2015 ANNUAL MEETING
October 7-10, 2015

Pre-meeting Courses
Basic Science Focus Forum
International Orthopaedic Trauma Care Forum
ICD-10 Coding for Trauma Surgeons
Residents Comprehensive Fracture Course
Orthopaedic Trauma Boot Camp
Orthopaedic Trauma for PAs & NPs
Young Practitioners Forum

Manchester Grand Hyatt
San Diego, California

23+ CME

www.ota.org
The Orthopaedic Trauma Association gratefully acknowledges 2014 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.

**Platinum Award** ($150,000 - $249,999)
- Arthrex
- DePuy Synthes Trauma
- Smith + Nephew

**Gold Award** ($100,000 - $149,999)
- Cardinal Health
- Stryker
- Zimmer

**Silver Award** ($75,000 - $99,999)
- Biomet

**Copper Award** ($25,000 - $49,999)
- Foundation for Orthopedic Trauma

**Sponsor Award** ($5,000 - $24,999)
- Bioventus
- PFS Med Inc
Dear Colleagues:

On behalf of the OTA Program Committee and President Ted Miclau, MD, I am pleased to invite you to the 31st Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in San Diego, California, October 7 – 10, 2015. The tremendous planning efforts of the committee will provide the most comprehensive and up-to-date program on the treatment of musculoskeletal injury yet.

This year’s meeting will highlight four main symposia: a discussion of the opioid epidemic and the problem and societal costs of alcohol and nicotine addiction; much anticipated first release of results of the FLOW study; management of acetabular fractures in patients over 60; and the management of elbow trauma. New this year is a podium session of the committee’s “highlight” papers, chosen as the best of the best abstracts. Concurrent with the paper sessions, the mini-symposia, case presentations, and skills labs will concentrate on more focused topics, and allow attendees to customize their meeting experience. The scientific program will include the most relevant and scientifically sound research submitted. More than 102 podium presentations and 132 posters were selected by the Program Committee from a record 910 abstracts submitted.

Five distinct CME courses precede the Annual Meeting, beginning with the Basic Science Focus Forum, chaired by Ed Harvey, MD. Beginning Wednesday, October 7th, this one and one-half day event 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.

Wednesday will also feature the highly successful International Forum under the direction of Peter V. Giannoudis, MD. We welcome Germany as our Guest Nation during a symposium covering acetabulum fractures in the elderly. 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 Jodi Siegel, MD and 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 Cory Collinge, MD, Michael Gardner, MD, Dan Coll, PA-C, and Dennis Gregory, PA-C, will run concurrent with the Annual Meeting from Thursday, October 8th to Saturday, October 10th. The OTA Residents Fracture Course, chaired by Kyle J. Jeray, MD, and Toni M. McLaurin, MD, will also run concomitant to the Annual Meeting from Wednesday, October 7 to Friday, October 9th.

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 the 2015 OTA Annual Meeting.

Please consider joining us in San Diego!

Robert V O’Toole, MD
Program Chair
Dear Colleagues,

Welcome back to San Diego and the Manchester Grand Hyatt Hotel! We are very excited to host all of you again in San Diego for the 31st Annual OTA Meeting. If you have not already registered, I hope you will decide to do so. This year Columbus Day falls on the Monday following our meeting, so hopefully you can plan to stay an extra day or two in our beautiful destination city.

The meeting is located on the west end of the Gaslamp District, which continues to grow in selection of evening activities and great restaurants. Seaport Village, the Midway Museum and Maritime Museums are all within walking distance, and Balboa Park is home to several other great museums. Other family activities include Sea World, The New Children’s Museum, and the world famous San Diego Zoo. There are plenty of nearby parks, running and bike routes, area golf courses, and beaches.

October is the last of the dry months for San Diego and is usually a transition period with variable weather. Normal daily temperature is 67 degrees, and ranging from 61 to 74 degrees at Lindbergh Field. If a warm dry Santa Ana wind comes in, temperatures can approach the 90’s. Plan to have a sweatshirt or jacket for most evenings are quite cool along the coast.

Recently, I have heard attendees concerned that the meeting has grown too big. I am also one who used to resist change and feel the “overwhelm” of big meetings. However, I am now embracing it with a focus on maintaining the many positives. I am planning to select my breakouts to balance out my education and practical skills. I am planning to socialize and connect with my many Orthopaedic trauma friends across the country and world. I am planning to learn about the latest research in our great specialty.

As many of you know, I have been passionately pursuing a number of different endeavors over the past few years. Like you, I try to juggle all that I put on my plate. As I continue to grow and learn, I find it very helpful to clarify and create Reciprocity in my roles and relationships, which is the “R” or second of The 8 PRACTICEs of Highly Successful Surgeons. I hope that many of you will be intrigued enough to attend the Saturday breakout, where I will present the information in a highly interactive format as educator and Surgeon Consultant. As an entrepreneur and burnout prevention advocate, I am also organizing a yoga class during the meeting and a bicycling event on Sunday October 11th to promote SurgeonMasters for those Surgeons and their family that want to dedicate at least 1-4 hours of their meeting time to creating an outlet for exercise, camaraderie, and creating a fun positive attitude. The fee for these activities is intended to only offset their costs.

I will also be very active as an OTA member, participating in the Business Meeting, the Public Relations Committee meeting, checking out the technical exhibits, and attending as much of the scientific program as I can. I will also be at the Grand Hyatt poolside for the Thursday evening reception, which we selected for everyone’s convenience! Keep in mind that my highest priority is to be there as an OTA member, so feel free to approach me and start off with “Jeff, I have a question for you as local host.” I will only interact with you in the role that you need at the time.

Please come enjoy!

Jeffrey M. Smith, MD and Kate Smith
Local Host, San Diego, California
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 healthcare 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
23.5 AMA PRA Category 1 Credits™ for attending the Annual Meeting. Additional credits if you attend pre-meeting events:
- Basic Science Focus Forum (11.5 CME Credits)
- ICD-10 Coding for Trauma Surgeons (6 CME Credits)
- International Trauma Care Forum (8.75 CME Credits)
- Orthopaedic Trauma Boot Camp (12.75 CME Credits)
- Young Practitioners Forum (4 CME Credits)
- PA/NP Course (19.5 AAPA Category 1 CME Credits)

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the American Academy of Orthopaedic Surgeons and the Orthopaedic Trauma Association. The American Academy of Orthopaedic Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

The American Academy of Orthopaedic Surgeons designates this live activity (OTA 2015 Annual Meeting) for a maximum of 23.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Pre-Registration
Deadline September 30, 2015;
On-site Registration - additional $100. See Page 59.
### Wednesday, October 7, 2015

#### BASIC SCIENCE FOCUS FORUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 - 8:45 am</td>
<td>Symposium 1: Management of Poly-traumatized Patients with Severe Wounds</td>
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<tr>
<td>8:45 - 9:24 am</td>
<td>Paper Session 1: Biomechanically-Directed Fixation</td>
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<tr>
<td>9:45 - 10:50 am</td>
<td>Symposium 2: Critical Size Bone Defects</td>
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<tr>
<td>10:50 - 11:35 am</td>
<td>Paper Session 2: Critical Size Bone Defects</td>
</tr>
<tr>
<td>12:30 - 1:40 pm</td>
<td>Symposium 3: Absolute versus Relative Fixation</td>
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<tr>
<td>1:40 - 2:19 pm</td>
<td>Paper Session 3: Absolute versus Relative Fracture Fixation</td>
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<tr>
<td>2:40 - 3:45 pm</td>
<td>Symposium 4: Biomechanical - Hot Topics 2015</td>
</tr>
<tr>
<td>3:45 - 4:50 pm</td>
<td>Paper Session 4: Biomechanics</td>
</tr>
<tr>
<td>4:50 pm</td>
<td>Adjourn to International Poster Reception</td>
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#### ORTHOPAEDIC TRAUMA BOOT CAMP

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 - 10:25 am</td>
<td>Trauma Boot Camp Presentations</td>
</tr>
<tr>
<td>10:45 am</td>
<td>Labs</td>
</tr>
<tr>
<td>11:35 am - 12:50 pm</td>
<td>Trauma Boot Camp Presentations</td>
</tr>
<tr>
<td>12:50 pm</td>
<td>Lunch with Case Presentations</td>
</tr>
<tr>
<td>1:30 - 4:30 pm</td>
<td>Trauma Boot Camp Presentations</td>
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</tbody>
</table>

#### INTERNATIONAL ORTHOPAEDIC TRAUMA CARE FORUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:30 - 8:05 am</td>
<td>Symposium I: Focus Surgical Techniques - Vertical Shear Pelvic Fx</td>
</tr>
<tr>
<td>8:05 - 8:37 am</td>
<td>Paper Session 1: Acetabulum</td>
</tr>
<tr>
<td>8:37 - 9:09 am</td>
<td>Paper Session 2: Pelvic Injuries &amp; Femur</td>
</tr>
<tr>
<td>9:25 - 9:45 am</td>
<td>SIGN Session</td>
</tr>
<tr>
<td>9:45 - 10:17 am</td>
<td>Paper Session 3: Knee Injuries</td>
</tr>
<tr>
<td>10:17 - 10:49 am</td>
<td>Paper Session 4: Foot and Ankle</td>
</tr>
<tr>
<td>10:49 - 11:16 am</td>
<td>Symposium II: Debate: Open Reduction of Difficult Young Intra-capusal NOF Fx</td>
</tr>
<tr>
<td>11:16 - 11:48 am</td>
<td>Paper Session 5: Basic Science</td>
</tr>
<tr>
<td>11:48 am - 12:28 pm</td>
<td>Paper Session 6: Tibia Injuries</td>
</tr>
<tr>
<td>1:00 - 1:25 pm</td>
<td>Symposium III: Post Traumatic Femoral AVN</td>
</tr>
<tr>
<td>1:25 - 1:49 pm</td>
<td>Best of the Best Session</td>
</tr>
<tr>
<td>1:49 - 2:14 pm</td>
<td>Keynote Speaker: Hans-Christoph Pape, MD</td>
</tr>
<tr>
<td>2:14 - 3:19 pm</td>
<td>Symposium IV: Guest Nation</td>
</tr>
<tr>
<td>3:40 - 4:10 pm</td>
<td>Symposium V: My Worst Case</td>
</tr>
<tr>
<td>4:10 - 4:42 pm</td>
<td>Paper Session 8: Proximal Femoral Frx</td>
</tr>
<tr>
<td>4:42 - 5:22 pm</td>
<td>Paper Session 9: Upper Extremity</td>
</tr>
<tr>
<td>5:30 - 6:30 pm</td>
<td>International Poster Reception</td>
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#### ICD-10 CODING FOR TRAUMA SURGEONS

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>9:00 am - 4:00 pm</td>
<td>ICD-10 Coding Presentations</td>
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### Thursday, October 8, 2015

#### YOUNG PRACTITIONERS FORUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>6:30 - 10:20 am</td>
<td>Young Practitioners Forum Presentations</td>
</tr>
<tr>
<td>10:20 - 10:50 am</td>
<td>Speed Mentoring Sessions</td>
</tr>
</tbody>
</table>

