V. Giannoudis, MD
  United Kingdom
9:00 am  Paper 6  
Do Proven Cemented Taper-Slip Femoral Stem Hemiarthroplasties Have a Low Complication Rates? The Largest and the Longest Exeter Trauma Stem Survival Study to Date
Salah Hammouche, MD; Catherine Holt, PhD; Jonathan Phillips, MBChB, BSc, MRCS; Brigitte Scammell, MD; Christopher G. Moran, MD, FRCS
United Kingdom

9:08 am  Discussion

9:13 am  Break

9:33 am  Paper 7  
Time to Surgery is Not a Risk Factor for Complications in Garden 3 and 4 Femoral Neck Fractures Treated with Cannulated Screws
Dr. Koki Edson Kojima; Dr. Jorge dos Santos Silva; Marcos De Camargo Leonhardt, MD; Fernando Brandao, MD; Tales Guimaraes
Brazil

9:41 am  Paper 8  
Microvascular Function Following Open (DHS) Versus Less Invasive (PCCP) Extramedullary Fixation of Intertrochanteric Hip Fractures
Matthias Knobe, MD; Gertraud Gradl, MD; Franziska Böhlle; Hagen Andruszkow; Klemens Horst, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD
Germany

9:49 am  Paper 9  
Low Energy Pelvic Fractures of the Elderly Population: Clinical - Radiological Outcome and Associated Prognostic Factors
Tess Greven, MSc; Jack H. Gilmore; Robert M. West, MSc; Arie Van Vugt, PhD; Peter V. Giannoudis, MD; Nikolaos K. Kanakaris, MD
United Kingdom

9:57 am  Paper 10  
Outcome Following Fixation of Comminuted Quadrilateral Plate Fracture- Single Surgeon’s Experience
Theodoros Tosounidis; Sunilbhu Gudipati, MBBS, MRCS; Nikolaos K Kanakaris, MD; Peter V. Giannoudis, MD
United Kingdom

10:05 am  Discussion

10:10 am - 10:30 am  Symposium II  
Orthopaedic Care Overseas: Get Involved!
Moderator: Lewis G. Zirkle Jr, MD
Christopher T. Born, MD
Panelists: Amir M. Matityahu, MD
TBD
Humanitarian Efforts Abroad: Pearls and Pitfalls of Getting Involved in Humanitarian Orthopaedic Care Overseas

10:30 am - 11:36 am  Paper Session 2: Lower Extremity and Foot and Ankle Injuries
Moderators: Axel Ekkernkamp, MD
João Antonio Matheus Guimarães, MD

10:30 am  Paper 11  
The Perceptions of Kenyan Orthopaedic Surgeons Regarding the Role of Visiting Foreign Orthopaedic Surgeons: A Qualitative Study
Luke Harmer, MD, MPH, FRCSC; Rachel Seymour, PhD; Jeff Mutisya Mailu, MB, ChB; United States

10:38 am  Paper 12  
Characterization of Lower Extremity Fracture Patients in Uganda
Jeff Potter, MD; Rodney Mugarura, MBChB, M.Med; Nathan O’Hara, MHA; Trina V. Stephens, MSc; Gerard Slobogean, MD, MPH, FRCSC; Piotr A. Blachut, MD
Canada

10:46 am  Paper 13  
Knee Fusion Using the SIGN Nail
Duane R. Anderson, MD; Lucas Anderson, MD; Abebe Chala Soddo; Justin M. Haller, MD
Ethiopia/United States

10:54 am  Discussion

10:59 am  Paper 14  
Microcirculation of the Healthy Hindfoot. A Proband-Study from the Perspective of the Surgical Approach
Matthias Knobe, MD; John B. Carow; Gertraud Gradl, MD; Hagen Andruszkow; Klemens Horst, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD
Germany

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
11:07 am Paper 15
Inhaled and Oral Corticosteroids in Chronic Lung Disease Patients with Ankle Fractures: Effect on Fracture and Wound Healing
Waseem Jerjes, MD, PhD; Peter V. Giannoudis, MD
United Kingdom

11:15 am Paper 16
Posterior Malleolar Fracture Patterns
Diederik T. Meijer; Lukas Mangnus; Jos Meilema; Sjoerd Stukens; Ernst Philip Steller; Peter Kloen, MD; Gino M. Kerkhoffs, MD, PhD; Job N. Doornberg, MS
Netherlands

11:23 am Paper 17
Treatment of Deltoid Ligament Injuries in Ankle Fracture: Should it Be Repaired or Not?
Ting Li; Xie-yuan Jiang; Manyi Wang, MD
China

11:31 am Discussion

11:36 am Lunch

12:30 pm - 2:02 pm Paper Session 3: Basic Science and Fracture Healing Complications

Moderators: William G. DeLong Jr, MD
Hans-Christoph Pape, MD

12:30 pm Paper 18
What is the Cell Composition and Characteristics of Fibrous Tissue Harvested from the Nonunion Site of Long Bone Atrophic Nonunions?
Richard J. Cuthbert, BSc; Ahmed Lotfy; Hiang Boon Tan, MBBS; Elena Jones, PhD; Peter V. Giannoudis, MD
United Kingdom

12:38 pm Paper 19
Predictors for Nonunion, Reoperation and Infection after Surgical Fixation of Patellar Fracture
Assaf Kadar, MD; Hagagai Sherman, MD; Ely Liviu Steinberg, MD
Israel

12:46 pm Paper 20
Multipotential Stromal Cell Abundance in Cellular Bone Allograft: Comparison with Fresh Age-Matched Iliac Crest Bone and Bone Marrow Aspirate
Thomas Baboolal, PhD; Sally Boxall, PhD; Yasser M. El-Sherbiny, MBBS, MSc, PhD; Timothy Moseley; Richard J. Cuthbert, BSc; Peter V. Giannoudis, MD; Elena Jones, PhD
United Kingdom

12:54 pm Discussion

12:59 pm Paper 21
Free Vascularized Medial Femoral Condyle Corticocancellous Graft in Treating Recalcitrant Upper Extremity Nonunions
Fei Wu
China

1:07 pm Paper 22
Long Bone Defects Managed with the Induced Membrane Technique: Treatment Protocol and Clinical Outcomes
Peter V. Giannoudis, MD; Suribabu Gudipati, MBBS, MRCS; Paul Hanwood, MD; Nikolaos K. Kanakaris, MD
United Kingdom

1:15 pm Paper 23
Tibial Plateau Fractures: Will I Need a Knee Replacement?
Eleanor Davidson, MB, CHB; William M. Oliver, MBBS; Timothy O. White, MD, FRCS; John F. Keating
United Kingdom

1:23 pm Paper 24
Hormone Replacement Therapy in Proximal Humerus Fracture Patients: Effect on Fracture Severity and Fracture Healing
Waseem Jerjes, MD, PhD; Peter V. Giannoudis, MD
United Kingdom

1:31 pm Paper 25
Are Individuals with TNF-B NCO1 Polymorphism at a Higher Risk of Developing Postoperative Sepsis?
Professor Rajeshwar Nath Srivastava Sr.; Kavita Baghel; Saloni Raj
India

1:39 pm Paper 26
Correction of Coxa Vara Deformity and Femur Neck Malunion with an IM SIGN Nail”
Henry Ndasi, MBBS, DS, FCS; Levis Nguku, Kenya
2:02 pm - 3:20 pm  
**Guest Nation Symposium**  
Fractures Around the Knee Joint  

**Introduction**  
*William G. DeLong Jr, MD*

2:05 pm  
**Brazil – Distal Femoral Fractures: What to Do with the Difficult Multifragmented Fracture Patterns**  
*Daniel Balbachevsky, MD*

2:20 pm  
**US – Comminuted Patella Fractures: Is There an Ideal Method of Treatment?**  
*Andrew H. Schmidt, MD*

2:35 pm  
**Brazil – Posterior Shearing Tibial Plateau Fractures: My Preferred Method of Treatment**  
*Paulo Barbosa, MD*

2:50 pm  
**Brazil – Floating Knee Injuries: How Can We Optimize the Outcome?**  
*João Antonio Matheus Guimarães, MD*

3:05 pm  
**Discussion**

3:20 pm  
**Break**

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**Combined Basic Science Focus Forum and International Symposia**

**Global Clinical Research: Bigger Data-Bigger Problems**

3:45 pm - 4:50 pm  
**Symposium 4**  
Bigger Data-Bigger Problems?  

**Moderators:**  
*Mohit Bhandari, MD, PhD*  
*Gerard P. Slobogean, MD, MPH, FRCSC*

3:45 pm  
**What is Big Data?**  
*Gerard P. Slobogean, MD, MPH, FRCSC*

4:00 pm  
**NHS Database-What it can and Cannot Do**  
*TBD*

4:10 pm  
**Scandinavian Data-Ongoing Challenges and Successes**  
*Frede Frihagen, MD, PhD*

4:20 pm  
**Designing Studies That Utilize Large Databases: The Basics**  
*Mary L. Forte, PhD*

4:30 pm  
**The Future of Large Scale Databases-Will They Replace the Clinical Trial?**  
*Saam Morshed, MD, PhD*

4:40 pm  
**Discussion**

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4:50 pm - 5:30 pm  
**Paper Session 4**  
International Research Studies  

**Moderators:**  
*Mohit Bhandari, MD, PhD*  
*Gerard Slobogean, MD, MPH*

4:50 pm  
**INORMUS Invited Paper**  
Trauma Worldwide Data Set  
*Mohit Bhandari, MD, PhD*

4:56 pm  
**OTA BSFF Paper 22**  
Changing the System: Improving Outcome from Major Trauma by Developing a National System of Regional Major Trauma Networks  
*Christopher G. Moran, MD; Maralyn Woodford; Fiona Lecky, FRCS, MSc, PhD; Antoinette Edwards, BA; Tim Coates; Keith Willett*

5:02 pm  
**OTA BSFF Paper 23**  
Increased Systemic Complications in Open Femoral Shaft Fractures Are Associated with the Degree of Soft-Tissue Injury Rather Than New Injury Severity Score (NISS) Values – A Nationwide Database Analysis  
*Chris David Weber, MD; Rolf Lefering, PhD; Thomas Dienstknecht; Philipp Kobbe, MD; Richard Martin Sellei, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD*

5:08 pm  
**OTA BSFF Paper 24**  
Anatomic Region and the Risk of Adverse Events in Orthopaedic Trauma: An Analysis of 19,000 Patients  
*Cesar Sebastian Molina, MD; Rachel V. Thakore, BS; Eduardo J. Burgos, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD*

5:14 pm  
**Discussion**

5:30 pm  
**ADJOURN TO INTERNATIONAL RECEPTION**

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**TAMPA 2014**

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
ICD-10 CODING FOR TRAUMA SURGEONS

Wednesday, October 15, 2014
Margaret Maley, BSN, MS, Senior Consultant, KarenZupko & Associates, Inc.
J. Scott Broderick, MD, Course Chair

Attendees 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.

In addition to a workbook filled with valuable key documentation tables for providers and anatomy illustrations for coding and billing staff, every workshop participant will receive the ICD-10 Zupko Slim Guide to Orthopaedic ICD-10, cheat sheet modified for common sense, condensed to the codes used most commonly to report musculoskeletal diseases, chronic problems and complications. The guide also includes the KZA “Injury Guy” offering a streamline method of identifying the category (first three characters) for any diagnosis from the injury chapter of ICD 10. In addition, the 7th character tables are handy and available for your convenience in the guide.

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 orthopaedics. “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, non-physician providers, administrators and staff.

Areas of coding and reimbursement expertise:
- Adult reconstruction
- Trauma
- Pediatric Orthopaedics
- Operative report review
- Evaluation & Management documentation and review
- Teaching physician guidelines
- ICD-10 CM
- Sports Medicine
- Arthroscopy
- Tumor
- Medical necessity
- Individualized E&M education via the internet
- EOB analysis

Published in:
- AAOS Now!
- Strategic Orthopaedics
- American Academy of Orthopaedic Surgery Bulletin
- Knee Society Newsletter
- AAHKS Newsletter

Margaret is an instructor for the national coding and reimbursement workshops sponsored by the American Academy of Orthopaedic Surgeons with extensive experience working with private practices, employed physicians, academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for:
- AAOS Annual Meeting
- Orthopaedic Trauma Association
- Musculoskeletal Tumor Society
- The American Association of Hip and Knee Surgeons
- Pediatric Orthopaedic Society of North America
- The Western Orthopaedic Association
- Gait and Clinical Movement Analysis Society

WHAT’S YOUR ICD-10 PLAN?

www.ota.org
ICD-10 Coding for Trauma Surgeons, continued

Learning Objectives
Upon successful completion of the Evaluation and Management (E&M) Section, participants will be able to:

- Identify the category (first 3 characters) of ANY ICD-10 code to describe a traumatic injury on a specific body area
- Describe what is required for proper coding of a traumatic fracture using the mnemonic Leo C. Far
- Describe when a 7th character would be required for an orthopaedic diagnosis code
- List 3 things you will do to review and improve your documentation

Course Agenda

8:00 am - 9:00 am  Registration
9:00 am - 12:00 pm  ICD-10 For Orthopaedics
  - Overview of ICD-10 Book
    - Comparing ICD-9 to ICD-10
    - What can we learn from the similarities
  - Making the ICD-10 book more usable
  - What about the chapter on External Causes?
    - Does it matter if the patient was bit by an Orca or hit by an Orca?
  - ICD-10 Format and Structure
  - Injury, Poisoning and Certain Other Consequences of External Causes
    - Architecture & Organization of the Injury Chapter
    - The “injury guy” coding aid to identify the “category” of any injury
  - Using the 7th Character Extension for Injuries and Traumatic Fractures
  - Technology Tips and Demo
    - Classification of Fractures and Fracture Documentation
  - Leo C. Far to master fracture documentation
    - Gustilio
    - Salter-Harris
    - Neer
    - Complications
  - Dislocations
  - Other Injuries for fractures

12:00 pm - 1:00 pm  Lunch

1:00 pm - 4:00 pm  Introduction to IZD-10: The Zupko slim guide to orthopaedic ICD-10
  - Diseases of the Musculoskeletal System
    - Architecture and Organization of the Musculoskeletal Chapter
  - The “Musculoskeletal Block”
    - Complications - what’s new here
  - Pathologic fractures and 7th characters
  - In-depth look at
    - Arthritis
    - Pain
    - Using the IZD-10 slim guide
  - Technology Tips and Demo
    - REVISED Implementation Guide: Making the Most of the Delay
      - Understanding what technology can do for you
      - Knowing what you should do next
  - IZD-10 Zupko Slim Guide

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
# YOUNG PRACTITIONERS FORUM

**Thursday, October 16, 2014**

Lisa K. Cannada, MD  
& Judith A. Siegel, MD, Program Chairs

Attendees of this activity can earn up to 4.0 **AMA PRA Category 1 Credits™**

## 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.

## Objectives

Attendees of the Young Practitioners Forum will:

- Increase knowledge and understanding of the fellowship application process and maximize the fellowship year experience
- Learn important strategies for building your career
- Identify successful time management approaches
- Increase awareness of the effective uses of social media

## Program

### Pocket Guide to a Successful Career Start

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 am</td>
<td>Registration and Continental Breakfast</td>
</tr>
</tbody>
</table>
| 6:30 am | Trauma Profile for Young Practitioners  
Lisa K. Cannada, MD |
| 6:36 am | Tips for Approaching the Fellowship Match  
John Hagedorn, MD |
| 6:42 am | Expectations of a Fellow  
Milton L. “Chip” Routt Jr, MD |
| 6:51 am | Job Searching Strategies:  
Do I Need to Start Now?  
Chad Corrigan, MD  
Stephen L. Davis, MD |
| 7:10 am | How Do I Get What I Need?  
(When I May Not Know All I Need)  
Clifford B. Jones, MD |
| 7:21 am | What You Need to Know Before You Sign the Bottom Line  
M. Bradford Henley, MD |
| 7:37 am | All of those Numbers:  
How Do I Learn Billing and Coding?  
J. Scott Broderick, MD |

### Keynote Address:

**What Really Matters**  
Thomas “Toney” Russell, MD

10:00 am | I was Served: Now What?  
Michael Suk, MD, JD |
10:13 am | Social Media: How to Use It Effectively  
Joshua L. Gary, MD |
10:21 am | Keynote Address:  
What Really Matters  
Thomas “Toney” Russell, MD |
10:52 am | Wrap Up |
11:00 am | ADJOURN TO INDUSTRY SYMPOSIA  
Registration Required  
(Boxed lunch available) |
Thursday, October 16, 2014

1:00 pm  Welcome and Donor Awards

1:20 pm - 2:50 pm  Symposium I  
Contemporary Debates in Orthopaedic Trauma
Moderator: Michael Suk, MD, JD
Faculty: Bruce H. Ziran, MD; Philip R. Wolinsky, MD; Clifford B. Jones, MD; Bruce D. Browner, MD; Samir Mehta, MD; A. Alex Jahangir, MD; Lisa K. Cannada, MD; Manish K. Sethi, MD

“Contemporary Debates in Orthopaedic Trauma” will cover two critical propositions facing orthopaedic trauma today.
Proposition 1: “The US should adopt a standarize approach to hip fracture care.”
Proposition 2: “Implementation of the Affordable Care Act is good for orthopaedic trauma.”

This symposium will be presented in a Lincoln-Douglas style debate format—whereby teams of two will take a side either “Pro” or “Con” on an issue. The “Argument” stage is a 10-minute presentation designed to lay out the background, and compelling reasons why the position is chosen. The “Rebuttal” stage is a 5-minute statement designed to respond to the specifics of the “Argument” presentation.

2:50 pm - 3:20 pm  Break

3:20 pm - 5:10 pm  Paper Session I: Foot, Ankle, Pilon
Moderators: David W. Sanders, MD
               Steven R. Papp, MD

3:20 pm  Paper 31
Does Ankle Aspiration for Acute Ankle Fractures Result in Pain Relief: A Prospective Randomized Double Blinded Placebo Controlled Trial
Timothy J. Ewald, MD; BS, MSc;
Pamela K. Holte; Joseph R. Cass, MD;
William Wood Cross III, MD;
Stephen A. Sems, MD

3:26 pm  Paper 32
Continuous Popliteal Sciatic Nerve Block for Ankle Fractures Reduces Postoperative Opiod Requirements and Rebound Pain: A Prospective Randomized Comparative Trial
David Ding, MD; Arthur Manoli III, BS;
David Galos, MD; Sudheer Jain;
Nirmal C. Tejwani, MD, FRCS

3:32 pm  Discussion

3:37 pm  Paper 33
Intraoperative O-Arm Evaluation on the Effect of Ankle Position on Accuracy of Syndesmotic Reduction
Paul M. Lafferty, MD;
Timothy Hietherly, DO;
Amir R. Rizkala, MD;
Ryan D. Horadzovsky, MD;
Peter A. Cole, MD

3:43 pm  Paper 34
A Prospective Study to Compare Open Reduction and Ligament Reconstruction Versus Percutaneous Screw Fixation of the Tibia Fibular Syndesmosis
David Sanders, MD; Al Walid Hamam, MD;
Christina Tieszer, BSc, MSc;
Abdel-Rahman Lawendy, FRCS

3:49 pm  Paper 35
Syndesmotic Fixation in Supination-External Rotation Ankle Fractures: A Prospective Randomized Study at a Minimum of 4 Years of Follow-Up
Tero Helikki Juhana Kortekangas, MD;
Harri Pakarinen, MD; Olli Savola, MD;
Jaakko Niinimäki; Sannamari Lepojärvi, MD;
Pasi Ohtonen, MSc; Tapio Flinkkilä;
Jukka Ristinimi, MD, PhD

3:55 pm  Discussion

4:00 pm  Paper 36
Syndesmotic Malreduction Results in Poorer Clinical Outcomes in a Supination External Rotation IV Ankle Fracture Cohort
Richard Hinds, MD; Patrick C. Schottel, MD;
Matthew R. Garner, MD; David L. Helfet, MD;
Dean G. Lorich, MD

4:06 pm  Paper 37
Outcomes a Decade After Surgery for Unstable Ankle Fracture: Functional Recovery Does Not Decay with Time
Stephen Gould, MD; Deirdre Regan, BA;
Arthur Manoli III, BS; Kenneth A. Egol, MD

4:12 pm  Paper 38
Functional Outcome After Ankle Fractures and Ankle Fracture-Dislocations: A Prospective Study
Chad Ferguson, MD; Michael Ruffalo, MD;
J. Kent Ellington, MD; Rachel Seymour, PhD;
CAPT (ret) Michael J. Bosse, MD;
CMC-OC Ankle Fracture Research Group

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
Thursday, October 16, 2014

4:18 pm Paper 39  
Correlation Between the Lauge-Hansen Classification and Ligament Injury in Ankle Fractures  
Stephen Warner, MD, PhD; Matthew R. Garner, MD; Richard M. Hinds, MD; Dean G. Lorich, MD

4:24 pm Discussion

4:29 pm Paper 40  
The Early and Medium Term Results of Early Primary Open Reduction and Internal Fixation of AO43-B/C Tibial Pilon Fractures: A Prospective Cohort Study  
Daniel Deakin, FRCS; Pierre Guy, MD; Peter J. O’Brien, MD, FRCS; Henry M. Broekhuyse, MD; Jeremie Larouche, MD; Piotr A. Blachut, MD; Kelly A. Lefaivre, MD

4:35 pm Paper 41  
Type C Tibial Pilon Fractures: Rate and Risk Factors for Complications Following Early Operative Intervention  
Andrew D. Duckworth; Nicholas D. Clement, MRCS Ed; Stuart Aitken, MD; Timothy O. White, MD, FRCS

4:41 pm Paper 42  
Percutaneous Reduction and Screw Fixation in Displaced Intra-Articular Fractures of the Calcaneus  
Saran Tantavisut, MD; J. Lawrence Marsh, MD; Phinit Phisitkul, MD; Matthew D. Karam, MD; Brian O. Westerlind, BA; Yubo Gao, PhD

4:47 pm Paper 43  
Evaluation of Vitamin D Levels and Outcomes After Ankle Fracture Fixation  
Stephen Warner, MD, PhD; Matthew R. Garner, MD; Joseph Nguyen, MPH; Dean G. Lorich, MD

4:53 pm Discussion

Friday, October 17, 2014

6:30 am - 7:45 am Concurrent Break-outs  
(Descriptions on pages 36 - 39)

6:30 am Case Presentations – No charge.  
Seating available first come, first served.

6:30 am Treatment of Pelvic Fractures  
Moderator: Paul Tornetta III, MD  
Faculty: David C. Templeman, MD; Robert V. O’Toole, MD; Jodi Siegel, MD; Robert Ostrum, MD

6:30 am Distal Humerus Fractures: Tips and Tricks  
Moderator: Utku Kandemir, MD  
Panel Members: Michael D. McKee, MD; Michael J. Gardner, MD; Milan K. Sen, MD

6:30 am 2 Minutes - 2 Slides: Tips and Tricks for Nailing and Plating Long Bone Fractures  
Moderator: Pierre Guy, MD  
Faculty: Thomas F. Higgins, MD; Matt L. Graves, MD; Piotr A. Blachut, MD; Christian Krettek, MD, FRACS

6:30 am Skills Labs – No charge. Registration is required.

6:30 am (SL1) SIGN Fracture Care International  
Leader: Lewis G. Zirkle Jr, MD

6:30 am (SL2) IM Fixation of Proximal Tibial Fractures  
Leader: Roy Sanders, MD

The Florida Aquarium is consistently ranked as one of the best aquariums in the country and known for spectacular views of aquatic life. It offers wetlands under the impressive glass dome, bays & beaches, an impressive coral reef gallery to explore an undersea kaleidoscope of fish and rays and the energy of Ocean Commotion! You won’t want to miss this special private event within walking distance from the Tampa Convention Center.
Friday, October 17, 2014

8:00 am - 9:03 am  Paper Session II: Hip/Femur
Moderators: Gilbert R. Ortega, MD, MPH
Hrmy G. Basmajian, MD

8:00 am  Paper 44
A Comparison of Parker’s Ratios
for the Treatment of AO/OTA 31-A2
Fractures with Gamma Nail
or Proximal Femoral Nail Antitrotation:
Is Central Positioning Always
the Best?
James N. Irvine Jr, MD;
Harald K. Widhalm, MD

8:06 am  Paper 45
Incidence, Magnitude, and
Predictors of Shortening in Young
Femoral Neck Fractures
Gerard P. Slobogean, MD, MPH, FRSCC;
David J. Stockton, BS; Daniel Deakin;
Andrew Yamada;
Henry M. Broekhuysse, MD;
Piotr A. Blachut, MD;
Peter J. O'Brien, MD, FRSCC;
Pierre Guy, MD; Kelly A. Lefaivre, MD

8:12 am  Paper 46
Cephalo-Medullary Nail Fixation of
Intertrochanteric Fractures: Are
Two Proximal Screws Better than One?
Rafael Serrano-Riera, MD;
James A. Blair, MD;
Katheryne Downes, MPH;
Roy Sanders, MD

8:18 am  Discussion

8:23 am  Paper 47
The Management and Outcomes of
Femoral Head Fractures
John A. Scolaro, MA, MD;
Geoffrey Marecek, MD;
Reza Firoozabadi, MD;
James C. Krieg, MD;
Milton L. Routt Jr, MD

8:29 am  Paper 48
The Clinical Study of the Treatment
of Femoral Shaft Nonunions After
Nailing with Augmentation Plating
Versus Exchange Nailing
Bosong Zhang, MD

8:35 am  Paper 49
The Results of a
Systematic Approach to
Exchange Nailing for the
Treatment of Aseptic
Femoral Nonunions
Eli Swanson, MD; Eli Garrard, MD;
Derek Bernstein, MD;
Daniel P. O’Connor, PhD;
Mark R. Brinker, MD

8:41 am  Discussion

8:46 am  Paper 50
Working Length and
Proximal Screw Constructs
in Plate Osteosynthesis of
Distal Femur Fractures
Brett D. Crist, MD, FACS;
William H. Harvin, MD;
Gregory J. Della Rocca, MD, PhD;
Yvonne M. Murtha, MD; David A. Volgas, MD;
James P. Stannard, MD

8:52 am  Paper 51
Construct Characteristics Predisposing
to Nonunion After Locked Lateral
Plating of Distal Femur Fractures
Edward K. Rodriguez, MD, PhD;
Lindsay Herder; Jordan Morgan, BS;
David Zurakowski PhD; Michael J. Weaver, MD;
Paul T. Appleton, MD; Mark S. Vrahas, MD

8:58 am  Discussion

9:03 am - 9:33 am  Break

9:33 am - 10:48 am  Concurrent Break-outs
(Descriptions on pages 36 - 39)

9:33 am  Mini-Symposia – No charge.
Seating available first come, first served.