#### BASIC SCIENCE FOCUS FORUM

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:25 - 8:20 am</td>
<td>Symposium 5: What’s Important Besides Getting the Bone to Heal?</td>
</tr>
<tr>
<td>8:20 - 9:22 am</td>
<td>Paper Session 5: Besides Bone Healing</td>
</tr>
<tr>
<td>9:40 - 10:40 am</td>
<td>Symposium 6: Does Research Change Practice?</td>
</tr>
<tr>
<td>10:40 - 11:10 am</td>
<td>Paper Session 6: New Technology and Research</td>
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</tbody>
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#### ORTHOPAEDIC TRAUMA BOOT CAMP

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 - 8:50 am</td>
<td>Trauma Boot Camp Presentations</td>
</tr>
<tr>
<td>9:00 - 9:50 am</td>
<td>Lab 1 – Nailing Proximal Tibia</td>
</tr>
<tr>
<td>9:50 - 11:00 am</td>
<td>Trauma Boot Camp Presentations</td>
</tr>
</tbody>
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### Industry Symposia

**Thursday, October 8, 11:15 am - 12:45 pm**

**Registration Required - Boxed lunch available**

- Acelity
- Acumed
- DePuy Synthes (2)
- Ellipse Technologies
- Siemens
- Stryker Trauma
- Zimmer Biomet

### ANNUAL MEETING

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00 pm</td>
<td>Welcome and Donor Awards</td>
</tr>
<tr>
<td>1:20 - 2:50 pm</td>
<td>Symposium I: Anxious, Addicted and Alone: It is more than just the X-Rays!</td>
</tr>
<tr>
<td>3:20 - 4:11 pm</td>
<td>Paper Session 1: Program Committee Highlight Papers: High Level Randomized Controlled Trials</td>
</tr>
<tr>
<td>4:11 - 4:30 pm</td>
<td>Symposium II: Results of the FLOW Study</td>
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<tr>
<td>4:30 - 5:00 pm</td>
<td>President’s Message: The $500 Check</td>
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<td></td>
<td>Theodore Miclau III, MD, OTA President</td>
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<tr>
<td>5:00 - 6:00 pm</td>
<td>OTA Business Meeting</td>
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<tr>
<td>6:00 - 8:00 pm</td>
<td>Welcome Reception Manchester Grand Hyatt Pool Deck</td>
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**MEETING AT A GLANCE, continued**

### Thursday, October 8, 2015, continued

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:45 pm</td>
<td>Welcome and Overview</td>
</tr>
<tr>
<td>12:55 - 3:40 pm</td>
<td>PA/NP Course Presentations</td>
</tr>
<tr>
<td>3:45 - 4:30 pm</td>
<td>Skills Lab</td>
</tr>
<tr>
<td>4:30 - 5:00 pm</td>
<td>Spanning Knee Ex Fix</td>
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<tr>
<td>4:30 - 5:00 pm</td>
<td>President’s Message</td>
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**Friday, October 9, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 - 7:30 am</td>
<td>Skills Labs (SL1) SIGN</td>
</tr>
<tr>
<td></td>
<td>(SL2) Periprosthetic Fracture (Femur)</td>
</tr>
<tr>
<td>6:30 - 7:30 am</td>
<td>Case Presentations</td>
</tr>
<tr>
<td>7:45 - 9:24 am</td>
<td>Paper Session 2: Tibial/Knee</td>
</tr>
<tr>
<td>8:00 - 9:30 am</td>
<td>Mini-Symposia</td>
</tr>
<tr>
<td>9:55 - 11:15 am</td>
<td>Symposium III: Acetabular Fractures in Patients Older than 60</td>
</tr>
<tr>
<td>11:15 - 11:45 am</td>
<td>Guest Nation Presentation</td>
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<tr>
<td>11:45 am - 12:15 pm</td>
<td>John Border, MD Memorial Lecturer</td>
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*Christian Krettek, MD, FRACS, FRCSEd*

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:15 pm - 1:15 pm</td>
<td>Women in Orthopaedic Trauma Luncheon</td>
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<tr>
<td>12:15 - 1:15 pm</td>
<td>New Member Luncheon</td>
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<tr>
<td>12:15 - 1:15 pm</td>
<td>LUNCH</td>
</tr>
<tr>
<td>12:30 - 1:15 pm</td>
<td>Guided Poster Tours (PT1) International</td>
</tr>
<tr>
<td>1:15 - 2:15 pm</td>
<td>Skills Labs (SL3) IM Nailing Proximal Tibia Fx</td>
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<tr>
<td></td>
<td>(SL4) Fixation of Proximal Humerus Fx</td>
</tr>
<tr>
<td>1:15 - 2:45 pm</td>
<td>Mini-Symposia</td>
</tr>
<tr>
<td>1:15 - 3:05 pm</td>
<td>Paper Session 3: General Interest I</td>
</tr>
<tr>
<td>3:35 - 4:32 pm</td>
<td>Paper Session 4: Pelvis Acetabulum</td>
</tr>
<tr>
<td>4:30 - 5:45 pm</td>
<td>Mini-Symposia</td>
</tr>
<tr>
<td>4:32 - 5:48 pm</td>
<td>Paper Session 5: Femur/Polytrauma</td>
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<tr>
<td>5:48 - 6:45 pm</td>
<td>'Suds and Science' Guided Poster Tours Beverages included with these tours.</td>
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<tr>
<td></td>
<td>(PT3) Foot and Ankle</td>
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<td></td>
<td>(PT4) Upper Extremity</td>
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### Saturday, October 10, 2015

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 - 7:30 am</td>
<td>Skills Labs (SL5) Complex Ankle Fractures</td>
</tr>
<tr>
<td></td>
<td>(SL6) Fixation of Intra-Articular Distal Humerus Fractures</td>
</tr>
<tr>
<td>6:30 - 7:30 am</td>
<td>Case Presentations</td>
</tr>
<tr>
<td>7:45 - 9:00 am</td>
<td>Symposium IV: Elbow Trauma: How to Improve Outcomes in 2015</td>
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<tr>
<td>9:30 - 11:00 am</td>
<td>Mini-Symposia</td>
</tr>
<tr>
<td>9:30 - 11:08 am</td>
<td>Paper Session 6: Foot &amp; Ankle</td>
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<tr>
<td>11:00 am - 12:15 pm</td>
<td>Mini-Symposia</td>
</tr>
<tr>
<td>11:08 am - 12:22 pm</td>
<td>Paper Session 7: Hip Fractures</td>
</tr>
<tr>
<td>12:22 - 1:22 pm</td>
<td>LUNCH</td>
</tr>
<tr>
<td>12:35 - 1:20 pm</td>
<td>Guided Poster Tours (PT5) Kneetibia</td>
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<td></td>
<td>(PT6) Reconstruction/General Interest I</td>
</tr>
<tr>
<td>1:22 - 3:00 pm</td>
<td>Paper Session 8: Infection/General Interest II</td>
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<tr>
<td>1:30 - 3:00 pm</td>
<td>Mini-Symposia</td>
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<tr>
<td>3:15 - 5:10 pm</td>
<td>Paper Session 9: Upper Extremity/Wrist</td>
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<tr>
<td>5:10 pm</td>
<td>Closing Remarks and Adjourn</td>
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### PA/NP COURSE

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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 - 7:30 am</td>
<td>Case Presentations</td>
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<tr>
<td>8:00 am - 12:15 pm</td>
<td>PA/NP Course Presentations</td>
</tr>
<tr>
<td>11:45 am - 12:15 pm</td>
<td>John Border, MD Memorial Lecturer</td>
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Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
MEETING and PRE-MEETING COURSES

2015 Program Committee
Robert V O’Toole, MD, Program Chair
Michael D McKee, MD, Program Co-Chair
Thomas F Higgins, MD
Michael J Gardner, MD
David J Hak, MD
Stephen Kottmeier, MD
Gilbert R Ortega, MD, MPH
David W Sanders, MD
Gerard P Slobogean, MD

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
- Demonstrate the impact of transdisciplinary and collaborative care on orthopaedic practice
- Understand the most recent advances and controversies in percutaneous fixation, open reduction, internal fixation and hip replacement in patients older than 60
- Learn operative indications of elbow fractures and how to optimize operative treatment.

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

Wednesday, October 7, 2015

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.

2015 Basic Science Committee
Edward J Harvey, MD, Chair
Mohit Bhandari, MD; Joseph Borrelli Jr, MD; Todd O McKinley, MD; Aaron Nauth, MD; Emil H Schemitsch, MD; Brett D Crist, MD

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 11.5 AMA PRA Category 1 Credits™

Objectives
Upon successful completion of the Basic Science Focus Forum, you will be able to:

- Understand the complex physiological issues associated with polytrauma patients
- Comprehend the changing treatment and diagnostic parameters for critical size bone defects
- Recognize the best indications for absolute or relative fixation in fracture management
- Review the biomechanical principals in directed fixation for controversial fractures and subluxations
- Appreciate what other musculoskeletal conditions we need to treat in trauma
- Identify how research may change your practice

Wednesday, October 7, 2015

6:30 am Registration
7:30 am Introduction
Edward J Harvey, MD, Program Chair

7:35 am - 8:45 am Symposium 1
Management of Polytraumatized Patients with Severe Wounds
Moderators: Todd O McKinley, MD, Timothy Billiar, MD
7:35 am Measuring Patient-Specific Mechanical and Ischemic Tissue Injury in Multiply Injured Patients
Greg E Gaski, MD
7:55 am Restoring Functional Muscle in Severe Wounds with Volumetric Muscle Loss
Benjamin Corona, PhD

8:15 am Computational Biologic Approaches to Understanding Clinical Outcomes in Multiply Injured Patients
Yoram Vodovotz, PhD

8:35 am Discussion

8:45 am - 9:24 am Paper Session 1
Biomechanically-Directed Fixation
Moderators: Todd McKinley, MD, Timothy Billiar, MD

8:45 am Overview
Timothy Billiar, MD

8:50 am Paper 1
Cytokines as Predictors of Multiple Organ Dysfunction Syndrome of Polytrauma Patients – Osteoprotegerin and Lipocalin-2 better than Interleukin-6?
Marcel Winkelmann, MD; Henning Peters; Christian Macke, MD; Philipp Mommsen, MD; Christian Zeckey, MD; Christian Schröter, MD; Christian Krettek, MD; Claudia Neunaber, MD

8:56 am Paper 2
A Severe Hemorrhagic Shock Leads to a Delayed Fracture Healing and Biomechanical Instability in a Murine Model
Katrin Bundkirchen, MS; Luisa Schäck, MD; Sandra Noack, MD; Christian Krettek, MD; Claudia Neunaber, MD

9:02 am Paper 3
Vancomycin and Imipenem Release from Nails Covered with Antibiotic-loaded Acrylic Cement Pharmacokinetic Study
Jorge Barla, MD; Luciano Rossi, MD; Carlos Sancineto, MD

9:08 am Paper 4
Elution Characteristics of PMMA Bone Cement IM Spacers Impregnated with Vancomycin and Tobramycin
Andrew Patton, MD; Brandon Perez, MD; William Buford, PhD

9:14 am Discussion
9:24 am Break
11:13 am  Paper 8
Comparative Analysis of Thrombopoietin (TPO), a Novel Agent to Heal Segmental Bone Defects, with Bone Morphogenetic Protein-2 (BMP-2): A Hypothesis Generating Transcriptomic Study
Nabarun Chakraborty, MS; MBA; Rasha Hammamieh, PhD; Duncan Donohue, PhD; Todd McKinley, MD; Paul Childress, PhD; Benjamin Corona, PhD; Tien-Min Chu, DDS; PhD; Melissa Kacena, PhD