9:33 am  OTA Trauma Registry Database
Moderators: Julie Agel, ATC
Douglas W. Lundy, MD

9:33 am  Circular Fixation: Applications for
the Trauma Surgeon
Moderator: Kevin J. Pugh, MD
Faculty: J. Tracy Watson, MD;
Joseph R. Hsu, MD;
Animesh Agarwal, MD

9:33 am  Rib Fracture Fixation and the Surgical
Management of Flail Chest Injuries:
State of the Art
Moderator: Michael D. McKee, MD
Faculty: Niloofer Dehghan, MD;
Gerard P. Slobogean, MD;
Peter Althouse, MD; Aaron Nauth, MD;
John C. Mayberry, MD;
Emil H. Schemitsch, MD

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
### Friday, October 17, 2014

#### 9:33 am - 10:48 am

**Skills Labs** – No charge. Registration is required.

**9:33 am (SL3)** ORIF Distal Tibia and Fibula Fractures  
**Leader:** Matt L. Graves, MD

**9:33 am (SL4)** ORIF Distal Radius Fractures  
**Leader:** David C. Ring, MD

#### 9:33 am - 10:48 am

**Paper Session III:** Geriatric  
**Moderators:** Pierre Guy, MD  
**Stephen L. Kates, MD**

**9:33 am**  
**Paper 52**  
Hip Fractures are Risky Business: An Analysis of the NSQIP Data  
Rachel V. Thakore, BS; Cesar S. Molina, MD; Eduardo J. Burgos, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

**9:39 am**  
**Paper 53**  
Trauma Triage Scores Inadequately Assess Geriatric Patients  
Matthew S. Wilson, MD; Sanjit R. Konda, MD; Rachel Seymour, PhD; Madhav A. Karunakar, MD; Carolinas Trauma Network Research Group

**9:45 am**  
**Paper 54**  
Development and Validation of a Geriatric Trauma Triage Score  
Sanjit R. Konda, MD; Rachel Seymour, PhD; Arthur Manoli III, BS; Madhav A. Karunakar, MD; Carolinas Trauma Network Research Group

**9:51 am**  
Discussion

**9:56 am**  
**Paper 55**  
Does Anesthesia Type Influence Risk of Perioperative Complications in Hip Fracture Surgery?  
Rachel V. Thakore, BS; Cesar S. Molina, MD; Paul S. Whiting, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

**10:02 am**  
**Paper 56**  
Efficacy of Scheduled Intravenous Acetaminophen Pain-Management Protocol in Hip Fractures  
Alexander Bollinger, MD; Paul Butler, MD; Matthew S. Nies, BS; Terrence J. Endres, MD

#### 10:08 am

**Paper 57**  
The Effect of Preoperative Transthoracic Echocardiogram on Mortality and Surgical Timing in Elderly Hip Fracture Patients  
Kevin Luttrell, MD; Arvind D. Nana, MD

#### 10:14 am

**Paper 58**  
Improving Care for Older Patients with Hip Fracture  
Christopher G. Moran, MD, FRCS; Chris Boulton, BA; Antony Johansen; Robert Wakeman; Keith Willett

#### 10:20 am

Discussion

#### 10:25 am

**Paper 59**  
Surgery Versus Cast Immobilization for Displaced Intra-Articular Distal Radius Fractures in Elderly Patients - A Randomized Controlled Multicenter Trial  
Christoph Bartl; Dirk Stengel, MD, PhD, MSc; Thomas Bruckner, Dipl. Math.; Florian T. Gebhard, MD, PhD

#### 10:31 am

**Paper 60**  
Determinants of Functional Outcome in Distal Radius Fractures in High Functioning Elderly Patients  
Jeremie Larouche, MD, FRCSC; Jeffrey Pike, MD; Gerard Slobogean, MD, MPH, FRCS; Pierre Guy, MD; Henry M. Broekhuysen, MD; Peter J. O’Brien, MD, FRCS; Kelly A. Lefevre, MD

#### 10:37 am

**Paper 61**  
A Comparison of Primary Total Elbow Arthroplasty Versus Secondary Total Elbow Arthroplasty (Following Failed Internal Fixation) for Distal Humeral Fractures of the Elderly  
James Dunwoody, MD, FRCS; Justin L. Hodgins, MD; Milena Vicente, RN; Laura Schemitsch, BA; Patrick Henry, MD; Jeremy Hall, MD, FRCS (ORTH), MEd; Michael D. McKee, MD

#### 10:43 am

Discussion

#### 10:48 am

**Best International Forum Paper**  
TBD

#### 10:56 am

**Guest Nation Introduction**  
Ross K. Leighton, MD, OTA President
Friday, October 17, 2014

10:59 am Guest Nation Presentation
João Antonio Matheus Guimarães, MD
Brazilian Society of Orthopaedic Trauma
“Evolution of Trauma Care System in Brazil: Current Status” and
“Management of Fragility Fractures of the Distal Femur: ORIF, Biological Augmentation or Replacement?”

11:07 am Discussion

11:11 am - 11:41 am

John Border, MD
Memorial Lecturer

Long Term Careers in Orthopaedic Trauma: System Design and Career Development
Andrew R. Burgess, MD
Professor, Vice Chair
UT Health Medical School, Houston, Texas

11:41 am - 12:41 pm Lunch

11:55 am - 12:40 pm Poster Tours – No charge. Registration is required.
(PT1) International Guide: Peter V. Giannoudis, MD
(PT2) Hip, Femur, Geriatric Guide: Michael R. Baumgaertner, MD

12:41 pm - 1:29 pm Symposium II
Damage Control Orthopaedics – Where Are We After a Decade (Century) of Debate and Research?
Moderators: Todd O. McKinley, MD
Steven A. Olson, MD

12:41 pm Historical Perspective - Early Total Care and Ortho Damage Control
Steven A. Olson, MD

12:52 pm Mitochondrial DAMPs and Inflammation After Trauma
Carl J. Hauser, MD

1:03 pm Basic & Clinical Science - Systemic Response to Injury and the Polytrauma Patient
Hans Christoph Pape, MD

1:14 pm Translating Basic Science to Clinical Science
Todd O. McKinley, MD

1:25 pm Future Directions and Opportunities in Damage Control
Robert V. O’Toole, MD

1:36 pm Discussion

1:56 pm Paper 62
Can Thrombelastography Predict Venous Thromboembolic Events in Patients with Severe Extremity Trauma?
Joshua L. Gary, MD; Prism Schneider, MD, PhD, FRCSC; Bryan A. Cotton, MD, MPH; Zayde Radwan, MD; Matthew C. Galpin; John W. Munz, MD; Timothy S. Achor, MD; Mark L. Prasarn, MD

2:02 pm Paper 63
Prediction of Pulmonary Embolism in Trauma Patients: A Risk Assessment Model Based Upon 38,000 Patients
Sheena R. Black, MD, BS; Jeffrey T. Howard, MA; Paul C. Chin, MD, PhD; Adam J. Starr, MD

2:08 pm Paper 64
Evaluation of the Relationship Between Fractures and Hyponatremia
Navneet Pala, MD; Andrew J Marcantonio, DO; Jessica Katharine Paulus, PhD; Janis L Breeze, MPH; Olexandra Koshkina, MD; Mary Beth Hodge; Kalyani Murthy, MD, MS

2:14 pm Discussion

2:19 pm Paper 65
Role of Acute Negative Pressure Wound Therapy Over Primarily Closed Surgical Incisions in Hip, Pelvis, and Acetabular Fracture Surgery—A Prospective Randomized Trial
Brett D. Crist, MD, FACS; Michael S. Khazzam, MD; Gregory J. Della Rocca, MD, PhD; Yvonne M. Murtha, MD; James P. Stannard, MD

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Friday, October 17, 2014

2:25 pm  Paper 66
Early Treatment of Associated Pattern Acetabular Fractures Via an Anterior Approach Does Not Increase Blood Loss or Need for Transfusion
Cesar S. Molina, MD; Priya G. Sivasubramaniam, BA; Andrew R. Fras, MD; Chad M. Corrigan, MD; Hassan R. Mir, MD; Jason M. Evans, MD

2:31 pm  Paper 67
The Value of Thromboelastography in Orthopaedic Trauma Pelvic Fracture Resuscitation
Christiaan N. Mamczak, DO; Bryan A. Boyer, MD; Scott Thomas, MD; Braxton Fritz, BS; Edward Evans, BA, CCP; Benjamin Speicher, BA, CCP; Mark Walsh, MD

2:37 pm  Discussion

2:42 pm  Paper 68
Posterior Wall Acetabular Fractures and Stability
Reza Firoozabadi, MD, MA; Clay A. Spitter, MD; Calvin L. Schlepp, MD; Benjamin Hamilton, BS, MS; Julie Agel, ATC; Paul Tornetta III, MD

2:48 pm  Paper 69
Nonoperative Treatment of Posterior Wall Fractures of the Acetabulum After Dynamic Stress Examination Under Anesthesia: Revisited
Andrew McNamara, MD; John A. Boudreau, MD; Berton R. Moed, MD

2:54 pm  Discussion

2:59 pm  Paper 70
CT After Acetabulum Fracture ORIF - Is There Value?
Michael T. Archdeacon, MD; Steven K. Dailey, MD; Kaylan McClary, BS

3:05 pm  Paper 71
Neurologic Injury in Operatively Treated Acetabular Fractures
Paul Tornetta III, MD; Yelena Bogdan, MD; Clifford B. Jones, MD, FACS; Emil H. Schemitsch, MD; Daniel S. Horwitz, MD; David Sanders, MD; Reza Firoozabadi, MD; Juan De Dios Robinson, BA, MBBS, MSc, FRCS (Ortho); Andrew J. Marcantonio, DO

3:11 pm  Discussion

3:16 pm  Paper 72
Does Removal of the Symphyseal Cartilage in Symphyseal Dislocations Have Any Effect on Final Alignment and Hardware Failure?
Paul Tornetta III, MD; Kyle Lybrand, MD; John Kurylo, MD; Jordan Gross, BS

3:22 pm  Paper 73
Does Lumbopelvic Fixation Add Stability? A Cadaveric Biomechanical Analysis of an Unstable Pelvic Fracture Model
Ehsan Jazini, MD; Oliver O. Tannous, MD; Eric Belin, MD; Christopher M. Hoshino, MD; Robert V. O’Toole, MD; Noelle Klocke, MS; Mir Hussain, BS; Brandon Bucklen, PhD; Steven C. Ludwig, MD

3:28 pm  Discussion

3:33 pm - 4:00 pm  Break

4:00 pm - 5:35 pm  Break-outs

4:00 pm  Mini-Symposia – No charge.
Seating available first come, first served.