11:19 am  Paper 9
BMP-2 Increases Survival of Mesenchymal Stem Cells and Fracture Healing when Deployed in Photopolymerizable Hydrogels
Motasem Refaat, MD; Nina Vollmer, PhD; Steve Ho, BS; Eben Alsberg, PhD; Kent Leach, PhD; Mark Lee, MD

11:25 am  Discussion

11:35 am  Lunch

12:30 pm - 
Symposium 3
1:40 pm  Absolute versus Relative Fixation

Moderators:  Joseph Borrelli, MD
Brent L Norris, MD

12:30 pm  Plates: Alternative Fixation Methods and Their Influence on Fracture Healing
Gerald Lang, MD

12:45 pm  IM Nails are the Mainstay of Diaphyseal and Metaphyseal Fracture Fixation: And Why?
Thomas A (Toney) Russell, MD

1:00 pm  Pros and Cons of Plates and Screws in Osteoporotic Bone
David Rothberg, MD

1:15 pm  Periprosthetic Fracture Fixation: To Graft or Not to Graft?
William M Ricci, MD

1:30 pm  Discussion

1:40 pm - 
Paper Session 3
2:19 pm  Absolute versus Relative Fracture Fixation

Moderators:  Joseph Borrelli Jr, MD
Brent L Norris MD

1:40 pm  Overview
Joseph Borrelli Jr, MD

1:45 pm  Paper 10
Controlled Axial Dynamization with a Novel Active Locking Plate can Deliver Faster and Stronger Healing
Michael Bottlang, PhD; Stanley Tsai, MS; Anika Drechsler, BS; Brigitte von Rechenberg, DVM; Manuel Asch, BS; Daniel Fitzpatrick, MS, MD; Peter Augat, PhD; Steven Madey, MD
### 1:51 pm  
**Paper 11**  
A Biomechanical Comparison of Standard versus Far Cortical Locking Screws in a Periprosthetic Distal Femur Fracture  
*Kimberly Jacobsen, MD; J Bledsoe, PhD; Heidi Israel, PhD, RN; Jeffrey Whiting, MD; Lisa Cannada, MD*

### 1:57 pm  
**Paper 12**  
In Vivo Correlation of RUST Scoring with Biomechanical Strength of Nailed Tibia Fractures: Can We Finally Define Union Radiographically?  
*Paul Tornetta, MD; Jody Litrenta, MD; William Ricci, MD; Roy Sanders, MD; Robert O'Toole, MD; Henry Faber, MS; Jason Nascone, MD*

### 2:03 pm  
**Paper 13**  
The Biomechanical Advantage of Locked versus Non-locked Symphyseal Plating of Unstable Pelvic Ring Injuries  
*Ryan Godinsky, MD; Gregory Vrabec, MD; Loredana Guseila, BS; Danielle Filipkowski, MS; John Elias, PhD*

### 2:09 pm  
Discussion

### 2:19 pm  
Break

### 2:40 pm - 3:45 pm  
**Symposium 4**  
**Biomechanical - Hot Topics 2015**  
**Moderators:** Emil Schemitsch, MD  
Michael Bottlang, MD

- **2:40 pm**  
  *Proximal Humerus Fractures: Using Biomechanics to Reduce Failure of Locked Implants*  
  *TBD*

- **2:48 pm**  
  *Femoral Neck Fracture Fixation: What is the Rationale for Implant Choice?*  
  *Gerard P Slobogean, MD*

- **2:56 pm**  
  *Nailing Unstable Intertrochanteric Fractures: Biomechanical Evidence for Improved Proximal Fixation*  
  *Steven A Olson, MD*

- **3:04 pm**  
  *Periprosthetic Distal Femur Fractures: Nail or Plate?*  
  *Emil Schemitsch, MD*

- **3:12 pm**  
  *Syndesmotic Injuries: How Flexible Should the Fixation Be?*  
  *David W Sanders, MD*

- **3:20 pm**  
  *Talar Neck Fractures: Is Standard Screw Fixation Adequate?*  
  *Bruce Sangeorzan, MD*

### 3:45 pm - 4:50 pm  
**Paper Session 4**  
**Biomechanics**  
**Moderators:** Emil Schemitsch, MD  
Michael Bottlang, MD

- **3:45 pm**  
  *Overview*  
  *Emil Schemitsch, MD*

- **3:50 pm**  
  *The Effect of Varying Tension of a Suture Button Construct in Fixation of the Tibiofibular Syndesmosis - Evaluation Using Stress Computed Tomography*  
  *John Morelloato, MBBS (Hons); Hakim Louati, MSc; Andrew Bodrogi, MD; Andrew Stewart, MD; Steven Papp, MD FRCPC; Allan Liew, MD, FRCSC; Wade Gorton, MD, FRCPC*  

### 3:56 pm  
**Paper 14**  
Anatomic Ligament Repair Restores Ankle and Syndesmotic Rotational Stability as Much as Syndesmotic Screw Fixation  
*Patrick Schottel, MD; Josh Baxter, PhD; Susannah Gilbert, MS; Matthew Garner, MD; Dean Lorich, MD*

### 4:02 pm  
**Paper 15**  
Initial Stiffness of Bicortical Locked Screw versus Unicortical Locked Screw and Graft-Cable Fixation of Comminuted Vancouver C Periprosthetic Fractures: A Biomechanical Study  
*Micahle Beebe, MD; David Hulet, BS; Casey Whale, BS; Sean Tagge, BS; Jeremy Gilliland, MD; Erik Kubiak, MD*

### 4:08 pm  
Discussion

### 4:18 pm  
**Paper 17**  
Comparison of Three Methods for Maintaining Inter-fragmentary Compression after Fracture Fixation  
*Brigham Au, MD; John Groundland, MD; Brandon Santoni, PhD; Kyle Stoops, MD; H Claude Sagi, MD*
Thursday, October 8, 2015

7:25 am  Introduction  
Edward J Harvey, MD, Program Chair

7:30 am -  Symposium 5  
8:20 am  What’s Important Besides Getting the Bone to Heal?  
Moderators:  Brett D Crist, MD  
Mark A Lee, MD

7:30 am  What to Do When the Articular Cartilage Doesn’t Heal or Can’t Be Reconstructed?  
James P Stannard, MD

7:40 am  Periarticular Knee Fractures: Ligamentous Stability Affects Success  
William Harvin, MD

7:50 am  Fractures Don’t Heal without Soft Tissue Coverage: Understanding the Soft Tissue Reconstructive Ladder  
Michael J Gardner, MD

8:00 am  Muscular Recovery: How Much is Lost with Injury?  
Thomas Higgins, MD

8:10 am  Discussion

8:20 am -  Paper Session 5  
8:25 am  Overview

8:20 am  Paper 20  
Autologous Minced Muscle Treatment of Volumetric Muscle Loss Improves Neuromuscular Strength  
Jennifer McDaniel, PhD; Catherine Ward, PhD; Joseph Wenke, PhD; Benjamin Corona, PhD

8:31 am  Paper 21  
Comparison Between Supra-patellar and Para-patellar Approach for Proximal Tibia Fractures: Cadaveric Study  
Rodolfo Zamora, MD; Craig Wright, MD; Adam Short, MD; David Seligson, MD

8:37 am  Paper 22  
Blind Area of Reverse-L Posteromedial Approach Compare with Posterolateral Approach for Posterolateral Tibial Plateau Fractures: A Cadaveric Study  
Wich Orapiriyakul, MD; Theerachai Apivaththakul, MD
8:43 am  
**Paper 23**  
The Safety and Feasibility of Minimally Invasive Plate Osteosynthesis (MIPO) on the Medial Side of the Femur: A Cadaveric Injection Study  
*Theerachai Apivatthakakul, MD*

8:49 am  
Discussion

8:54 am  
**Paper 24**  
Under Pressure: The Utility of Splitting Fiberglass Casts  
*Kevin Kleis, DO; John Schlechter, DO; Joshua Doan, MEng; Christine Farnsworth, MS; Eric Edmonds, MD*

9:00 am  
**Paper 25**  
Targeted Stimulation of Retinoic Acid Receptor Signaling Mitigates the Formation of Heterotopic Ossification Formation in an Established Blast-Related Traumatic Injury Model  
*Gabriel Pavey, MD; Ammar Qureshi, PhD; Allison Tomasino, BS; Danett Bishop, PhD; Masahiro Iwamoto, PhD; Maurizio Pacifici, PhD; Benjamin Potter, MD; Thomas Davis, PhD; Jonathan Forsberg, MD*

9:06 am  
**Paper 26**  
Transforming Growth Factor-β2 Gene Expression Early may be Predictive of the Severity of Future Development of Heterotopic Ossification  
*Ronald Goodlett, MD; Patrick Jones, MD; Youngmi Ji, PhD; Daniel Griffin, MD; Leon Nesti, MD, PhD; Husain Bharmal, MD*

9:12 am  
Discussion

9:22 am  
Break

9:40 am - 10:00 am  
**Symposium 6**  
Does Research Change Practice?  
*Mohit Bhandari, MD  
Edward J Harvey, MD*

9:40 am  
Orthopaedic Research Funding Trends – Is Trauma Getting Its Fair Share?  
*Mitchell Bernstein, MD*

9:50 am  
**6 Clinical Research Papers That Have Influenced My Practice**  
*Michael T Archdeacon, MD*

10:00 am  
**6 Basic Science Research Papers That Have Influenced My Practice**  
*Steven R Papp, MD*

10:10 am  
Does Level I Evidence Mean “I Should Change my Practice?”  
*Peter Giannoudis, MD*

10:20 am  
Are Journals the Future Source of Practice-Changing Evidence?  
*Roy Sanders, MD*

10:30 am  
Discussion

10:40 am - 11:10 am  
**Paper Session 6**  
New Technology and Research  
*Edward J Harvey, MD  
Peter V Giannoudis, MD*

10:40 am  
Overview

10:45 am  
**Paper 27**  
Repetitive Reduction Lead to Significant Elevated IL-6 Levels in Femoral Fractures: A Quantitative Analysis of a Robot-Assisted Reduction Process in a Rat Model  
*Claudia Neunaber, MD; Ralf Westphal, MD; Christian Krettek, MD; Thomas Goessling; MD; Philipp Haas, MD; Katrin Bundkirchen, MS*

10:51 am  
**Paper 28**  
Carbon Monoxide Releasing Molecule-3 (CORM-3) Protects the Skeletal Muscle In Porcine Model of Compartment Syndrome  
*Aurelia Bihari, MSc; Gediminas Cepinskas, DVM, PhD; David Sanders, MD; Abdel-Rahman Lawendy; MD, PhD, FRCSC*

10:57 am  
**Paper 29**  
The Effect of Iron Chelators on Bioceramic Bone Graft Remodeling  
*Justin Drager, MDCM; Zeeshan Sheikh, PhD; Yu Ling Zhang, MSc; Abhishek Kumar, MD; Edward Harvey, MD, MSc, FRCSC; Jake Barralet, PhD*

11:03 am  
Discussion

11:10 am  
**ADJOURN TO INDUSTRY SYMPOSIA**  
Registration Required  
(Boxed lunch available)
Daniel S Horwitz, MD & Robert F Ostrum, MD, Program Chairs

Attendees of this activity can earn up to **12.75 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 7, 2015**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:15 am</td>
<td>Registration and Breakfast</td>
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<tr>
<td>7:00 am</td>
<td>Welcome and Announcements</td>
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<td>Daniel S Horwitz, MD</td>
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**Upper Extremity**

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<tr>
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<tr>
<td>7:05 am</td>
<td>Clavicle Fractures</td>
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<td>Robert A Probe, MD</td>
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<tr>
<td>7:25 am</td>
<td>Proximal Humerus Fractures</td>
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<td>William M Ricci, MD</td>
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<tr>
<td>7:45 am</td>
<td>Distal Humerus Fractures</td>
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<td></td>
<td>James A Goulet, MD</td>
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<tr>
<td>8:05 am</td>
<td>Distal Radius Fractures</td>
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<td></td>
<td>Thomas F Varecka, MD</td>
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<tr>
<td>8:25 am</td>
<td>Questions / Discussion</td>
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<tr>
<td>8:40 am</td>
<td>Case Presentations</td>
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<td></td>
<td>Daniel S Horwitz, MD</td>
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**Polytrauma and Biologics**

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<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:55 am</td>
<td>Orthobiologics</td>
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<td>J Tracy Watson, MD</td>
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<tr>
<td>9:15 am</td>
<td>Open Fractures</td>
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<td>Robert F Ostrum, MD</td>
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<tr>
<td>9:35 am</td>
<td>Initial Management of the Polytrauma</td>
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<td>Patient</td>
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<td>Dolphi Herscovici Jr, DO</td>
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<td>9:55 am</td>
<td>Questions / Discussion</td>
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<td>10:10 am</td>
<td>Case Presentations</td>
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<td></td>
<td>Steven J Morgan, MD</td>
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<tr>
<td>10:25 am</td>
<td>Break</td>
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**10:45 am**

- Lab 1 – Clavicle Plating
  - **Lab Leader:** Steven J Morgan, MD

**10:00 am**

- Lab 2 – Supracondylar Elbow Plating
  - **Lab Leader:** James A Goulet, MD

**Hip Fractures**

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<th>Time</th>
<th>Event</th>
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<tr>
<td>11:35 am</td>
<td>Intertrochanteric Fractures</td>
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<td>IMHS Versus DHS</td>
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<td>Jeffrey O Anglen, MD</td>
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<tr>
<td>11:55 am</td>
<td>Femoral Neck Fractures in Elderly</td>
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<td>ORIF, Monopolar, or THR</td>
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<td>Kenneth A Egol, MD</td>
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<td>12:15 pm</td>
<td>Femoral Neck Fractures in Younger Patients</td>
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<td>J Tracy Watson, MD</td>
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<td>12:35 pm</td>
<td>Questions / Discussion</td>
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<td>12:50 pm</td>
<td>Lunch with Case Presentations</td>
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<td></td>
<td>Jeffrey O Anglen, MD</td>
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**Femoral Shaft/Supracondylar Femur Fractures**

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<th>Time</th>
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<tr>
<td>1:30 pm</td>
<td>The Stable Appearing Pelvic Fracture</td>
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<td>that is Really Unstable.</td>
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<td>How Do You Tell?</td>
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<td>Andrew H Schmidt, MD</td>
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<tr>
<td>1:50 pm</td>
<td>Femoral Nailing:</td>
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<td>Antegrade versus Retrograde</td>
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<td>Daniel S Horwitz, MD</td>
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<td>2:10 pm</td>
<td>Supracondylar Femur Fractures</td>
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<td>Paul Tornetta III, MD</td>
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<td>2:30 pm</td>
<td>Periprosthetic Fractures</td>
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<td>Clifford B Jones, MD</td>
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<td>2:50 pm</td>
<td>Break</td>
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<tr>
<td>3:10 pm</td>
<td>Role and Technique for Spanning External Fixator</td>
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<td>3:30 pm</td>
<td>Patella Fractures</td>
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<td>3:50 pm</td>
<td>Questions / Discussion</td>
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<td>4:05 pm</td>
<td>Case Presentations</td>
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<td>4:30 pm</td>
<td>Adjourn</td>
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**Thursday, October 8, 2015**

**Tibia Fractures Top to Bottom**

**Moderator:** Erik Kubiak, MD

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<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am</td>
<td>Tibial Plateau Fractures</td>
<td>Steven J. Morgan, MD</td>
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<tr>
<td>7:20 am</td>
<td>Tibial Shaft Fractures</td>
<td>Philip R. Wolinsky, MD</td>
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<tr>
<td>7:40 am</td>
<td>Tibial Nonunions</td>
<td>Gerald J. Lang, MD</td>
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<tr>
<td>8:00 am</td>
<td>Pilon Fractures - Surgical Approaches and Techniques</td>
<td>Nigel Rossiter, MD</td>
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<td>8:20 am</td>
<td>Questions / Discussion</td>
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<tr>
<td>8:35 am</td>
<td>Case Presentations</td>
<td>Erik Kubiak, MD</td>
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<tr>
<td>8:50 am</td>
<td>Break</td>
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<tr>
<td>9:00 am</td>
<td>Lab 1 – Nailing Proximal Tibia</td>
<td>Erik Kubiak, MD</td>
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<tr>
<td>9:50 am</td>
<td>Lab 2 – Pilon Ankle Plating</td>
<td>Joshua Langford, MD</td>
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**Calcaneus Fractures**

**Moderator:** Nigel Rossiter, MD

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<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:50 am</td>
<td>Ankle Fractures in the Elderly Osteoporotic and Neuropathic</td>
<td>Dolfi Herscovici Jr, MD</td>
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<tr>
<td>10:10 am</td>
<td>Calcaneus Fracture Emergencies</td>
<td>Erik Kubiak, MD</td>
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<tr>
<td>10:30 am</td>
<td>Questions / Discussion</td>
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<tr>
<td>10:45 am</td>
<td>Case Presentations</td>
<td>Nigel Rossiter, MD</td>
</tr>
<tr>
<td>11:00 am</td>
<td>Adjourn</td>
<td>Daniel S. Horwitz, MD</td>
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<tr>
<td>11:15 am - 12:45 pm</td>
<td>INDUSTRY SYMPOSIA</td>
<td>Registration Required</td>
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*Registration Required* (Box lunch available)
Wednesday, October 7, 2015

2015 International Committee
Peter V Giannoudis, MD, Chair
Ney Amaral, MD; Fernando de la Huerta, MD;
Amir M Matityahu, MD; Cyril Mauffrey, FRCS (Ortho), MD
Max Morandi, MD; Thomas A (Toney) Russell, MD

Attendees of this activity can earn up to 8.75 AMA PRA Category 1 Credits™

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

Objectives
Attendees of the International Orthopaedic Trauma Care Forum will:
- Learn about the varied methods of treating fracture and trauma complications from around the world
- Understand the pros and cons of open reduction techniques of the difficult young intra-capsular NOF fracture
- Increase knowledge and understanding of the anterior and posterior approach to vertical shear pelvic fractures
- Become familiar with unique approaches to acetabulum fractures in the elderly treated in Germany
- Understand the most recent advances and controversies of post traumatic femoral AVN
- Gain insight as to best practices when things go wrong

Program
7:30 am Welcome
Peter V Giannoudis, MD, Program Chair

7:35 am - 8:05 am Symposium I
Focus Surgical Techniques - Vertical Shear Pelvic Fracture: My Preferred Method of Reduction-Fixation

Moderators: William G DeLong Jr, MD
Tim Chesser, MD
- Anterior Approach – Cyril Mauffrey, MD
- Posterior Approach – Amir M Matityahu, MD

8:05 am - 8:37 am Session 1 – Acetabulum
Moderators: Keith Willett, MD
Amir M Matityahu, MD

Paper 1
Acetabular Fractures in Elderly Patients: A Comparative Study of Low-Energy versus High-Energy Injuries
Cyril Mauffrey, MD; Ji-Wan Kim, MD; Benoit Herbert, MD; Jiandong Hao, MD; William Min, MD; Bruce Ziran, MD

Paper 2
The State of Pelvic and Acetabular Surgery in the Developing World: A Global Survey of Orthopaedic Surgeons at SIGN Hospitals
Paul Whiting, MD; Duane Anderson, MD; Daniel Galat, MD; Lewis Zirkle, MD; Hassan Mir, MD

8:37 am - 9:09 am Session 2 – Pelvic Injuries and Femur
Moderator: Ross K Leighton, MD
Michael L Nerlich, MD

Paper 3
Impact of Pelvic Fracture on the Clinical Outcomes of Severely Injured Trauma Patients: Where We Stand in 2015
Khalid Almahmoud, MD; Roman Pfeifer, MD; Philipp Lichte, MD; Thomas Dienstknecht, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD

8:45 am Paper 4
Pelvic Fractures In Paediatric Polytrauma Patients: Classification, Concomitant Injuries And Early Mortality
Theodoros Tosoulidis, MD; Hassaan Sheik, MD; Peter Giannoudis, MD

8:53 am Paper 5
Predictors of Reoperation for Adult Femoral Shaft Fractures Managed Operatively in Sub-Saharan Africa
Edmund Eliezer, MD; Billy Haonga, MD; Saam Morshed, MD; David Shearer, MD

8:01 am Discussion
9:09 am Break
SIGN Session

Moderator: Lewis G. Zirkle, MD

- Earthquake Nepal 2015
  Bhaskar Raj Pant, MD
- 2015 Earthquake Disaster Response by Nepal Orthopaedic Hospital
  Saju Pradhan, MD

Session 3 – Knee Injuries

Moderators: Max Morandi, MD
            Paulo Roberto Lourenco, MD

10:01 am  Paper 9  Structural Bone Grafting as a Treatment for Periprosthetic Knee Fractures: A Review of 15 Cases
            Ion Carrera, MD; Angelica Millan, MD; Xavier Aquilera, MD; Julio De Caso, MD; Fernando Celaya, MD

10:09 am  Discussion

Session 4 – Foot and Ankle

Moderator: Fernando de la Huerta, MD
            Hans-Christoph Pape, MD

10:17 am  Paper 10  Arthroscopic Assisted Minimally Invasive Fixation of the Supination-External Rotation Ankle Fractures
            Chao-Ching Chiang, MD; Ching-Kuei Huang, MD; Yun-Hsuan Tzeng, MD

10:25 am  Paper 11  Direct Comparison of Syndesmotic Reconstructive Techniques Using Weightbearing CT
            Jennifer Hagan, MD; Boyko Gueorguiev, PhD; R Geoff Richards, PhD; Kajetan Klos, MD; Paul Simons, MD

10:33 am  Paper 12  Close Reduction and Percutaneous Screw Fixation for Talar Neck Fractures
            Hu Wang, MD; Zhe Song, MD

10:41 am  Discussion

Symposium II

Debate: Open Reduction of the Difficult Young Intra-capsular NOF Fracture

Moderator: Mohit Bhandari, MD, PhD

- Anterior Open Reduction-Fixation Technique (video)
  Christian Krettek, MD, FRACS
- Pros/Cons – Best Evidence
  Brad Petrisor, MD

Session 5 – Basic Science

Moderators: Cyril Mauffrey, FRCS (Ortho), MD
            Emil H Schemitsch, MD

11:16 am  Paper 13  The Impact of a Femur Fracture on Systemic Neutrophil Activation in Pigs
            Michel Teuben, MD; Marjolein Heeres, MD; Taco Blokhuis, MD; Roman Pfeifer, MD; Klemens Horst, MD; Leo Koenderman, MD; Hans-Christoph Pape, MD; Luke Leenen, MD