4:00 pm  Paper Session V: Polytrauma
Moderators: Michael J. Gardner, MD; Robert P. Dunbar Jr, MD

4:00 pm  History of Nailing
Moderator: Phillip Procter, PhD
Faculty: Thomas A. (Toney) Russell, MD

4:00 pm - 4:32 pm  Paper 74
Clinical Indications for CT Angiography in Lower Extremity Trauma
Joseph T. Patterson, BS; Thomas Fishler, MD; Daniel D. Bohl, MPH; Michael P. Leslie, DO
Friday, October 17, 2014

4:06 pm  Paper 75  
Immediate Weight Bearing as Tolerated Has Improved Outcomes Compared to Non-Weight Bearing After Surgical Stabilization of Midshaft Clavicle Fractures in Polytrauma Patients  
Brian Cunningham, MD; Gilbert R. Ortega, MD, MPH; Anthony S. Rhorer, MD; Brian Miller, MD; Hrayr Basmajian, MD; Ryan McLemore, PhD; Kelly Jackson, NP

4:12 pm  Paper 76  
Management of Clavicle Fractures in Patients with Thoracic Trauma  
Geoffrey Marecek, MD; David Barei, MD, FRCS(C); Julie Agel, ATC; Thomas K. Varghese MD, MS, FACS; Daphne M. Beingsesser, MD

4:18 pm  Paper 77  
The Association of Ipsilateral Rib Fractures with Displacement of Midshaft Clavicle Fractures  
Matthew Ellington, MD; Daniel Jupiter, PhD; Kindyle L. Brennan, PhD; Michael L. Brennan, MD; Daniel L. Stahl, MD

4:25 pm  Discussion

4:32 pm - 5:35 pm  Paper Session VI: Pediatrics/Reconstruction  
Moderators:  David J. Hak, MD  
Cyril Mauffrey, FRCS (ORTH), MD

4:32 pm  Paper 78  
Is There a Higher Risk of infection with Delayed Treatment of Pediatric Seymour Fractures?  
Bryan A. Reyes, BA, MD; Christine A. Ho, MD

4:38 pm  Paper 79  
All Lateral Versus Medial and Lateral Flexible Intramedullary Nails for the Treatment of Pediatric Femoral Shaft Fractures  
Sheena R. Black, MD; Jason M. Cage, DO; Robert L. Wimberly, MD; Jay B. Cook, MD; William T. Gheen, BA; Anthony I. Riccio, MD

4:44 pm  Paper 80  
Below-Knee Cast (BKC) Comparing with Above-Knee Cast (AKC) for Tibial Shaft Fractures in Children  
Rajiv Maharjan, MBBS, MS; Amit Limbu

4:50 pm  Discussion

4:55 pm  Paper 81  
Pediatric Pelvic Ring Injuries: How Benign Are They?  
Christiane G. Kruppa; Justin D. Khoriaty, BS, MS; Debra Sietsema, PhD, RN; Marcel Dudda, MD; Clifford B. Jones, MD, FACS

5:01 pm  Paper 82  
Iliosacral Screw Pathways in the Pediatric Population: Are There Safe Bony Corridors?  
Joshua L. Gary, MD; Matthew Burn, MD; Michael Holzman, MD; John W. Munz, MD; Timothy S. Achor, MD; John A. Heydemann, MD; Matthew C. Galpin; Manickam Kumaravel, MD, FRCS

5:07 pm  Discussion

5:12 pm  Paper 83  
Risk of Hip Arthroplasty After Open Reduction Internal Fixation of a Fracture of the Acetabulum: A Matched Cohort Study  
Sam Si-Hyeong Park, MD; Patrick Henry, MD; David Wasserstein, MD; Michael Paterson; Hans J. Kreder, MD; Richard Jenkinson, MD

5:18 pm  Paper 84  
Clinical Outcome and Survival of Total Hip Arthroplasty After Acetabular Fracture: A Case-Control Study  
Zachary Morison, MSc; Dirk J. Moojen, MD, PhD; Aaron Nauth, MD; Jeremy Hall, MD, FRCS (ORTH), MEd; Michael D. McKee, MD; James P. Waddell, MD; Emil H. Schenitsch, MD

5:24 pm  Paper 85  
A Predictive Model for Complications After Flap Coverage of Open Tibia Fractures  
Brian M. Weatherford, MD; Andrew G. Dubina; Renan C. Castillo, MD; Raymond A. Pensy, MD; W. Andrew Eglseder, MD; Robert V. O’Toole, MD

5:30 pm  Discussion

5:35 pm  ADJOURN TO ‘SUDS AND SCIENCE’ POSTER TOURS (Beverages Served)
Friday, October 17, 2014
5:45 pm - ‘Suds and Science’ Poster Tours
6:30 pm - (PT3) Foot and Ankle
   Guide: Paul Tornetta III, MD
(PT4) Upper Extremity
   Guide: Michael D. McKee, MD

Enjoy a poster tour, lively discussion, and a beverage with colleagues.

Saturday, October 18, 2014
6:30 am - Concurrent Break-outs
7:45 am - (Descriptions on pages 36 - 39)
6:30 am - Case Presentations – No charge.
   Seating available first come, first served.
6:30 am - Humeral Shaft Fractures: When and How to Fix Surgically (Was Sarmiento Wrong?)
   Moderator: Lisa K. Cannada, MD
   Faculty: William T. Obrenskay, MD; Clifford B. Jones, MD
6:30 am - Periprosthetic Fractures
   Moderator: Erik Kublik, MD
   Faculty: George J. Haidukewych, MD; Mark C. Reilly, MD;
   Mark S. Vrahas, MD; David P. Barei, MD
6:30 am - Distal Femur Cases
   Moderator: Jason W. Nascone, MD
   Faculty: Michael J. Gardner, MD; Christopher Doro, MD;
   Hobie Summers, MD; Conor P. Kleweno, MD
6:30 am - Skills Labs – No charge. Registration is required.
6:30 am - (SL5) Knee or Ankle Spanning Ex-Fix
   Leader: Edward A. Perez, MD
6:30 am - (SL6) ORIF of Anterior Acetabular Fractures
   Leader: Michael T. Archdeacon, MD

8:00 am - Symposium III
9:30 am - Tibial Plateau Fractures: Optimizing Surgical Management and Technique in 2014
   Moderator: Michael D. McKee, MD
   Faculty: Ross K. Leighton, MD; Mark S. Vrahas, MD;
   Paul Tornetta III, MD; Aaron Nauth, MD;
   Emil H. Schenmisch, MD

This symposium will review the available evidence and surgical techniques that can be applied to the management of tibial plateau fractures in 2014. In addition, a focus will be place on unusual variants of these injuries that require a specialized approach, including posterior shear fractures and combined fractures and ligamentous injuries.

10:06 am - Paper 87
   Reconstruction Plate Compared with Flexible intramedullary Nailing for Midshaft Clavicular Fractures: A Prospective, Randomized Clinical Trial
   Frans-Jasper Wijdicks; Olivier Van Der Meijden, MD; Marijn Houwert, MD, PhD;
   Martijn Huismans; Marcel G.W. Dijkstra, PhD; Sven Meylaerts, MD, PhD;
   Eric R. Hammacher MD, PhD; Michael Verhofstad; Egbert JMM Verleidesdonk

10:18 am - Discussion

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10:23 am  Paper 89
Long-Term Outcome of Isolated Stable Radial Head Fractures
Andrew D. Duckworth; Neil R. Wickramasinghe, MBBS; Nicholas D. Clement, MRCS Ed; Charles M. Court-Brown, MD; Margaret M. McQueen, MD

10:29 am  Paper 90
Radial Head Replacement for Complex Unstable Fractures of the Radial Head
Andrew D. Duckworth; Neil R. Wickramasinghe, MBBS; Nicholas D. Clement, MRCS Ed; Charles M. Court-Brown, MD; Margaret M. McQueen, MD

10:35 am  Discussion

10:40 am  Paper 91
Early Mobilization Versus Plaster Immobilization of Simple Elbow Dislocations; Results of the Funcsie Multicenter Randomized Clinical Trial
G.I.T. Iordens, MD; Esther M.M. Van Lieshout, PhD; Schep W.L. Niels; Jeroen De Haan; Wim Eduard Tuinebreijer, MD, PhD, MSc, MA; Ed van Beeck; Peter Patka, MD, DMED, PhD; Michael Verholstad; Dennis Den Hartog, PhD

10:46 am  Paper 92
Manipulation Under Anesthesia as a Treatment of Post-Traumatic Elbow Stiffness
Daniel Doty, MD; Clay A. Spitler, MD; Peter J. Nowotarski, MD; D. Marshall Jemison, MD

10:52 am  Paper 93
Galeazzi Fractures: Are DRUJ Injuries Predicted by Current Guidelines?
Paul Tornetta III, MD; Antonios Tsismenakis, MD

10:58 am  Discussion

11:03 am  Paper 94
Modern Treatment of 3 and 4-Part Proximal Humerus Fractures: ORIF Demonstrates Better Range of Shoulder Motion than Reverse Total Shoulder Arthroplasty
Kenneth A. Egol, MD; Christina Capriccioso, BS; Thomas W. Wright, MD; Pierre-Henri Flurin, MD; Joseph D. Zuckerman, MD

11:09 am  Paper 95
Operative Versus Nonoperative Management Humerus Fractures
Reza Firoozabad, MD, MA; Edward Westrick, MD; Benjamin Hamilton, BS, MS; M. Bradford Henley, MD, MBA

11:15 am  Discussion

11:21 am  Paper 96
A Randomised Controlled Trial of Percutaneous Fixation with Kirschner Wires Versus Volar Locking-Plate Fixation in the Treatment of Adult Patients with a Dorsally Displaced Fracture of the Distal Radius
Andrew C. Gray, MD; Matthew L. Costa, FRCS; Amr Rangan, FRCS

11:27 am  Paper 97
Clinical Trial in the Treatment of A2-OTA Type Fractures of the Distal Radius by Casting
Amir R. Kachooei, MD; Ali Moradi, MD; Mohammad H. Ebrahimzadeh, MD

11:33 am  Paper 98
Volar Locking Plate Versus External Fixator/Cast Fixation for the Treatment of Distal Radius Fractures: A Randomized Controlled Prospective Trial
Lidia Koval, MBBS; Herwig Drobetz, MD

11:39 am  Discussion

11:44 am  Paper 99
ORIF Distal Radius: Catastrophic Thinking Leads to Stiff Fingers
Teun Teamis, MD; Arjan G.J. Bot, MD; Emily R. Thornton BSc; David C. Ring, MD

11:50 am  Paper 100
The Role of Depression in Outcomes of Low Energy Distal Radius Fractures in Patients Over 55 Years Old
Jane Yeoh, MD; Jeffrey Pike, MD; Henry M. Broekhuyse, MD; Peter J. O’Brien, MD, FRCS; Kelly A. Lefaivre, MD, FRCS
Saturday, October 18, 2014

12:01 pm Paper 101
Efficacy of Brachial Plexus Block in Post-Operative Pain Control After Distal Radius Fracture Fixation: A Prospective Randomized Study
David Galos, MD; David P. Taormina, MS; Alexander Crespo, BS; David Ding, MD; Anthony Sapienza, MD; Sudheer Jain; Nirmal C. Tejwani, MD, FRCS

12:07 pm Paper 102
Radiation Exposure to the Surgeon’s Hands: A Practical Comparison of Large and Mini C-Arm Fluoroscopy
Michael M. Vosbakian, MD; Charles F. Leinberry, MD; Derek D. Watson; Asif M. Ilyas, MD

12:13 pm Paper 103
Dorsal Screw Penetration with the Use of Volar Plating of Distal Radius Fractures: How can You Best Detect?
Brian W. Hill, MD; Irshad A. Shakir, MD; Lisa K. Cannada, MD

12:19 pm Discussion

12:24 pm Lunch & Poster Tours

12:35 pm - 1:20 pm Poster Tours – No charge. Registration is required.
(PT5) Knee/Tibia
Guide: J. Tracy Watson, MD
(PT6) Reconstruction/General Interest
Guide: Michael J. Gardner, MD

1:24 pm Paper 104
Removal of Implants After Open Reduction and Internal Fixation of Tibial Plateau Fractures Improves Clinical Outcomes
Matthew R. Garner, MD; Marschall B. Berkes, MD; Amelia Ni, BA; Jacqueline F. Birnbaum, BA; Dean G. Lorch, MD

1:30 pm Paper 105
Comparing Outcomes Between Hinged Knee Bracing and No Bracing After Open Reduction Internal Fixation of Tibial Plateau Fractures
Aakash Chauhan, MD, MBA; Alan Silpak, BS; Kathryn D. Peticca, BA; Gregory T. Altman, MD; Daniel T. Altman, MD

1:36 pm Paper 106
Randomized Clinical Trial of Supra- Versus Infra-Patellar Tibial Nailing: A Pilot Study
Daniel S. Chan, MD; Barbara Steverson, RN; Rafael Serrano-Riera, MD; Anthony F. Infante, DO; David T. Watson, MD; H. Claude Sagii, MD; Roy Sanders, MD

1:42 pm Discussion

1:47 pm Paper 107
Type III Open Tibia Fractures: Immediate Antibiotics and Earliest Possible Wound Coverage Minimize Infections
William D. Lack, MD; Madhav A. Karunakar, MD; Marc Angerame, MD; Rachel Seymour, PhD; Stephen H. Sims, MD; James F. Kellam, MD; Michael J. Bosse, MD

1:53 pm Paper 108
Damage Control Plating in Open Tibial Shaft Fractures: A Cheaper and Equally Effective Alternative to Spanning External Fixation
Aaron M. Perdue, MD; Arnold Silverberg, BS; Rachel V. Thakore, BS; Vasanath Sathiyakumar; Daniel J. Stinner, MD; Hassan Riaz Mir, MD; David J. Polga, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

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1:59 pm  Paper 109
The Gustilo-Anderson Classification System As Predictor of Nonunion and Infection in Open Tibia Fractures
Rachel V. Thakore, BS; Elvis L. Francois; Michael Sliuta; Michael A. Benvenuti, BS; Anne K. Smith; Samuel Nwosu, MS; Kristin Archer, PhD; Jesse Ehrenfeld, MD, MPH; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