11:24 am  Paper 14  Angular Stable Intramedullary Nailing - Does It Provide Biomechanical Benefit?
            Peter Augat, MD; Stefanie Hoffmann, MD; Manuel Kessler, MD; Daniel Stephan, MD; Geert von Oldenburg, MD; Claus Gerber, MD

11:32 am  Paper 15  Nail Medullary Canal Ratio Affects Mechanical Axis Deviation during Femoral Lengthening with an Intramedullary Distractor
            Nael Hawi, MD; Mohamed Kenawey, MD; Christian Krettek, MD; Emmanouil Liodakis, MD

11:40 am  Discussion
Session 6 – Tibia Injuries
Moderator: Christopher G Moran, MD
P Duffy, MD

11:48 am
Paper 16
Minimally Invasive Plate Osteosynthesis for Periprosthetic Tibial Fractures after Total Knee Arthroplasty
Joon-Woo Kim, MD; Ki-Chul Park, MD; Jong-Keon Oh, MD; Chang-Wug Oh, MD; Hee-Soo Kyung, MD; Kyung-Hyun Park, MD

11:56 am
Paper 17
Bone Transport Combined with Open Wound Treatment for Tibial Fracture Infected Nonunion
Hu Wang, MD; Pen-fei Wang, MD

12:04 pm
Paper 18
Outcomes of Tibia Fractures Treated with a SIGN Intramedullary Nail at Nepal Orthopedic Hospital
Michael Self, MD; Jill Larson, MD; Anil Shrestha, MD; S David Stulberg, MD

12:12 pm
Paper 19
Lower Extremity Fractures in Uganda Continue to Impact Income, Quality of Life and the School Attendance of Dependents at One Year Post-injury
Nathan O’Hara, MD; Rodney Mugarura, MD; Jeffrey Potter, MD; Trina Stephens, MD; Marit Rehavi, MD; Patrick Francois, MD; Piotr Blachut, MD; Peter O’Brien, MD; Tito Beyeza, MD; Gerard Slobogean, MD

12:20 pm
Discussion
12:28 pm
LUNCH

Symposium III

1:00 pm - 1:25 pm
Post Traumatic Femoral AVN
Moderator: Christian Krettek, MD, FRACS
– Core Decompression – B Bouillon, MD
– Biological Based Therapies
Peter V Giannoudis, MD

1:25 pm - 1:49 pm
Session 7 – Best of the Best
Moderator: Thomas A (Toney) Russell, MD
Florian Gebhard, MD, PhD

1:25 pm
Paper 20
Ilioinguinal Approach and Infrapectineal Plate Fixing Posterior Column for Complex Acetabular Fractures
Yan Zhuang, MD; Hu Wang, MD

1:31 pm
Paper 21
Isolating only a Novel Mesenchymal Stem Cell Subpopulation Leads to a High Mitogenic and Osteogenic Outcome
Ippokrates Pountos, MD; Karen Henshaw, MD; Peter Giannoudis, MD

1:37 pm
Paper 22
Reconstruction of Femoral Head Impaction Injuries using Osteochondral Shell Autografts Harvested from the Head-Neck Junction
Marius Keel, MD; Jennifer Cullmann, MD; Salvatore Tomagra, MD; Harald Bonel, MD; Johannes Bastian, MD

1:43 pm
Discussion

1:49 pm
Keynote Speaker – Hans-Christoph Pape, MD
University of Aachen Medical Center
Aachen, Germany
Introduction: Theodore Miclau III, MD

Symposium IV
Guest Nation: Germany

2:14 pm – 3:19 pm
Acetabulum Fracture Fixation in the Elderly: My Preferred Method of Treatment
Moderator: Peter V Giannoudis, MD
Theodore Miclau III, MD
– Non-operative Treatment
William G DeLong Jr, MD
– Fixation – Michael L Nerlich, MD
– Replacement – Florian Gebhard, MD, PhD

3:19 pm
Break

Symposium V

3:40 pm - 4:10 pm
(My Worst Case: When Things Go Wrong Then /What?)
Moderator: Roy Sanders, MD
– Case 1 – Christopher G Moran, MD
– Case 2 – Daniel S Horwitz, MD

4:10 pm - 4:42 pm
Session 8 – Proximal Femoral Fractures
Moderator: Andrew H Schmidt, MD
B Bouillon, MD

4:10 pm
Paper 23
Which Intramedullary Nailing Treatment for Intertrochanteric Femoral Fractures Results in Better Outcomes?
Martin Hoffmann, MD; Debra Sietsema, MD; Justin Khoriaty, MD; Clifford Jones, MD
4:18 pm Paper 24  
Effect of Teriparatide on Atypical Complete Femoral Fractures treated with Intramedullary Nailing  
Hyun-Seok Joo, MD; Dong-Eun Kim, MD; Ji-Wan Kim, MD; Ki-Chul Park, MD; Jung-Jae Kim, MD  

4:26 pm Paper 25  
Incidence of Bone Protection and Associated Fragility Injuries in Patients with Proximal Femoral Fractures  
Ignacio Aguado-Maestro, MD; Michalis Panteli, MD; Manuel Garcia-Alonso, MD; Alejandro Bañuelos-Díaz, MD; Roberto Escudero-Marcos, MD; Peter Giannoudis, MD  

4:34 pm Discussion  

4:42 pm - 5:22 pm Session 9 – Upper Extremity  
Moderator: Douglas W Lundy, MD  

4:42 pm Paper 26  
Removal of Volar Plates after Open Reduction Internal Fixation of Distal Radius Fractures: Clinical Reasons and Radiographic Analysis  
Amir Shlaifer, MD  

4:50 pm Paper 27  
Prevention of Complex Regional Pain Syndrome Type I in Patients with Distal Radius Fracture: A Pilot Study  
Emily Boersma, MD; Henk Van de Meent, MD; Jan Paul Fröike, MD  

4:58 pm Paper 28  
Diaphyseal Humeral Fractures in the Elderly: Results of Surgical Treatment  
Nimrod Snir, MD; Ron Batash, MD; Oleg Dolkart, MD; Eran Maman, MD; Gilad Eisenberg, MD; Yaniv Warschawski, MD; Ely Steinberg, MD  

5:06 pm Paper 29  
Elbow Hinged External Fixator: Our Treatment Approach for Complex Elbow Dislocation in Elderly  
Pietro Maniscalco, MD; Marco Caforio, MD; Patrizia Mantelli, MD; Luigi Bisogno, MD  

5:14 pm Discussion  

5:22 PM ADJOURN TO INTERNATIONAL POSTER RECEPTION  

5:30 pm - 6:30 pm International Poster Reception  

Poster 1  Determinants of Access to Orthopaedic Surgery at Uganda’s National Hospital  
Trina Stephens, MSc; Nathan O’Hara, MHA; Jeffrey Potter, MD; Rodney Mugarura, MBChB, M.Med; Piotr Blachut, MD; Peter O’Brien, MD; Tito Beyeza, MD; Gerard Slobogean, MD  

Poster 2  Corrective Osteotomy of The Distal Femur: A Minimally Invasive Surgical Technique Using a Locking Plate and Temporary External Fixation  
Joon-Woo Kim, MD; Chang-Wug Oh, MD; Jong-Keon Oh, MD; Tae-Joon Cho, MD; Hee-Soo Kyung, MD; Hee-June Kim, MD  

Poster 3  Possible Predictors for Difficult Removal of Locking Plates: A Case-Control Study  
Yang Lv, MD; Fang Zhou, MD; Yun Tian, MD; Hongquan Ji, MD; Zhishan Zhang, MD; Yan Guo, MD; Yunfei Hou, MD  

Poster 4  Long-Term Analysis (10 Versus 20 Years) After Severe Trauma: What are the Effects on Quality of Life?  
Roman Pfeifer, MD; Hagen Andruszkow, MD; Klemens Horst, MD; Frank Hildebrand, MD; Hans-Christoph Pape, MD  

Poster 5  The Global Burden of Spine Fractures: A Pilot Prospective Multicenter Evaluation  
Ilyas Aleem, MD; Dylan Demarco, BHSc; Brian Drew, MD; Sohail Shariff, BSc; C.J. Foote, MD; Nathan Evaniew, MD; Vijay Shetty, MD; Mandeep Dhillon, MD; Raman Mundi, MD; Mohit Bhandari, MD  

Poster 6  Functional Results After Fracture Dislocations of the Elbow  
Kaare Midtgaard, MD; Ida Sletten, MD; Jørgen Michelsen, MD; Jan Erik Madsen, MD; Gunnar Flugsrud, MD  

Poster 7  Closed Reduction and Internal Fixation with MIPPO Technique for Calcaneal Fractures  
Yan Guo, MD; Fang Zhou, MD; Yun Tian, MD; Yang L, MD  

Poster 8  Is Polyaxial Plating Technology Effective for Fixation of Distal Femoral Fractures?  
Kalliopi Lampropoulou-Adamidou, MD; Theodoros Tosounidis, MD; Nikolaos Kanakaris, MD; Peter Giannoudis, MD  

Poster 9  Does Operative Restoration of the Clavicle Portion of the Floating Shoulder Injury Affect Scapular Deformity?  
Alex Glide, MD; Debra Sietsema, PhD; Christiane Kruppa, MD; Martin Hoffmann, MD; Clifford Jones, MD  

Poster 10  Blood Glucose in Multiply Injured Patients – A Reliable Parameter for Haemorrhagic Shock and Outcome?  
Philipp Mommsen, MD; Christian Schröter, MD; Christian Zeckey, MD; Mohamed Omar, MD; Christian Krettek, MD; Marcel Winkelmann, MD  

Poster 11  Entrapment – A Risk Factor for Outcome in Multiple Trauma Patients?  
Christian Zeckey, MD; Philipp Mommsen, MD; Marika Sarakintsis; Marcel Winkelmann, MD; Christian Schröter, MD; Christian Krettek, MD; Christian Macke, MD
ICD-10 CODING FOR TRAUMA SURGEONS

Wednesday, October 7, 2015

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 to ease the ICD-10-CM transition! Take this opportunity to attend an ICD-10 course specifically for orthopaedic trauma surgeons and their staff. With more documentation and technology tools to assist trauma surgeons who must navigate the use of over 65% of all ICD-10 codes. 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 IZD-10 Zupko Slim Guide for Orthopaedic ICD-10. This “cheat sheet” is modified for common sense, and condensed to include the codes most commonly used to report musculoskeletal diseases, chronic problems and complications. The guide also includes the popular KZA “Injury Guy” offering a streamline strategy for identifying the category (first three characters) for every diagnosis from the injury chapter of ICD 10. The 7th character tables required for all injuries are color coded 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 20 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
- Sports Medicine
- Trauma
- Arthroscopy
- Pediatric Orthopaedics
- Tumor
- Medical necessity
- Evaluation & Management
- Individualized E&M documentation and review education via the internet
- EOB analysis
- ICD-10 CM for Orthopaedics

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

Be Inspired
Not Intimidated about Implementing ICD-10
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 pneumonic Leo C. Far
- Demonstrate the correct use of the 7th character for active treatment of a fracture
- Define the use of pathologic vs traumatic fracture codes
- List 3 things you will do to review and improve your documentation.