2:05 pm  Discussion

2:10 pm  Paper 110
Prediction of Tibial Nonunions at Three Months After Intramedullary Nailing
Justin Fowler, MD; Andrew G. Dubina; Renan C. Castillo, MD; Christina L. Boulton, MD; Jason W. Nascone, MD; Marcus F. Sciadini, MD; Christopher T. LeBrun, MD; Robert V. O'Toole, MD

2:16 pm  Paper 111
Does Progressive Radiographic Healing Result in Better Function? A Prospective Evaluation of PCS and Rust Scoring in Tibial Shaft Fractures Treated with IM Nailing
Paul Tornetta III, MD; David Sanders, MD; George Yves Laflamme, MD; Emil H. Schemitsch, MD; Diane Heels-Ansdell, MSc; Jason W. Busse, DC, PhD; Mohit Bhandari, MD, FRCSC, PhD

2:22 pm  Discussion

2:27 pm  Paper 112
The Incidence of Deep Vein Thrombosis and Pulmonary Embolism in Fractures of the Tibia: An Analysis of the National Trauma Databank
Ronald Auer, MD; John Riehl, MD

2:33 pm  Paper 113
Ankle Injuries in Distal Tibial Spiral Shaft Fractures: Results from an Institutional Change in Imaging Protocol
Stephen Warner, MD, PhD; Patrick C. Schottel, MD; Matthew R. Garner, MD; David L. Helfet, MD; Dean G. Lorich, MD

2:39 pm  Discussion

2:44 pm - 3:14 pm  Break
Saturday, October 18, 2014

3:43 pm  Paper 118
Are We Evidence Based? The Effect of Level One Evidence On Surgical Decision Making
Paul Tornetta III, MD; Mohit Bhandari, MD, FRCSC, PhD; Andrew Jawa, MD; Jason L. Pittman, MD, PhD; Scott Koenig, MD

3:49 pm  Paper 119
Determining Pre-injury Physical Function Scores in Orthopaedic Trauma Patients
Stuart R. Ami PhD; Erik Kubiak, MD; Man Hung, PhD; David Rothberg, MD; Thomas F. Higgins, MD; Charles L. Saltzman, MD

3:55 pm  Discussion

4:00 pm  Paper 120
Reduction of Radiation Exposure from C-Arm Fluoroscopy During Orthopaedic Trauma Operations with Introduction of Real-Time Dosimetry
Rita Baumgartner, BS; Kiley Libuit, BS; Dennis Ren, BA; Omar Bakr, BS; Nathan Singh; Utku Kandemir, MD; Meir Tibi Marmor, MD; Saam Morshed, MD

4:06 pm  Paper 121
Assessing the Oncogenic Risk to Patients from Fluoroscopy During Trauma Surgery
Michael J. Beebe, MD; Peter A. Jenkins, PhD; Erik Kubiak, MD; David Rothberg, MD; Thomas F. Higgins, MD

4:12 pm  Discussion

4:17 pm  Paper 122
Adverse Events in Orthopaedic Surgery: Is Trauma More Risky? An Analysis of the NSQIP Data
Cesar S. Molina, MD; Rachel V. Thakore, BS; Eduardo J. Burgos, MD; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

4:23 pm  Paper 123
Diagnosis of Fracture is Associated with Lower Satisfaction with Physician Performance Among Orthopaedic Surgery Patients
John S. Vorhies, MD; Julius A. Bishop, MD

4:29 pm  Paper 124
Does Physician Reimbursement Correlate to Risk in Orthopaedic Trauma?
Rachel V. Thakore, BS; Cesar S. Molina; William T. Obremskey, MD, MPH; Manish K. Sethi, MD

4:35 pm  Discussion

4:40 pm  Paper 125
Cerebral Fat Emboli and Cognitive Impairment Following Reamed Intramedullary Nailing
Kristin Archer, PDH, DPT; Christine M. Abraham, MA; Justin E. Richards, MD; John A. Barwise; William T. Obremskey, MD, MPH

4:46 pm  Paper 126
Sexual Function is Impaired Following Common Orthopaedic Trauma
Brandon Shulman, BA; David P. Taormina, MS; Bianka N. Patsalos-Fox; Roy Davidovitch, MD; Kenneth A. Egol, MD

4:52 pm  Paper 127
Familiar Faces: The Prevalence of Recidivism in Trauma Patients
Heather A. Vallier, MD; Juliann C. Koleszar, BS

4:58 pm  Discussion

5:03 pm  Closing Remarks and ADJOURN
2014 Guest Nation: Brazil

It is a great honor to welcome João Antonio Matheus Guimarães, MD of the Brazilian Society of Orthopaedic Trauma to the 30th OTA Annual Meeting to present on the topics: Evolution of Trauma Care System in Brazil: Current Status as well as Management of Fragility Fractures of the Distal Femur: ORIF, Biological Augmentation or Replacement?

We look forward to an enlightening session from our Brazilian colleagues.

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

Women in Orthopaedic Trauma
Kathy Cramer
Memorial Luncheon
Friday, October 17, 2014
11:41 am – 12:40 pm
Laura S. Phieffer, MD and Lisa M. Truchan, MD
(Registration / ticket required)

New Member Luncheon
Friday, October 17, 2014
11:41 am – 12:40 pm
All new and prospective members invited.

PA/NP Reception
Friday, October 17, 2014
4:00 pm – 5:00 pm
All PA/NP Course attendees invited.

Poster Viewing Hours
Thursday, October 10, 2:30 pm through 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 40.

E-Posters
Run out of time for the posters? No problem... visit the OTA website following the meeting to view 2014 Annual Meeting E-Posters.

Please share the following excellent educational opportunity with your residents.

Comprehensive Fracture Course for Residents
October 15 – 17, 2014
Kyle J. Jeray, MD Chair
Tampa Convention Center

“...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.

Toni M. McLaurin, MD Co-Chair

Exhibit Hours
Thursday: 2:30 pm – 5:00 pm
Friday: 9:00 am – 5:00 pm
Saturday: 9:00 am – 1:30 pm

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
ORTHOPAEDIC TRAUMA FOR PAs and NPs

Thursday, October 16

Clifford B. Jones, MD, Cory A. Collinge, MD,
Daniel J. Coll, MHS, PA-C
& Dennis C. Gregory, 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 19 hours of AAPA Category 1 CME Credit to the program entitled Orthopaedic Trauma for PAs and NPs provided by the Orthopaedic Trauma Association.

Objectives
Attendees of the Orthopaedic Trauma for PAs and NPs course will:

- 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
- Treat and evaluate osteoporosis and bone healing problems
- 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

Thursday, October 16, 2014

1:00 pm Overview
Clifford B. Jones, MD; Cory A. Collinge, MD
Daniel J. Coll, PA-C, PA-C

1:15 pm Ortho Emergencies
Hans-Christoph Pape, MD

1:15 pm - 2:45 pm
Moderator: Dennis C. Gregory, PA-C

1:30 pm Pelvic Ring Injuries
Eval, Phys Exam, Imaging, Binders
Jason M. Evans, MD

1:45 pm Open Fractures
Abx, Infection Prevention, Assessment
Chinedu C. Nwosa, MD

2:00 pm Compartment Syndrome
Physiology, Exam, Treatment
Leslie J. Gullahorn, MD

2:15 pm Questions, Case Presentations
Panel Discussion

2:45 pm - 3:45 pm
Moderator: Dennis C. Gregory, PA-C

2:45 pm Perioperative Infection Risk Management
Clifford B. Jones, MD

3:00 pm Pain Management
IV Tylenol, NSAIDS, Narcotics, PCA, Regional Blocks
Steven A. Barna, MD

3:15 pm Osteoporosis Evaluation & Treatment
Prevalence, Who, Evaluation, Initial Treatment
Debra Sietsema, PhD, RN

3:30 pm Discussion with Expert Panel

3:45 pm Break & Transition to Skills Labs

4:00 pm - 5:00 pm
Skills Labs
2 labs with 30 min rotating sessions

4:00 pm Binder & Pelvic Ex-Fix
Jonathan G. Eastman, MD

4:00 pm Spanning Knee Ex-Fix
Theodore Toan Le, MD

5:00 pm Break & Transition to President’s Message

5:10 pm - 5:40 pm
President’s Message
The Orthopaedic Trauma Association – Enhancing the Care of the Patient – Past, Present, and Future
Ross K. Leighton, MD
OTA President

7:00 pm - 9:00 pm
Welcome Reception
Walk to the Florida Aquarium

www.ota.org
Friday, October 17, 2014

6:30 am - 7:45 am  Case Presentations – No charge.
Seating available first come, first served.
Treatment of Pelvic Fractures
Moderator: Paul Tornetta III, MD
Faculty: David C. Templeman, MD; Robert V. O’Toole, MD; Jodi Siegel, MD; Robert F. Ostrum, MD

Distinct Humerus Fractures: Tips & Tricks
Moderator: Ulku Kandemir, MD
Panel Members: Michael D. McKee, MD; Michael J. Gardner, MD; Milan K. Sen, MD
2 Minutes - 2 Slides: Tips and Tricks for Nailing and Plating Long Bone Fractures
Moderator: Pierre Guy, MD
Faculty: Thomas F. Higgins, MD; Matt L. Graves, MD; Piotr A. Blachut, MD; Christian Krettek, MD, FRACS

8:00 am - 9:30 am  Upper Extremity Fractures I
Moderator: Michael J. Gardner, MD

8:00 am  Clavicle Fractures
Who to Fix and Who to Not
Jeffrey O. Anglen, MD

8:15 am  Proximal Humeral Fractures Op Versus Nonop, Options of ORIF, Hemi, IMN
Michael J. Gardner, MD

8:30 am  Humeral Diaphyseal Fractures
Sarmiento, ORIF, IMN, Rehab
Laura S. Pifiefer, MD

8:45 am  Humeral Supracondylar Fractures
Approach, Reduction, Fixation, Rehab
Lisa K. Cannada, MD

9:00 am  Upper Extremity Cases and Discussion

9:30 am - 10:30 am  Upper Extremity Fractures II
Moderator: Frank A. Liporace, MD

9:30 am  Olecranon Fractures
TBW, Plate, IMN
Steven I. Rabin, MD

9:40 am  Forearm Fractures
Galeazzi Fractures, Timing, Approaches, Complications
David A. Fuller, MD

9:50 am  Distal Radius Fractures
Closed Reduction, Failure of Closed Reduction, Volar Versus Dorsal, Ex Fixs
Gregory L. DeSilva, MD

10:00 am  Upper Extremity Cases and Discussion
10:30 am  Break & Transition to Border Lecture

11:11 am - 11:41 am  John Border, MD
Memorial Lecture
Long Term Careers in Orthopaedic Trauma:
System Design and Career Development
Andrew R. Burgess, MD
Professor, Vice Chair
UT Health Medical School, Houston, Texas

11:41 am  Lunch & Poster Tours

11:55 am - 12:40 pm  Poster Tours – No charge.
Registration is required.
(PT1) International
Guide: Peter V. Giannoudis, MD
(PT2) Hip, Femur, Geriatric
Guide: Michael R. Baumgaertner, MD

12:45 pm - 2:15 pm  Skills Labs
2 labs with 30 min rotating sessions
12:45 pm  Proximal Humeral Locked Plating
Jaimo Ahn, MD, PhD
12:45 pm  Distal Radius Locked Plating
Gregory L. DeSilva, MD

2:30 pm - 4:00 pm  Moderator: Dolfi Herscovici Jr, DO

2:30 pm  Ankle Fractures
Type and Fixation, Syndesmosis, Deltoid Ligament, WB, Rehab
Dolfi Herscovici Jr, DO

2:45 pm  Tibial Pilon Fractures
Distinguish Pilon from Ankle, Timing of Surgery, Approaches
Michael S. Sirkin, MD

3:00 pm  Calcaneal Fractures
Injury, Associated Injuries, Timing
Charles N. Moon, MD

3:10 pm  Talus Fractures
Mechanism, Reduction, Timing
Lisa A. Taitsman, MD

3:20 pm  Lisfranc Injuries
Evaluation and Diagnosis, Treatment
Justin C. Siebler, MD

3:30 pm - 4:00 pm  Expert Panel, Foot and Ankle Injuries
4:00 pm - 5:00 pm  PA/NP Reception

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
ORTHOPAEDIC TRAUMA FOR PAs and NPs, continued

Saturday, October 18, 2014

6:30 am - 7:45 am
OTA Annual Meeting
Skills Labs & Case Presentations

6:30 am
Case Presentations – No charge.
Seating available first come, first served.
Humeral Shaft Fractures: When and How to Fix Surgically (Was Sarmiento Wrong?)
Moderator: Lisa K. Cannada, MD
Faculty: William T. Obremskey, MD; Clifford B. Jones, MD

6:30 am
Skills Labs – No charge.
Registration is required.
(SL5) Knee or Ankle Spanning Ex-Fix
Leader: Edward A. Perez, MD
(SL6) ORIF of Anterior Acetabular Fractures
Leader: Michael T. Archdeacon, MD

8:00 am - 9:30 am
OTA Annual Meeting Symposium
Tibial Plateau Fractures: Optimizing Surgical Management and Technique in 2014
Moderator: Michael D. McKee, MD
Faculty: Ross K. Leighton, MD; Mark S. Vrahas, MD; Paul Tornetta III, MD; Aaron Nauth, MD; Emil H. Schemitsch, MD

This symposium will review the available evidence and surgical techniques that can be applied to the management of tibial plateau fractures in 2014. In addition, a focus will be on unusual variants of these injuries that require a specialized approach, including posterior shear fractures and combined fractures and ligamentous injuries.