Course Agenda

8:00 am - 12:00 pm

- Registration

9:00 am - 12:00 pm

- Comparing ICD-9 to ICD-10
- What about the chapter on External Causes?
  - Does it matter if the patient was bitten by a duck or struck by a duck?
- ICD-10 Format and Structure
- Complete reorganization of the injury chapter
- 7th Character Extension for Injuries and Traumatic Fractures
- Classification of Fractures and Fracture Documentation: Leo C Far
- Delayed healing, Non-union and Malunion- It's All New!
- Dislocations
- Complications

12:00 pm - 1:00 pm Lunch

1:00 pm - 4:00 pm

- Reporting Co-morbid Conditions – Why this is so important to you
- Introduction to the Zupko slim guide (see description)
- Diseases of the Musculoskeletal System – Architecture and Organization of the Musculoskeletal Chapter
- The “Musculoskeletal Block”
- Pathologic fractures and 7th characters – What if there is some trauma?
- In-depth look at – Arthritis
- Pain – If we are not sure of the diagnosis, can we just use this?
- What about unspecified codes? Learn when to use and when not to use.

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
RESIDENTS COMPREHENSIVE FRACTURE COURSE

Wednesday - Friday, October 7 - 9, 2015
Kyle J Jeray, MD & Toni M McLaurin, MD, Program Chairs

Course Description
The Residents Comprehensive Fracture Course will be presented in six (6) separate small group modules, with 22 - 24 residents and 5 experienced faculty educators per module.

The modules will have a rapid-fire series of mini-lectures, an extensive open case-based discussion, video demonstrations of techniques, and hands-on skills lab exercises. Modules will cover fundamental principles of fracture care distributed among six topics: articular, diaphyseal, foot & ankle, geriatrics, pediatrics, and pelvis/polytrauma/acetabulum, plus a lunch-time spine session.

This course offers pre-course educational on-demand video materials. Details will be sent with registration confirmation as well as an online basic science pre-test and an onsite clinical post test.

Target Audience
This course is targeted for PGY2 – PGY4’s, others who feel they will benefit will not be excluded. Attendance is limited, so early registration is recommended.

Modules

Module One
Articular Fractures
Module Leaders: Frank A Liporace, MD
Timothy S Achor, MD

Topics
Distal Humerus
Anatomy/Approaches (incl. Osteotomy)
Reduction and Implant Techniques
Post-Operative Treatment
Total Elbow Arthroplasty

Elbow
Anatomy and Radiographs
Monteggia Fractures
Olecranon Fractures
Terrible Triad

Tibial Plateau
Fragment Specific Fixation
Classification
Medial/Posteromedial Fragment
Lateral Articular Fragment
Treatment Algorithms: Low Energy - High Energy

Supracondylar Femur
Anatomy
Implant Position and Surgical Techniques
ORIF - Intramedullary Nailing
Radiography

Case-Based Discussions
Intra-articular Distal Humerus Fracture
Monteggia Fracture
Olecranon Fracture
Terrible Triad
Intercondylar Femur Fracture
Lateral Plateau Fracture
Bicondylar Plateau Fracture
B3 Distal Femur Fracture

Hands-on Skills Labs
Olecranon Tension Banding and Plating
Supracondylar Femur
Tibial Plateau

Module Two
Diaphyseal Fractures
Module Leaders: Michael P Leslie, DO
David B Weiss, MD

Lectures/Case-Based Discussions
Primary Bone Healing vs. Callus
Intramedullary Nail Mechanics
Plating Mechanics
Failed Fixation

Hands-on Skills Labs
Intramedullary Nailing Proximal Tibia Fracture
Lag Screw / Compression Plating Radius and Bridge Plating Ulna
(Open Reduction Internal Fixation Forearm Fracture)
Module Three

Foot and Ankle
Module Leaders: S Andrew Sems, MD
William H Harvin, MD

Topics
Ankle Fractures
Talus Fractures
Tibial Pilon Fractures
Calcaneus

Lectures/Case-Based Discussions
Classic Maissoneuve Injury
Trimalleolar with Displaced Posterior Malleolus
Low Energy - Partial Articular Fracture
High Energy - AO/OTA 43.C3 with Staged External/Internal Fixation
Definitive Treatment with External Fixation
Hawkins II Talar Neck Fracture
Hawkins II Talar Neck Fracture with Involvement of Talar Body
LisFranc
Sanders II Joint Depression
Sanders IV Fracture with Blood-filled Blisters in 60 Year Old Roofer who Smokes
Mid-Foot/Tarso-Metatarsal
Divergent Lisfranc Injury
Subtle Lisfranc Injury
Multiple Displaced Metatarsal Shaft Fractures

Hands-on Skills Labs/Videos
Trimalleolar Ankle Fracture with Unstable Syndesmosis
External Fixation of a Comminuted Pilon Fracture

Module Four

Geriatric
Module Leaders: Charisse Y Sparks, MD
Carla S Smith, MD

Lectures
Periprosthetic Fracture Management
Locked Plating Basics
Osteoporosis Evaluation and Management

Case-Based Discussions
Femoral Neck
Intertrochanteric Hip Fractures
Distal Humerus
Proximal Humerus

Surgical Video
Proximal Humerus Fracture Locked Plating

Hands-on Skills Labs
Sliding Hip Screw
IM Hip Nail
Distal Radius

Module Five

Pediatrics
Module Leaders: Anthony I Riccio, MD
R Lane Wimberly, MD

Lectures
Unique Aspects of Children’s Fractures
Timing of Children’s Fractures

Case-Based Discussions
Distal Humerus
Femur
Intra-articular

Videos
Forearm Fracture Reduction
Spica Casting

Hands-on Skills Labs/Videos
Closed Reduction and Percutaneous Pinning of Supracondilar Humerus Fracture
Flexible Elastic Nailing of Femoral Shaft Fracture

Presented in partnership with OTA and POSNA

Module Six

Polytrauma, Pelvis and Acetabulum
Module Leaders: Marcus F Sciadini, MD
Ryan P Finnan, MD
Raymond D Wright Jr, MD

Lectures
Damage Control and Hemodynamic Stabilization
Pelvic Ring Injuries – Stability and Reduction
Stable LCI Type Injury - Nonoperative Principles
Pelvic Radiographs & SI Screws
RADIOGRAPh & Model Interpretation Session

Case-Based Discussions
Polytrauma Patient
Open Fractures
Vertical Shear or Unstable Pelvis

Surgical Video
Sheet Wrap / Pelvic Binder

Hands-on Skills Labs
Supra-acetabular & Iliac Crest Pelvic Ex Fix
Pubic Diastasis with Symphyseal Plate

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
YOUNG PRACTITIONERS FORUM

Thursday, October 8, 2015
Jodi A Siegel, MD, & Lisa K Cannada, MD, Program Co-Chairs

Attendees of this activity can earn up to 4 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
- Develop an understanding of skills to succeed in a Trauma Practice

Program

6:00 am  Registration & Continental Breakfast
6:30 am  Introduction: What’s Different Now? Trauma Stats from 2015 Match and Post Fellow Survey
         Jodi A Siegel, MD
6:36 am  My Fellowship Year-Tips from an Attending on Being a Good Fellow
         PANEL: Robert V O'Toole, MD
                  H Claude Sagi, MD
                  Timothy S Achor, MD
6:57 am  Taking Notes That Will Help in the Future
         Paul S Whiting, MD
7:06 am  Fellow’s Perspective
         PANEL: Do’s and Don’ts in Making a Good First Impression
                  Jason C Tank, MD
                  How to Work With Residents
                  Timothy Craft, MD
                  Be Open to Learning New Ways
                  Daniel J Stinner, MD
7:27 am  Now I am the Teacher: Taking Your Role Seriously
         Kenneth A Egol, MD
7:38 am  Common Sense Lessons for Your Career & Life
         Roy Sanders, MD
7:59 am  The Little Things that Matter
         J Tracy Watson, MD
8:16 am  Questions
8:27 am  Break
8:41 am  The Challenges of Balance when Both of You Work
         Scott P Ryan, MD
8:52 am  Do Politics Matter to an Orthopaedic Surgeon? (They Should!) A Alex Janghir, MD
9:01 am  The Job Interview: Expectations from the Interviewee and Interviewer
         Douglas R Dirschl, MD
                  Gregory J Della Rocca, MD, PhD
9:22 am  Defining the Road Ahead
         TBA
9:35 am  Social Media in Your Practice
         Jeffrey M Smith, MD
9:50 am  Maximing Opportunities for Involvement in the OTA and AAOS
         Kyle J Jeray, MD
9:57 am  The Business Savvy Orthopaedic Surgeon: How to Become One
         Peter L Althausen, MD
10:08 am  ABOS Part II
         Shepard R Hurwitz, MD
10:20 am  Speed Mentoring
         Lisa K Cannada, MD
10:50 am  Wrap up
11:00 am  Adjourn to Industry Symposia

Registration Required
(Boxed lunch available)

TOPICS:
- Research: Getting Started and Finding Time to Do It
- I am Overwhelmed - How Do I Appear Organized
- What Do I do with a PA/NP/Residents
- My Home Life Is Affecting my Job
- I Want to Get Better: How Can I Prepare & Critically Review my Cases
- Is the Grass Always Greener on the Other Side?

FACULTY:
- Paul Tornetta III, MD
- David C Templeman, MD
- Laura S Phieffer, MD
- Robert P Dunbar Jr., MD
- Daniel S Horowitz, MD
- Robert A Hymes, MD

Take this home to get your questions answered on multiple topics!

This Speed Mentoring session will have six 5 minute sessions at different tables run by the faculty.
Thursday, October 8, 2015

1:00 pm Welcome and Donor Awards

1:20 pm - 2:50 pm Symposium I
Anxious, Addicted and Alone: It is more than just the X-rays!
Moderator: William Obremskey, MD, MPH, MMHC
Faculty: Kristin Archer, PT, PhD; Basam Attum, MD; Renan Castillo, PhD; Hassan R Mir, MD; Stephen Wegner, PhD

Objectives
• to educate orthopaedic trauma surgeons on the variety issues facing us today with regard to patient outcomes
• to demonstrate the impact of transdisciplinary and collaborative care on orthopaedic practice
• to encourage surgeons to utilize strategies that have been found effective in improving outcomes in various musculoskeletal patient populations.

Description: This Symposium is a discussion of the opioid epidemic and the problem of alcohol and nicotine addiction and the personal and societal costs of addiction. We also examine chronic pain and the prevalence and impact of both psychological distress and cognitive dysfunction. The second part of the Symposium will focus on evidence-based management and interventions, with sections on multimodal pain treatment, collaborative care models, cognitive-behavioral self-management strategies, and referral and rehabilitation interventions to improve psychological health and cognitive and vocational outcomes. The aim of our Symposium is not only to educate orthopaedic trauma surgeons on the issues facing us today with regard to patient outcomes, but also to demonstrate the impact of transdisciplinary and collaborative care on orthopaedic practice. By providing a comprehensive view of patient care, we hope to encourage surgeons to utilize strategies that have been found effective in improving outcomes in various musculoskeletal patient populations.