9:45 am - 11:15 am
Moderator: Laura Phieffer, MD
Fractures about the Hip and Thigh
9:45 am
Femoral Neck Fractures
ORIF Versus Hemi Versus THA
Christina L. Boulton, MD
10:00 am
IT/ST Fx ORIF
DHS Versus Locked Plate
Laura S. Phieffer, MD
10:15 am
IT/ST Fx IMN Reconstruction Versus Cephalomedullary IMN
Thomas W. Axelrad, MD, PhD
10:30 am
Femoral Shaft Fractures
David Leu, MD
10:45 am
Discussion and Cases

11:15 am - 12:20 pm
Moderator: David Leu, MD
Fractures about the Knee
11:15 am
Femoral Supracondylar Fx
ORIF Versus IMN
Thomas W. Axelrad, MD, PhD
11:30 am
Tibial Plateau Fx
Single Versus Dual incisions
Laura S. Phieffer, MD
11:45 am
Tibial Diaphyseal Fx
Approaches, Proximal and Distal Third Fractures
David Leu, MD
12:00 pm
Discussion and Cases
12:20 pm
Lunch & Poster Tours

1:30 pm - 3:00 pm
Skills Labs
2 labs with 30 min rotating sessions

1:30 pm
Distal Femoral Locked Plating
Daniel L. Horwitz, MD
1:30 pm
Proximal Tibial Locked Plating
Daniel L. Stahl, MD

2:15 pm
Break & Transition to PA/NP Session

3:00 pm - 4:00 pm
Complication Treatment
Infection, Osteomyeltitis, Malunion, Nonunion, Complex Regional Pain Syndrome
Clifford B. Jones, MD; Cory A. Collinge, MD; Laura S. Phieffer, MD; David J. Coll, PA-C; Dennis C. Gregory, PA-C

4:00 pm
Course Review, Evaluation, Adjourn
DePuy Synthes Trauma (IS1)
Current Debates in Proximal Humerus Fracture Treatment Algorithms
Beat Schmutz, PhD, Senior Research Fellow, Queensland University of Technology, Brisbane, Australia
Michael Gardner, MD, Associate Professor of Orthopaedic Surgery, Washington University School of Medicine, St. Louis, MO
Scott Wisotsky, MD, Orthopaedic Associates of West Florida, Clearwater, FL
Xinning Li, MD, Assistant Professor, Sports Medicine & Shoulder and Elbow Surgery, Boston University School of Medicine, Boston, MA

DePuy Synthes Trauma (IS2)
Lower Extremity IM Nailing: Outcomes and Innovations
James C. Krieg, MD, Chief of Orthopedic Trauma and Fracture Care, Rothman Institute, Philadelphia, PA
Matt L. Graves, MD, Associate Professor & Program Director, Orthopedic Surgery Residency Program, University of Mississippi Medical Center, Jackson, MS
Thomas G. DiPasquale, DO, Director, Orthopaedic Trauma Service & Residency Program, Wellspan York Hospital, York, PA

Cardinal Health (IS3)
The Practice of Orthopaedic Trauma: How to Survive the Onslaught
Roy Sanders, MD, President and CMO, Florida Orthopaedic Institute Chief, Department of Orthopaedic Surgery, Tampa General Hospital Clinical Professor of Orthopaedic Surgery, University of South Florida Editor-in-Chief, Journal of Orthopaedic Trauma
A presentation and discussion of changing paradigms in orthopaedic trauma, affecting practice management, employment, payor relationships, and other decision-making.

OrthoFix Orthopaedics (IS4)
New Concepts for Treatment of High Risk Lower Extremity Fractures
Robert Reddix, MD; James McWilliam, MD; Steven Sands, DO; Professor Thierry Bégué
This course will focus on new concepts for treatment of high risk lower extremity fractures including temporary to definitive fixation, and biologic considerations. A panel discussion will be used for interactive learning and audience participation.

KCI (IS5)
The Science and Clinical Evidence for Instillation Therapy and Active Incision Management
William J. Ertl, MD, Chris Lessing, Sr. Manager Scientific Affairs KCI
Shabnam Vaez-zadeh, VP Medical Affairs KCI

Zimmer (IS6)
The Evolution of Flexible Plating: MotionLoc Case Evidence
Erik Kubik, MD and Philip Wolinsky, MD
This session will focus on current clinical experiences with MotionLoc screw technology. After a brief overview of the concept and function of MotionLoc screws, it will consist of a faculty-led case study discussion. The program will include interactive debates with audience participation to examine when flexible plating may or may not be suitable for fracture fixation.

CME credits are not available. Absolutely no recording (audio or video) or photography is permitted.
Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
CASE PRESENTATIONS – No charge. Seating available first come, first served.

Friday, October 17, 2014

6:30 am - 7:45 am  Treatment of Pelvic Fractures
Moderator: Paul Tornetta III, MD
Faculty: David C. Templeman, MD; Robert O'Toole, MD; Jodi Siegel, MD; Robert Ostrum, MD
Cases will be presented that highlight the initial management, operative treatment options, and expected outcomes of pelvic and acetabular fractures. An expert panel will provide personal insight and varying options for these injuries. The session is interactive and participants will give their viewpoints during each case.

6:30 am - 7:45 am  Distal Humerus Fractures: Tips and Tricks
Moderator: Utku Kandemir, MD
Panel: Michael D. McKee, MD; Michael J. Gardner, MD; Milan K. Sen, 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.

6:30 am - 7:45 am  2 Minutes - 2 Slides: Tips and Tricks for Nailing and Plating Long Bone Fractures
Moderator: Pierre Guy, MD
Faculty: Thomas F. Higgins, MD; Matt L. Graves, MD; Piotr A. Blachut, MD; Christian Krettek, MD, FRACS
A series of brief presentations consisting of two slides over two minutes where experts will highlight diagnostic pearls and/or surgical tricks for the care of patients' long bone fractures using intramedullary nails or plates. There will be no formal lecture but rather a focus on case-based learning. Each presentation will be followed by a 5 min discussion.

Saturday, October 18, 2014

6:30 am - 7:45 am  Humeral Shaft Fractures: When and How to Fix Surgically (Was Sarmiento Wrong?)
Moderator: Lisa K. Cannada, MD
Faculty: William T. Obremskey, MD; Clifford B. Jones, MD
This case-based presentation will provide insights into decision making for humeral shaft fractures. The focus will be on indications and contraindications for humeral shaft fixation; approaches and options for operative management. In addition, there will be discussion of treatment of the isolated humeral shaft fracture, illustrated by case scenarios.

Periprosthetic Fractures
Moderator: Erik Kubiak, MD
Faculty: George J. Haidukewych, MD; Mark C. Reilly, MD; Mark S. Vrahas, MD; David P. Barei, MD
This interactive case presentation will focus on periprosthetic fractures proximal, distal femur, and periacetabular periprosthetic fractures. Questions up for discussion include: What is the role of strut grafts? Is there a place for cables and wires? What are the panels go to constructs for peri femur fractures... what has lead to the selection of those constructs? What are the indications to revise the current implants? What are the bail outs? What to do in the face of infection? Wound complication after peri ORIF? What are the bailouts/tactics for treating periprosthetic fractures in the face of severe alterations in local none (bone) metabolism that results from metal ion disease or particle disease?

Distal Femur Cases
Moderator: Jason W. Nascone, MD
Faculty: Michael J. Gardner, MD; Christopher Doro, MD; Hobie Summers, MD; Conor P. Kleweno, MD
This session will review aspects of the surgical management of distal femoral fractures including complex articular fracture management, bone loss, nonunion, and malunions. Session will also review common pitfalls and techniques to avoid common mistakes. Format will be case based with expert panel discussion and allow interaction of faculty and participants.
**MINI-SYMPOSIA** – No charge. Seating available first come, first served.

**Friday, October 17, 2014**

9:33 am - 10:48 am  **OTA Trauma Registry Database**
Moderators: Julie Agel, ATC
Douglas W. Lundy, MD
This symposium will review the OTA sponsored orthopaedic 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. We will also present how the database can be used for maintenance of certification (MOC).

9:33 am - 10:48 am  **Circular Fixation: Applications for the Trauma Surgeon**
Moderator: Kevin J. Pugh, MD
Faculty: J. Tracy Watson, MD; Joseph R. Hsu, MD; Animesh Agarwal, MD
This breakout session will provide an introduction/appreciation for the use of circular external fixation techniques in an adult trauma practice. Lecture with interactive case discussion format.

9:33 am - 10:48 am  **Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art**
Moderator: Michael D. McKee, MD
Faculty: Nilofar Dehghan, MD; Gerard P. Slobogean, MD; Peter Althausen, MD; Aaron Nauth, MD; John C. Mayberry, MD; Emil H. Schemitsch, MD
Surgical intervention for the management of rib fractures and flail chest injuries is becoming increasingly common. The symposium will review the current evidence for rib fracture fixation, discuss surgical techniques and approaches, and present common complications of this novel surgery and their subsequent management.

**Saturday, October 18, 2014**

10:00 am - 11:30 am  **From Good to Great: Improving your Treatment of Acetabular Fractures**
Moderators: Jaimo Ahn, MD, PhD
Samir Mehta, MD
Faculty: David L. Hellet, MD; Milton L. “Chip” Routt, MD; Steven A. Olson, MD; Mark S. Vrathas, MD; Mark C. Reilly, MD
So you think you’re an acetabular fracture surgeon. You’re on the steep part of the learning curve, deal with a variety of challenges. Several members of the OTA who have gone through Masters of Business Administration (MBA) programs will present their experiences on how they have utilized their business skills sets while maintaining active surgical practices. The emphasis will be on how the speakers are actively applying their business degrees to benefit their clinical practices and the field of orthopaedic traumatology.

**Biologic Solutions in the Management of Nonunions and Patients at Risk for Delayed Healing**
Moderator: Samir Mehta, MD
Faculty: Jaimo Ahn, MD, PhD; Robert P. Dunbar Jr, MD; Robert D. Zura, MD; James C. Krieg, MD
Identification of patients at risk for nonunion or delayed union can be difficult. If patients are identified early, there is the potential to intervene and improve functional and clinical outcomes and limiting the effect on quality of life. The purpose of this symposium is to discuss the risk factors associated with nonunion and identify timing and solutions for those patients.

**History of Nailing**
Moderator: Philip Procter, PhD
Faculty: Thomas A. (Toney) Russell, MD
This symposium basis is to provide insight and archival evidence as to the evolution of nailing. Prof. Procter has pieced together a compelling story of a golden age of relationships between surgeons in USA, Sweden, Germany, Ireland, France, and Austria as they all sought surgical and technological solutions to femoral fractures.
Mini Symposia, continued – No charge. Seating available first come, first served.

Saturday, October 18, 2014, cont’d.

From Good to Great (continued)
curve and feeling like you’re doing okay.
Sometimes, things go great in the OR and your CTs look right on. Sometimes they don’t quite go so perfect and, to top it all off, you’re not always sure why or how to make it better. We’ve assembled some of our most trusted and experienced acetabular surgeons to help get you from good to great.

Managing Nonunion: Theory and Practice
Moderator: Christopher G. Moran, FRCS
Faculty: Pierre Guy, MD; John J. Wixted, MD; R. Malcolm Smith, MD
This session involves theoretical orthopaedics and blue sky thinking. It will be fun! It will present a new theory that unifies bone homeostasis, healing and nonunion: the BHN theory. This theory helps us understand how the fixation of fractures alters the mechanical environment at the fracture site and how the surgeon influences this and subsequent fracture healing. The theory gives insight into why nonunion develops and how it should be treated.

How to Establish and Run a Fragility Fracture Program
Moderator: James A. Goulet, MD
Faculty: Peter Althausen, MD; Debra Sietsema, PhD, RN; Karen Cummings, PA-C; Joseph M. Lane, MD; Marc F. Swiontkowski, MD
This mini-symposium will provide a concise and very practical overview of how to establish and run a fragility fracture program at your hospital. The presentations will walk attendees through economic modeling of a fracture fragility program, and outline how to successfully find funding for the mid-level providers essential to these programs. Approaches to patient selection, assessment of bone density and tests for causes of osteoporosis, and optimization of bone health in fragility fracture patients will also be reviewed.

Coding Update and Challenging Case Review
Moderator: J. Scott Broderick, MD
Faculty: William R. Creevy, MD; Austin Hill, MD
This symposium will cover relevant changes in the ICD and CPT codes for 2014-15. Multiple cases that provide billing and coding challenges will be presented and discussed.