1:20 pm The Opioid Epidemic
Hassan R Mir, MD

1:30 pm Alcohol and Nicotine Addiction and the Personal and Societal Cost of Addiction
Basam Attum, MD

1:40 pm Chronic Pain Burden and Predictors
Kristin Archer, PT, PhD

1:50 pm Incidence and Impact of Psychological Distress (PTSD and Depression) and Cognitive Dysfunction
Renan Castillo, PhD

2:05 pm Multimodal Pain Treatment and Strategies to Improve Shared Decision-Making and Patient Engagement in Care Collaborative Care Models
Stephen Wegner, PhD

2:00 pm Referral and Management to Improve Cognitive-Behavioral and Self-Management Strategies for the Clinician
William Obremskey, MD, MPH, MMHC

2:35 pm Psychological Health Q and A

2:50 pm Break

3:20 pm - 4:11 pm Paper Session 1
Program Committee Highlight Papers: High Level Randomized Controlled Trials
Moderators: Michael D McKee, MD; Robert V O’Toole, MD

3:20 pm Paper 30
A Prospective, Randomised, Controlled Trial Comparing The Fibular Nail vs. Standard ORIF for Fixation of Ankle Fractures in Patients Under 65 Years of Age
Timothy White, MD, FRCS; Kate Bugler, Mb ChB, MRCS; Margaret McQueen, MD FRCS; Charles Court-Brown, MD

3:26 pm Paper 31
An Equivalence Randomized Controlled Trial Comparing Close Contact Casting (CCC) with Internal Fixation Surgery for Unstable Malleolar Fractures in Patients Over 60 Years
Keith Willett, FRCS; David Keene, DPhil; Robert Handley, FRCS; Julian Nam, MSc; Ranjit Lall, PhD; Andrew Briggs, DPhil; Sallie Lamb, DPhil

3:32 pm Discussion

3:37 pm Paper 32
Proximal Fracture of the Humerus: Evaluation by Randomisation (ProfHER) Trial
Amar Rangan, FRCS; Stephen Brealey, PhD; Helen Handoll, PhD; Ada Keding, MSc; Laura Jefferson, PhD; Belen Corbacho-Martin, MSc; Lorna Goodchild, MSc; Ling-Hsiang Chuang, PhD; Nigel Rossiter, FRCS; Catherine Hewitt, PhD; David Torgerson, PhD
Thursday, October 8, 2015

3:43 pm  Paper 33
A Multi-Centre RCT Comparing the InterTAN Device Versus the Sliding Hip Screw in the Treatment of Geriatric Hip Fractures: Results depend on Pre-Injury Functional Level

David Sanders, MD; Dianne Bryant, PhD; Abdel-Rahman Lawendy, MD, PhD, FRCSC; Mark MacLeod, MD; Kevin Gurr, MD; Tim Carey, MD; Christina Tieszer, BSc, MSc; Steven Papp, MD FRCP; Allan Liew, MD, FRCSC; Wade Gofton, MD, FRCPC; Julia Foxall; Chad Coles, MD; Ross Leighton, MD, FRCSC, FACS; Kelly Trask, MSc; Darius Viskontas, MD; Trevor Stone, MD; Mauri Zomar; Andrew Trenholm, MD; Tracy Adams

3:49 pm  Discussion

3:54 pm  Paper 34
The Supra-Patellar Variant of the Semi-Extended Surgical Approach Improves Intramedullary Nail Position Compared with the Conventional Medial Parapatellar Approach - A Prospective Multi Centre RCT

Alan Johnstone, MD; Christopher Munro, MD; Pedro Caba, MD; Ismael Escriba, MD; Daren Forward, MD; Markus Graf, MD

4:00 pm  Paper 35
Low Intensity Pulsed Ultrasound in Acute Tibial Shaft Fractures Treated with IM Nails: The Results of the TRUST Trial

Paul Tornetta, MD; Jason Busse, DC, PhD/Assistant Prof; Mohit Bhandari, MD, FRCSC, PhD; Thomas Einhorn, MD; Emil Schemitsch, MD; James Heckman, MD; Kwok-Sui Leong, MD; Diane Heels-Ansdell, MSc; Sun Kallyth, PhD; Gordon Guyatt, MD

4:06 pm  Discussion

4:11 pm  Symposium II
Results of the FLOW Study: A Multi-national, Randomized Trial Evaluating Irrigating Solutions and Pressures in Patients with Open Fractures

Introduction: Robert V O’Toole, MD
Moderator: Mohit Bhandari, MD, PhD

Friday, October 9, 2015

6:30 am – 7:30 am  Concurrent Breakouts
(Descriptions on pages 50 - 53)

Skill Labs – No Charge.
Seating available first come, first-served.

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

6:30 am  (SL2) Periprosthetic Fracture (Femur)
Lab Leader: Erik Kubiak, MD

Case Presentations – No Charge.
Seating available first come, first-served.

6:30 am  Periarticular Fractures of the Tibia: The Case for Going Prone
Moderator: Lisa K Cannada, MD
Faculty: Stephen Kottmeier, MD; J Tracy Watson, MD

6:30 am  Treatment Strategies for Tibial Plateau Fractures
Moderator: Marcus F Sciadini, MD
Faculty: Michael T Archdeacon, MD; Stephen H Sims, MD; Nirmal C Tejwani, MD; Philip R Wolinsky, MD
OTA ANNUAL MEETING, continued

Friday, October 9, 2015

6:30 am Pelvis and Acetabulum Fractures
Moderator: Paul Tornetta III, MD
Faculty: Robert V O’Toole, MD; Robert F Ostrum, MD; H Claude Sagl, MD; Jodi Siegel, MD

6:30 am Don’t Be Scared! Evaluation and Management of Complex Pediatric Elbow Fractures
Moderator: David A Podeszwa, MD
Faculty: Christine A Ho, MD; Anthony I Riccio, MD; R Lane Wimberly, MD

7:45 am - 9:24 am Paper Session 2 Tibia/Knee
Moderators: Michael D McKee, MD
Raymond R White, MD

7:45 am Paper 37
Can Electromagnetic Navigation for Distal Locking of Intramedullary Nail Reduce Procedure Time and Radiation Exposure?
Takashi Miaymoto, MD; Sho Obara, MD; Shuji Isefuku, MD; Takeshi Doi, MD; Atsuhiko Mogami, MD; Yoshihisa Anraku, MD; Kensuke Sakai, MD; Masayuki Ito, MD; Ryouichi Kawakami, MD; Masahiro Shirahama, MD; Mitustoshi Sagara, MD; Tomohiro Yasuda, MD; Haruyosi Yamashita, MD

7:51 am Paper 38
Suprapatellar Intramedullary Nail Technique Lowers Rate of Malalignment of Distal Tibia Fractures
Frank Avilucea, MD; Kostas Triantafillou, MD; Paul Whiting, MD; Ed Perez, MD; Hassan Mir, MD, MBA

7:57 am Paper 39
Clinical and Functional Results of 117 Patients with Knee Dislocations
Nicholas Scarcella, BS; Stephen Bowen; Heather Vallier, MD

8:03 am Discussion

8:08 am Paper 40
Superior Outcomes after Operative Fixation of Patella Fractures using a Novel Cage Plate Construct: A Prospective Cohort Study
Stephen Warner, MD, PhD; Lionel Lazaro, MD; Ryan Thacher, BA; Matthew Garner, MD; Gina Sauro, PT, DPT; David Helfet, MD; Dean Lorich, MD

8:14 am Paper 41
Function and Knee Range of Motion Plateau 6 Months Following Tibial Plateau Fractures
Anthony Christiano, BA; Christian Pean, MS; Kenneth A Egol, MD

8:20 am Paper 42
Is Early Total Care of Bicondylar Tibial Plateau Fractures Safe?
Florence Unno, MD; Kelly LeFaire, MD; Georg Osterhoff, MD; Henry Broekhuysen, MD; Pierre Guy, MD; Peter O’Brien, MD, FRCSC

8:26 am Discussion

8:31 am Paper 43
A Novel PTH based Bone Graft Substitute Demonstrates Non-Inferiority to Autograft in a Large Phase IIb Study of Tibial Plateau Fractures
Jason Schense, PhD

8:37 am Paper 44
Functional and Clinical Outcomes of Non-operatively Managed Tibial Plateau Fractures
Christian Pean, MS; Anthony Christiano, BA; Sanjit Konda, MD; Roy Davidovitch, MD; Kenneth A Egol, MD

8:43 am Paper 45
Acute in Vivo Metrics of Joint Incongruity Following Articular Fracture Predict Post-Traumatic Arthritis in Mice
Tyler Vovos, BS; Bridgette Furman, BS; Kelly Kimmerng, MS; Janet Huebner, MS; Gangadhar Utturkar, MS; Virginia Kraus, PhD; Louis DeFrate, ScD; Farshid Guilak, PhD; Steven A Olson, MD

8:49 am Paper 46
Decreased Bone Density in Geriatric Patients Does Not Lead to Inferior Outcomes After Open Reduction and Internal Fixation of Tibial Plateau Fractures
Matthew Garner, MD; Elizabeth Gausden, MD; Stephen Warner, MD, PhD; Andre Shaffer, MD; Dean Lorich, MD

8:55 am Discussion

9:00 am Paper 47
Tibial Plateau Diminished Outcome Score Identifies Patients at Risk of Poor Functional Outcome
Sanjit Konda, MD; Arthur Manoli, BS; Roy Davidovitch, MD; Kenneth A Egol, MD
Friday, October 9, 2015

9:06 am   Paper 48  
Objective Metric of Energy Absorbed in Tibial Plateau Fractures Corresponds Well to Clinician Assessment of Fracture Severity  
Laurence Kempton, MD; Kevin Dibbern, BS; Donald Anderson, PhD; Saam Morshed, MD; Thomas Higgins, MD; Larry Marsh, MD; Todd McKinley, MD

9:12 am   Paper 49  
The Effect of Soft Tissue Injuries on Clinical Outcomes Following Tibial Plateau Fracture Fixation  
Stephen Warner, MD, PhD; Matthew Garner, MD; Patrick Schottel, MD; Peter Fabricant, MD, MPH; Ryan Thacher, BA; David Helfet, MD; Dean Lorich, MD

9:18 am   Discussion
9:24 am   Break

8:00 am – Concurrent Breakouts  
(Descriptions on pages 50 - 53)

8:30 am   Mini Symposia – No Charge.  
Seating available first come, first-served.

8:00 am   Critical Aspects of Orthopaedic Trauma in 2015 that Can Impact your Financial Future  
Moderator: Peter Althausen, MD, MBA  
Faculty: Timothy Bray, MD; Austin Hill, MD, MPH; Chris McBride, MBA; Justin Walker, MD; Anthony Williams ChFC, RFC, CLU

8:00 am   NSAIDs and Bone Healing: Clinical Practice and Understanding the Discrepancies in the Literature  
Moderator: Steven A Olson, MD  
Faculty: Kamal Ajam, MD; Farshid Guilak, PhD; Alejandro Marquez-Lara, MD

8:00 am   Educating in Fracture Surgery  
Moderator: Samir Mehta, MD  
Faculty: Tim Achor, MD; Jaimo Ahn, MD; Matthew Graves, MD

9:55 am - 11:15 am   Symposium III  
Acetabular Fractures in Patients Older than 60  
Moderator: Theodore T Manson, MD

Objectives  
• The participant will learn the relative effectiveness of various treatments for this patient population  
• Surgical Techniques of Percutaneous fixation, open reduction and internal fixation and hip replacement in this population  
• Choosing the best option for your particular patient

Description: This symposium will focus on surgical techniques for the management of acetabular fractures in patients older than 60. A literature review will be included, but the heavy emphasis will be on actual surgical techniques. Reduction and fixation strategies including anterior ORIF, percutaneous fixation and fixation with concomittant THA. The participant should hopefully leave with improved surgical strategies for managment of these complex patients.