Management Strategies for Physeal Fractures Around the Knee and Ankle
Moderator: David A. Podeszwa, MD
Faculty: Christine A. Ho, MD; Robert L. Wimberly, MD; Anthony I. Riccio, MD
A case based and didactic review of common physeal fractures around the knee and ankle. Interactive discussion will cover the evaluation, indications for operative treatment and the operative treatment options for physeal fractures of the distal femur and the proximal and distal tibia. Potential complications and management strategies of the complications will be reviewed.

How Do You Decide Who Should be a “Co-author”?: The Expert Panel Perspective
Moderator: Craig S. Roberts, MD
Faculty: Marc F. Swiontkowski, MD; Paul Tornetta III, MD
Co-authorship on scientific manuscripts is increasingly scrutinized. Decisions about the inclusion and ordering of co-authors in academic and community settings are becoming more complex. The perspectives of an expert panel on contemporary evidence and guidelines can assist in rational decision-making about co-authorship.

Developing a Successful Clinical Research Program
Moderator: Heather A. Vallier, MD
Faculty: Mary A. Breslin, BA; William T. Obremskey, MD, MPH
This mini-symposium is designed for practitioners, research personnel, and physicians in training who aspire to develop a successful clinical research program. Key elements and resources will be described. Efficient and compliant data management strategies will be reviewed. Opportunities for collaboration will be demonstrated.
**Skills Labs** - No charge. Registration is required for all skills labs.

**Friday, October 17, 2014**

6:30 am - 7:45 am  
**SL1** SIGN Fracture Care International  
Lab Leader: Lewis G. Zirkle Jr, MD  
The SIGN IM nail interlocking screw system is designed for use in developing countries and for surgeons everywhere who would like to avoid radiation from use of C-arm. The interlocking screws can be placed consistently and quickly using a mechanical technique which has been used in 112,000 fractures of long bones. The goal of SIGN nail sawbones skills lab is to discuss techniques for stabilization of tibia, femur and humerus fractures. Table instructors will include surgeons who are OTA SIGN Scholars.

6:30 am - 7:45 am  
**SL2** IM Fixation of Proximal Tibial Fractures  
Lab Leader: Roy Sanders, MD  
This is a hands-on sawbones workshop session covering Tips and Techniques of IM Nailing of Proximal Tibia Fractures with a Semi-Extended Approach using a system for distal locking while reviewing adjunctive techniques for obtaining reduction, including blocking screws, reduction plates, distractors and positioning.

9:33 am - 10:48 am  
**SL3** ORIF Distal Tibia and Fibula Fractures  
Lab Leader: Matt L. Graves, MD  
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.

9:33 am - 10:48 am  
**SL4** ORIF Distal Radius Fractures  
Lab Leader: David C. Ring, 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.

**Saturday, October 18, 2014**

6:30 am - 7:45 am  
**SL5** Knee or Ankle Spanning Ex-Fix  
Lab Leader: Edward A. Perez, MD  
This lab will demonstrate the principles for, and application of, temporizing spanning external fixation – damage control orthopaedics. The practical exercise will demonstrate the proper technique and surgical pearls to utilize within the clinical setting.

6:30 am - 7:45 am  
**SL6** ORIF of Anterior Acetabular Fractures  
Lab Leader: Michael T. Archdeacon, MD  
This lab will include hands-on instruction on an anterior intra pelvic approach to aid in access and visualization for the open reduction and internal fixation of anterior acetabular fractures.
POSTER TOURS - No charge. Registration is required.

Friday, October 17, 2014

11:55 am - 12:40 pm (PT1) International
Guide: Peter V. Giannoudis, MD

11:55 am - 12:40 pm (PT2) Hip, Femur, Geriatric
Guide: Michael R. Baumgaertner, MD

5:45 pm - 6:30 pm (PT3) Foot and Ankle
Guide: Paul Tornetta III, MD

5:45 pm - 6:30 pm (PT4) Upper Extremity
Guide: Michael D. McKee, MD

Saturday, October 18, 2014

12:35 pm - 1:20 pm (PT5) Knee/Tibia
Guide: J. Tracy Watson, MD

12:35 pm - 1:20 pm (PT6) Reconstruction/General Interest
Guide: Michael J. Gardner, MD

‘Suds and Science’ Poster Tours
Beverages included with these tours

Don’t miss the opportunity to attend a guided poster tour. Registration is required and space is limited.

Poster Viewing Hours:
Thursday, 10/16, 2:30 pm through Saturday, 10/18, 1:30 pm
**Disclaimer**

The material presented at the 30th 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**

**Tampa Convention Center**

The Orthopaedic Trauma Association’s 30th Annual Meeting will be held in the beautiful, sunny city of Tampa, Florida. The Pre-Meeting Courses, Annual Meeting, Resident Course and Fellowship Interviews will all take place at the Tampa Convention Center.

**About Tampa**

Tampa, Florida, founded in 1824, is situated on the north shore of Tampa Bay in West Central Florida. Tampa Bay is a large harbor located along the Gulf of Mexico on the western coast of Florida. Tampa’s weather is sunny for about 300 days out of the year and 84 degrees is the average temperature in the month of October.

- Tampa offers a unique and exciting experience for everyone. A visit to Tampa’s ever-growing downtown area, or the exciting Channelside and Ybor entertainment districts, will provide visitors with plenty to see and do.
- Tampa has an exciting nightlife, a diverse selection of great restaurants and some of the state’s best attractions, including the Florida Aquarium, Busch Gardens Tampa Bay, the Straz Center for the Performing Arts, the Salvador Dali Museum and Lowry Park Zoo. Visit the new Tampa Bay History Center or the recently opened Tampa Museum of Art, both are state-of-the-art facilities honoring Tampa’s history, heritage, and commitment to the arts.

**Accommodations**

Discounted room rates have been secured for the conference at three area hotels for OTA attendees. Reservations should be made no later than September 22nd.

- **Tampa Marriott Waterside Hotel** (0.1 Miles) - $209 plus taxes/fees
- **Embassy Suites Tampa Downtown** (0.1 Miles) - $209 plus taxes/fees
- **Westin Tampa Harbour Island** (2 Miles) - $171 plus taxes/fees

Hotel reservations should be made via www.ota.org to secure the discounted room rate.

**Tampa Marriott Waterside** (Headquarter Hotel)

A striking silhouette along the Channel Riverwalk, Tampa Marriott Waterside Hotel and Marina near Ybor City overlooks Tampa Bay in the heart of Downtown, located adjacent to the Tampa Convention Center. This world-class hotel’s revitalized lobby, full-service spa, and several delicious restaurants, make it the perfect destination. Part of the Channelside District, the Tampa Marriott is among the most luxurious of hotels in Tampa, Florida, with rooms and suites offering private bay or city view balconies. After a busy day, unwind in one of the hotel’s lounges.

* For ultimate relaxation, try the spa, whirlpool, or rooftop pool!
REGISTRATION and ADDITIONAL INFORMATION

Accommodations, continued
Embassy Suites Tampa (a Hilton property)

Discover the Embassy Suites Tampa – Connected via skybridge to the Tampa Convention Center, this all-suite hotel is convenient to dining and entertainment in downtown Tampa. Relax in your two-room suite, complete with a separate living room, wet bar, and high-speed internet access (for a nominal fee). Refresh in the bathroom featuring a granite vanity and signature bath amenities.

Start your day with a free cooked-to-order breakfast. Unwind at the complimentary Evening Reception each night, including a variety of beverages and snacks. Exercise in the complimentary 24-hour fitness center, and enjoy spectacular views of Tampa Bay from the pool deck.

Ground Transportation
From Tampa International Airport (TPA)

Travel Distance: Approximately 14.48 km/9 miles away (15-20 minute drive). There are a variety of ground transportation options from Tampa International Airport:

• Taxi: Fee is $25 USD
  Taxi cab service is provided from the Commercial Ground Transportation Quadrants located in all four corners of the Baggage Claim Level

• SuperShuttle (shared passenger service)
  (800) 282-6817 or (727) 572-1111
  Service is provided from the Commercial Ground Transportation Quadrants located at all four corners of the Baggage Claim Level 1

• Hillsborough Area Regional Transit Authority (HART) route 30, which runs every 30 minutes between the airport and downtown. The bus trip takes approximately 40 minutes. The HART fee schedule can be found at http://www.gohart.org/ride_guide/fares/fares.html

• Blue One Transportation: Fee is $13 USD
  No reservations are needed. Call their transportation Hotline (813) 785-9285 when your flight lands

Welcome Reception
Thursday, October 16, 2014 • 7:00 pm - 9:00 pm
The Florida Aquarium

The Florida Aquarium is consistently ranked as one of the best aquariums in the country and known for spectacular views of aquatic life. It offers wetlands under the impressive glass dome, bays & beaches, an impressive coral reef gallery to explore an undersea kaleidoscope of fish and rays and the energy of Ocean Commotion!

You won’t want to miss this special private event within walking distance from the Tampa Convention Center.
Registration Information – Register Early!

- Register online at www.ota.org using your OTA username.
  E-mail ota@aaos.org for your OTA username
- FAX completed form directly to: (847) 823-0536
- Check made payable to OTA and drawn from a US bank in
  US dollars. Mail form and check by September 15 to:
  OTA 6300 N. River Road, Suite 727, Rosemont, IL, 60068 USA
- Registrations postmarked after September 15 will not be processed;
  on-site registrations will require an additional $100 USD late fee
- All pre-registrations will receive confirmation by E-mail.
  Badges will NOT be mailed this year; rather picked up on-site.
  Pre-register online until October 1, 2014
- The pre-registration form may be photocopied as needed

On-site Registration

- Registrations received after
  October 1 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: 2:00 pm – 6:00 pm
  Wednesday - Saturday:
  6:15 am – 5:00 pm
- Exhibitors must register through the OTA office - contact ota@aaos.org

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, if cancelled prior to October 15, 2014
- No refunds after October 15, 2014

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 in the exhibit hall.

Getting Around Tampa

By Taxi

- Taxi to the Port of Tampa (one mile from the Hotel)
  Approximately $5, one-way
- Taxi to the Local Transit System/Hartline (3 blocks)
  Approximately $5, one-way

Ride the Streetcar for Half Price

The TECO Streetcar System is an electric streetcar which connects
Downtown Tampa, Ybor City, and Channel district. TECO Streetcar
has 11 stations with services every 15 to every 30 minutes.
With your OTA Badge, you will get a 50% discount.
Take advantage of this great savings and tour Tampa’s downtown
attractions, restaurants and retail shops along the Streetcar line.
Simply show your OTA badge to the motor person upon boarding the
Streetcar.

Hours of Operation:
Monday - Thursday: 12 pm - 10 pm
Friday - Saturday: 11 am - 2 am
Sunday - 12 pm - 8 pm

Visit the OTA website for additional discounts for OTA attendees
only: Tampa Convention Center Delegate Discount Program

NEW this year! All Badges will be picked up at the Registration Desk in Tampa.
### Meeting At-a-Glance

#### Wednesday, October 15, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 am - 8:35 am</td>
<td>Symposium 1: Biomechanical Concepts for Fracture Fixation</td>
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<tr>
<td>8:35 am - 9:15 am</td>
<td>Paper Session 1: Biomechanically-Directed Fixation</td>
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<tr>
<td>9:35 am - 10:30 am</td>
<td>Symposium 2: Bone Graft Substitution and Augmentation</td>
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<tr>
<td>10:30 am - 11:35 am</td>
<td>Paper Session 2: Inflammation and Bone Healing</td>
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<td>12:35 pm - 1:35 pm</td>
<td>Symposium 3: The Mangled Extremity-Functionality through Mechanics or Biologics?</td>
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<td>1:35 pm - 2:35 pm</td>
<td>Paper Session 3: MESS</td>
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<td>3:45 pm - 4:50 pm</td>
<td>Symposium 4: Bigger Data-Bigger Problems?</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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#### Orthopaedic Trauma Boot Camp

- 7:05 am - 10:25 am: Orthopaedic Trauma Boot Camp Presentations
- 9:00 am - 9:50 am: Lab 1 – Distal Femoral Plating
- 9:50 am – 11:00 am: Orthopaedic Trauma Boot Camp Presentations

#### International Orthopaedic Trauma Care Forum

- 7:35 am - 8:05 am: Symposium 1: Trauma Care Systems- An Update
- 8:05 am - 10:10 am: Paper Session 1: Femoral and Pelvic Injuries
- 10:10 am - 10:30 am: Symposium II: Orthopaedic Care Overseas – Get Involved!
- 10:30 am - 11:36 am: Paper Session 2: Lower Extremity and Foot and Ankle Injuries
- 10:30 am - 11:36 am: Paper Session 3: Basic Science and Fracture Healing Complications
- 2:02 pm - 3:20 pm: Guest Nation Symposium: Fractures Around the Knee Joint
- 3:45 pm - 4:50 pm: Symposium 4: Bigger Data-Bigger Problems?
- 4:50 pm - 5:30 pm: Paper Session 4: International Research Studies
- 5:30 pm - 6:30 pm: International Reception

#### ICD-10 Coding for Trauma Surgeons

- 9:00 am - 12:00 pm: ICD-10 For Orthopaedics Introduction to ICD-10: The Zupko Slim Guide to Orthopaedic ICD-10
- 1:00 pm - 4:00 pm: ICD-10 Coding for Trauma Surgeons

#### Thursday, October 16, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:25 am</td>
<td>Introduction</td>
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<tr>
<td>7:30 am - 8:40 am</td>
<td>Symposium 5: Advances in Articular Cartilage Injury and Treatment - Where We Are and Where We’re Going</td>
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<tr>
<td>8:40 am - 9:09 am</td>
<td>Paper Session 5: Articular Pathology</td>
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<td>9:25 am - 10:30 am</td>
<td>Symposium 6: Osteoporosis- Are We Closer to Gold Standards?</td>
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<tr>
<td>10:30 am - 11:04 am</td>
<td>Paper Session 6: Bone Density and Modeling</td>
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#### Young Practitioners Forum

- 6:30 am - 10:32 am: Pocket Guide to a Successful Career Start
- 10:21 am - 10:52 am: Keynote Address: What Really Matters Thomas “Toney” Russell, MD

#### Orthopaedic Trauma Boot Camp

- 7:00 am - 8:50 am: Orthopaedic Trauma Boot Camp Presentations
- 9:00 am - 9:50 am: Lab 2 – Pilon Ankle Plating
- 9:50 am – 11:00 am: Orthopaedic Trauma Boot Camp Presentations

#### Industry Symposia

- Thursday, October 16, 11:00 am: Registration Required - Boxed lunch available

#### Annual Meeting

- 1:00 pm: Welcome and Donor Awards
- 1:20 pm - 2:50 pm: Symposium I: Contemporary Debates in Orthopaedic Trauma
- 3:20 pm - 5:10 pm: Paper Session I: Foot, Ankle, Pilon
- 5:10 pm - 5:40 pm: President’s Message: The Orthopaedic Trauma Association – Enhancing the Care of the Patient – Past, Present, and Future
- Ross K. Leighton, MD, OTA President
- 5:40 pm - 6:40 pm: OTA Business Meeting
- 7:00 pm - 9:00 pm: Welcome Reception: The Florida Aquarium

#### PA/NP Course

- 1:00 pm - 3:45 pm: PA/NP Course Presentations
- 4:00 pm - 5:00 pm: PA/NP Course Presentations
- 5:10 pm - 5:40 pm: President’s Message
### Friday, October 17, 2014

**ANNUAL MEETING**

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<td>Case Presentations</td>
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<td>Paper Session II: Hip/Femur</td>
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<td>(SL3) ORIF Distal Tibia and Fibula Fractures</td>
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<td>9:33 am</td>
<td>(SL4) ORIF Distal Radius Fractures</td>
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<td>9:33 am</td>
<td>Paper Session III: Geriatric</td>
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<td>11:11 am</td>
<td>John Border, MD Memorial Lecturer</td>
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<td>11:11 am</td>
<td>Long Term Careers in Orthopaedic Trauma: System Design and Career Development</td>
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<td>11:41 am</td>
<td>Women in Orthopaedic Trauma Kathy Cramer Memorial Luncheon</td>
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<td>11:41 am</td>
<td>New Member Luncheon</td>
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<td>11:55 am</td>
<td>Poster Tours</td>
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<tr>
<td>12:19 pm</td>
<td>Symposium II: DCO – Where Are We After a Decade (Century) of Debate and Research?</td>
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<td>2:19 pm</td>
<td>Paper Session IV: Pelvis and Acetabulum</td>
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<td>Mini-Symposia</td>
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<td>4:00 pm</td>
<td>Paper Session V: Polytrauma</td>
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<td>4:32 pm</td>
<td>Paper Session VI: Pediatrics/Reconstruction</td>
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<td>5:35 pm</td>
<td>Military Reception</td>
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<td>5:45 pm</td>
<td>‘Suds and Science’ Poster Tours</td>
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<td>5:45 pm</td>
<td>Beverages included with these tours</td>
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<td>8:00 am</td>
<td>Symposium III: Tibial Plateau Fractures: Optimizing Surgical Management and Technique in 2014</td>
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<td>Mini-Symposia</td>
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<td>1:24 pm</td>
<td>Paper Session VIII: Knee/Tibial Plateau</td>
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<td>2:44 pm</td>
<td>Paper Session IX: Topics of General Interest</td>
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<td>Proximal Humeral Locked Plating</td>
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<td>Humeral Shaft Fractures: When and How to Fix Surgically (was Sarmiento Wrong?)</td>
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<td>6:30 am</td>
<td>Periprosthetic Fractures</td>
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<td>6:30 am</td>
<td>Distal Femur Cases</td>
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<tr>
<td>10:00 am</td>
<td>(PT5) Knee/Tibia</td>
</tr>
<tr>
<td>10:00 am</td>
<td>(PT6) Reconstruction/General Interest</td>
</tr>
<tr>
<td>1:24 pm</td>
<td>Mini-Symposia</td>
</tr>
<tr>
<td>1:24 pm</td>
<td>Paper Session VIII: Knee/Tibial Plateau</td>
</tr>
<tr>
<td>2:44 pm</td>
<td>Paper Session IX: Topics of General Interest</td>
</tr>
<tr>
<td>5:03 pm</td>
<td>Closing Remarks and Adjourn</td>
</tr>
<tr>
<td>11:11 am</td>
<td>Guest Nation Presentation</td>
</tr>
<tr>
<td>11:11 am</td>
<td>John Border, MD Memorial Lecturer</td>
</tr>
<tr>
<td>11:11 am</td>
<td>Andrew R. Burgess, MD</td>
</tr>
<tr>
<td>11:41 am</td>
<td>New Member Luncheon</td>
</tr>
<tr>
<td>11:41 am</td>
<td>Lunch &amp; Poster Tours</td>
</tr>
<tr>
<td>11:41 am</td>
<td>Skills Labs</td>
</tr>
<tr>
<td>11:41 am</td>
<td>Proximal Humeral Locked Plating</td>
</tr>
<tr>
<td>11:41 am</td>
<td>Distal Radius Locked Plating</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Skills Labs</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Distal Femoral Locked Plating</td>
</tr>
<tr>
<td>1:30 pm</td>
<td>Proximal Tibial Locked Plating</td>
</tr>
<tr>
<td>3:00 pm</td>
<td>PA/NP Course Presentations</td>
</tr>
</tbody>
</table>

**TAMPA 2014**

Pre-Registration Deadline October 1, 2014; On-site Registration - additional $100. See Page 47.
Check List

☐ Completed the Meeting Registration Form?
☐ Indicated your preferences for Industry Symposia, Skills Labs and Guided Poster Tours (page 47)?
☐ Included your Payment with the Registration Form?
☐ Made your hotel reservation with the Tampa Marriott Waterside Hotel, Westin Tampa Harbour Island or Embassy Suites Tampa Downtown online at www.ota.org?

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 the OTA staff office:
Orthopaedic Trauma Association
6300 N. River Road, Suite 727
Rosemont, IL 60018-4226 USA

New this year! All Badges will be picked up at the Registration Desk in Tampa - no badges will be mailed.
• Pre-registrations will receive confirmation via E-mail. Badges will be printed and picked up in the Express Registration line in Tampa.
  Please REMEMBER to bring your meeting registration confirmation.

Registration faxed or post-marked by September 15, 2014
Register on-line by October 1, 2014

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)

FIRST NAME  FAMILY (LAST) NAME  DEGREE

ADDRESS  Home  Office Address

CITY  STATE/PROVINCE  POSTAL CODE  COUNTRY

(  )  (  )

TELEPHONE  Home  Office  Cell  FAX  E-MAIL  Office  Personal

ANNUAL MEETING REGISTRATION FEES U.S. FUNDS

Postmarked by: September 15, 2014. Fees increased $100 USD on site.

- OTA Member (includes Candidate Members in their Residency) $250.00 USD
- Non-member $750.00 USD
- Medical Resident Non-member or Non-member Health Care Personnel $450.00 USD

Please provide Residency Program Director:

WEDNESDAY, OCTOBER 15

- Basic Science Focus Forum – pg. 5 $350.00 USD
- Orthopaedic Trauma Boot Camp – pg. 10 $350.00 USD
- International Trauma Care Forum – pg. 12 $75.00 USD
- International Reception (All International Participants Welcome) – pg. 15 FREE
- Masters Level Trauma Coding Course – pg. 16 $300.00 USD $200.00 USD

THURSDAY, OCTOBER 16

- Young Practitioners Forum – pg. 18 $75.00 USD $75.00 USD
- Orthopaedic Trauma for PAs and NPs 10/16/14 – 10/18/14 – pg. 32 $400.00 USD $275.00 USD
- Welcome Reception – pg. 42 FREE
- Guest Reception Ticket(s) # of persons attending X $65.00 USD

FRIDAY, OCTOBER 17

- Women in Orthopaedic Trauma Luncheon – pg. 31 FREE
- New Member Luncheon – pg. 31 FREE
- Military Reception – pg. 31 FREE
- PA/NP Reception – pg. 31 FREE

TOTAL $

RESERVED SESSIONS | TICKETS REQUIRED

1st Choice # (Only check one)  2nd Choice # (Only check one)

Industry Symposia – pg. 35
Thursday Lunch 11:00 am – 12:45 pm IS1 IS2 IS3 IS4 IS5 IS6 IS1 IS2 IS3 IS4 IS5 IS6
Poster Tours – pg. 40
Friday Lunch 11:55 am – 12:40 pm PT1 PT2 PT1 PT2
Friday Evening 5:45 pm – 6:30 pm PT3 PT4 PT3 PT4
Saturday Lunch 12:35 pm – 1:20 pm PT5 PT6 PT5 PT6
Skills Labs – pg. 39
Friday Morning 6:30 am – 7:45 am SL1 SL2 SL1 SL2
Friday Morning 7:30 am – 10:48 am SL3 SL4 SL3 SL4
Saturday Morning 6:30 am – 7:45 am SL5 SL6 SL5 SL6

METHOD OF PAYMENT

- Check Enclosed  VISA  MasterCard  American Express

CARD NUMBER  EXP. DATE  CVV #

NAME (AS IT APPEARS ON CARD)

SIGNATURE (I AGREE TO PAY ACCORDING TO THE CREDIT CARD ISSUER AGREEMENT)

REFUNDS: OTA office must receive written notice of cancellation for a refund less a $100.00 USD processing fee. NO refunds after October 15, 2014.

Make checks payable to: Orthopaedic Trauma Association, 6300 N. River Road, Suite 727, Rosemont, IL, 60068 USA

REGISTER ON-SITE AFTER OCTOBER 1, 2014 - AN ADDITIONAL $100 USD FEE WILL APPLY.

All company representatives must use Exhibitor Registration Form (email ota@aaos.org).
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
Save the Date

Membership Application Deadlines
(Apply Online)
November 1, 2014

2015 OTA Events

January 9 - 10, 2015
Advanced Trauma Techniques Course for Residents
Houston, Texas

February 19 - 21, 2015
AAOS/OTA Trauma Update
Orlando, Florida

March 24, 2015
OTA Specialty Day
Las Vegas, Nevada

April 22 - 25, 2015
OTA Spring Comprehensive Fracture Course for Residents
Chicagoland, Illinois

April 23 - 26, 2015
OTA Fellows Course
Boston, Massachusetts

October 7 - 9, 2015
OTA Comprehensive Fracture Course for Residents

October 7 - 10, 2015
OTA Annual Meeting
Annual Meeting Abstract Deadline: February 1, 2015

Webinars

Visit the OTA website for dates:

Tibial Plateau Fractures: Fixation Strategies and Approaches
Moderator: Robert V. O’Toole, MD

Distal Femur Fractures: Options and Pearls
Moderator: Cory A. Collinge, MD

Fractures of the Distal Humerus: Fixation Pearls & Arthroplasty Options
Moderator: Kenneth A. Egol, MD

Pilon Fractures: Strategies to Optimize Outcomes
Moderator: David P. Barei, MD
Pre-registration Deadlines:
Registration faxed or post-marked by September 15, 2014
Register on-line by October 1, 2014
Hotel Deadlines: September 22, 2014

CME Credits
The OTA 30th Anniversary Annual Meeting is approved for 21 AMA PRA Category 1 Credits™. Additional credits are also available for the following pre-meeting activities:

- Basic Science Focus Forum (11.75 AMA PRA Category 1 Credits™)
- ICD-10 Coding for Trauma Surgeons (6 AMA PRA Category 1 Credits™)
- International Trauma Care Forum (7.5 AMA PRA Category 1 Credits™)
- Orthopaedic Trauma Boot Camp (12 AMA PRA Category 1 Credits™)
- Young Practitioners Forum (4 AMA PRA Category 1 Credits™)
- PA/NP Course (19 AAPA Category 1 CME Credit)