9:55 am   Comparitive Effectiveness of ORIF, Percutaneous Fixation and THA for the Management of Acetabular Fractures in Patients Older than 60  
Robert V O'Toole MD

10:10 am   Approach, Reduction and Fixation of Acetabular Fractures through the Anterior Approach  
David L Helfet MD

10:25 am   Techniques for the Percutaneous Reduction and Fixation of Acetabular Fractures in Older Patients  
Adam J Starr MD

10:40 am   ORIF plus Concomittant THA for Older Patients with Acetabular Fractures  
Theodore T Manson MD

10:55 am   Case Review-Discussion

11:15 am - 11:45 am   Guest Nation Introduction  
Theodore Miclau III, MD, OTA President

Guest Nation Presentation  
2015 Guest Nation - GERMANY  
It is a great honor to welcome Professor Michael L Nerlich, MD, 2015 President of both the German Society for Trauma Surgery and German Society for Orthopaedics and Trauma Surgery. We look forward to his enlightening presentation: The German Trauma Network Initiative - Challenges and Advantages.

Best International Forum Paper  
TBD
OTA ANNUAL MEETING, continued

Friday, October 9, 2015

11:45 am - 12:15 pm

John Border, MD
Memorial Lecturer

Christian Krettek, MD, FRACS, FRCSEd,
Professor and Chair Hannover School
of Medicine Trauma Department
Hannover, Germany

This lectureship was established to honor the memory of Dr. John Border. John Border was instrumental in the development of modern trauma care and in particular, modern orthopaedic trauma care. He was the pioneer in the concept of total care and the implications of the orthopaedic injuries on the total management of the trauma patient. He was also a surgeon scientist, using both his clinical observations and basic science research to further his patient care in Orthopaedic Trauma.

12:15 pm - 1:15 pm Lunch

12:30 pm - 1:15 pm Guided Poster Tours
(PT1) International
Guide: Peter V Giannoudis, MD
(PT2) Hip, Femur, Geriatric
Guide: Thomas F Higgins, MD

1:15 pm – 2:15 pm Concurrent Breakouts
(Descriptions on pages 50 - 53)

1:15 pm – 2:15 pm Skill Labs – No Charge.
Seating available first come, first-served.

1:15 pm (SL3) IM Nailing Proximal Tibia Fractures
Lab Leader: Paul Tornetta III, MD

1:15 pm (SL4) Fixation of Proximal Humerus Fractures
Lab Leader: Andrew R Fras, MD

1:15 pm – 2:45 pm Mini Symposia – No Charge.
Seating available first come, first-served.

1:15 pm Pelvic Ring Disruption Decision Making:
Assessment of Stability, Strategies of Fixation, and Determining What Needs To Be Fixed
Moderator: Jason Nascone, MD
Faculty: Joshua L Gary, MD; Pierre Guy, MD;
Conor P Kleweno, MD;
H Claude Sagi, MD;
Adam J Starr, MD

1:15 pm Developing a Successful Clinical Research Program
Moderator: Heather A Vallier, MD
Faculty: Mary Breslin, MD;
William T O'Brien, MD

1:15 pm Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art
Moderator: Michael D McKee, MD
Faculty: Peter Althausen, MD;
Niloofar Dehghan, MD;
Aaron Nauth, MD;
Emil H Schemitsch, MD;
Gerard Slobogean, MD

1:15 pm - 3:05 pm Paper Session 3
General Interest I:
Pediatrics/Non-union/Spine/Compartment Syndrome
Moderators: David J Hak, MD
Cyril Mauffrey, MD

1:15 pm Paper 50
Operative Versus Conservative Management of Displaced Tibial Shaft Fractures in Adolescents
Matthew Kinney, MD; David Nagle, BA;
Tracey Bastrom, MA; Michael Linn, MD;
Alexandra Schwartz, MD;
Andrew Pennock, MD

1:21 pm Paper 51
Fracture Classification Predicts Functional Outcomes in Supracondylar Humerus Fractures: A Prospective Study
Anthony Riccio, MD; Justin Ernat, MD;
Robert Wimberly, MD; David Podeszwa, MD;
Christine Ho, MD

1:27 pm Paper 52
Factors that Predict Instability in Pediatric Diaphyseal Both Bone Forearm Fractures
Jeffrey Kutsikosel, MD;
Christopher Hopkins, MD; Edwin Gannon, BS;
Derek Kelly, MD; Jeffrey Sawyer, MD

1:33 pm Paper 53
Best Trauma Paper of the 2015 POSNA Annual Meeting
Implementation of a Standardized Clinical Assessment and Management Plan (SCAMP) for Pediatric Distal Radius Fractures: Effect on Quality and Care
Donald S Bae, MD; Rachel L DiFazio, MS, RN;
Marie Harris, MPH; Dione Graham, PhD;
Rose Hamershock, MA; Susan Mahan, MD;
Peter M Waters, MD

1:39 pm Discussion

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1:44 pm  Paper 54
Factors Associated with Development of Non-Union or Delayed Healing following Open Fracture: A Prospective Cohort Study of 736 Subjects
Don Weber, MD; Joseph Westgeest, BSc; Sukhdeep Dulai, MD, MSc; Joseph Bergman, MD; Richard Buckley, MD; Lauren Beaupre, PT, PhD

1:50 pm  Paper 55
Can Tibial Shaft Non-unions Be Predicted at the Time of Nail Fixation?
Kevin O’Halloran, MD; Max Coale, BA; Timothy Costales, BS; Timothy Zerhusen, BS; Renan Castillo, MD; Jason Nascone, MD; Robert O’Toole, MD

1:56 pm  Paper 56
Prospective Prediction of Tibial and Femoral Shaft Fracture Nonunion at Four Months
Sarah Foyil, BA; Brett Schifflin, BA; Frank DiSilvio, BS; Mitchell Bernstein, MD, FRCSC; Hobie Summers, MD; William Lack, MD

2:02 pm  Discussion

2:07 pm  Paper 57
Ketorolac Administered in the Recovery Room for Acute Pain Management Does Not Affect Healing Rates of Femoral and Tibial Fractures
David Donohue, MD; Drew Sanders, MD; Rafael Serrano-Riera, MD; Charles Jordan, MD; H Claude Sagi, MD

2:13 pm  Paper 58
Posttraumatic Tibial Defects Treated By The Ilizarov Method: Comparison of Classic Versus Integrated Technique
Mitchell Bernstein, MD, FRCSC; Austin Fragomen, MD; Samir Sabharwal, BA; Jonathan Barclay, BA; S Rozbruch, MD

2:19 pm  Paper 59
Is this Autograft Worth It? The Blood Loss and Transfusion Rates Associated with RIA Bone Graft Harvest
Lucas Marchand, MD; David Rothenberg, MD; Erik Kubiak, MD; Thomas Higgins, MD

2:25 pm  Paper 60
Treatment of Hypovitaminosis D in an Orthopaedic Trauma Population
Brendan Andres; Benjamin Childs, BS; Anna Wallace, MD; Heather Vallier, MD

2:31 pm  Discussion

2:36 pm  Paper 61
Incidence of Complications After Therapeutic Anticoagulation in the Postoperative Spine Trauma Patient
Brian Shiu, MD; Elizabeth Le, MD; Timothy Costales, BS; Nicholas Caffes, BS; Ehsan Jazini, MD; Daniel Gelb, MD; Eugene Koh, MD, PhD; Bizhan Aarabi, MD; Steven Ludwig, MD

2:42 pm  Paper 62
Can Thrombelastography Predict Venous Thromboembolic Events in Patients with Spine Trauma?
Mark Prasarn, MD; Zayde Radwan, MD; Prism Schneider, MD, PhD, FRCSC; Joshua Gary, MD

2:48 pm  Paper 63
Narcotic Requirements is Not Predictive of Adult Traumatic Compartment Syndrome
Ehsan Jazini, MD; Ebrahim Paryavi, MD, MPH; Christine Helou, MD; Joshua Abzug, MD

2:54 pm  Paper 64
Microdialysis Detects Ischemic Change Early in Acute Compartment Syndrome: An Improvement over Standard Intra-Compartmental Pressure Monitoring
Alexander Crespo, BS; Sanjit Konda, MD; Abraham Goch, BS; Kenneth Egol, MD

3:00 pm  Discussion

3:05 pm  Break

3:35 pm - 4:32 pm  Paper Session 4
Pelvis Acetabulum
Moderator: Stephen Kottmeier, MD
Paul Tornetta III, MD

3:35 pm  Paper 65
Anatomic Reduction of Acetabular Fractures – When is the Best Time to Operate?
Steven Dailey, MD; Michael Archdeacon, MD; Caleb Phillips, PhD; Joseph Radley, MD

3:41 pm  Paper 66
The Effect of Three Dimension Printing Modeling for Treating Complex Acetabular Fractures-A Randomized Prospective Study
Kun Zhang, MD; Hu Wang, MD

3:47 pm  Discussion

3:52 pm  Paper 67
Does Injury Mechanism Influence Eventual Conversion to THA After Acetabular Fractures in Geriatric Patients?
Aaron Johnson, MD; Robert O’Toole, MD; Patrick Greenwell, BS; Theodore Manson, MD
Friday, October 9, 2015

3:58 pm  Paper 68  
Long Term Hip Joint Survival and Clinical Results in Conservatively Treated Acetabular Fractures  
John Clarke-Jenssen, MD; Anette Wikerøy, MD; Ingrid Etizen, PhD; Jan Erik Madsen, MD, PhD, Professor  

4:04 pm  Discussion  

4:09 pm  Paper 69  
Surgery for Unilateral Sacral Fractures: Are the Indications Clear?  
Paul Tornetta, MD; Julie Agel, ATC; Sean Nork, MD; Clifford Jones, MD, FACS; Heather Vallier, MD; Brian Mullis, MD; Zachary Roberts, MD; James Goulet, MD; Anna Miller, MD, FACS; Andrew Schmidt, MD  

4:15 pm  Paper 70  
Posterior Fixation in APC-2 Pelvic Ring Injuries Decreases the Rates of Anterior Plate Failure and Malunion  
Frank Avilucea, MD; Paul Whiting, MD; Hassan Mir, MD, MBA  

4:21 pm  Paper 71  
A Prospective Trial Comparing Magnetic Resonance Imaging-Detected Pelvic Ligament Injury to Displacement On Pelvic Stress Examination Under Anesthesia  
Brendan O’Daly, MD FRCS(Tr&Orth); Lina Chen, MD; Derek Davis, MD; Joshua Gary, MD; Christopher Lebrun, MD; Christina Boulton, MD; Theodore Manson, MD; Jason Nascone, MD; Marcus Sciadini, MD; Michael Mulligan, MD; Robert O’Toole, MD  

4:27 pm  Discussion  

4:30 pm – 5:45 pm  Concurrent Breakouts  
(Descriptions on pages 50 - 53)  

Mini Symposia – No Charge.  
Seating available first come, first-served.  

4:30 pm  Paper 72  
Fixed-angle versus Polyaxial Locking Plate Fixation Systems for Periprosthetic and/or Osteoporotic Distal Femoral Fractures  
Nikolaos Kanakaris, MD, PhD; Oghofori Obakponovwe, MRCS; Jerome Edet, MRCS; Matthew Costa, MD; David Shaw, MD, MSc, FRCS; Khitish Mohanty, MD, FRCS; Peter Giannoudis, MD, FRCS, MBBS, BS  

4:38 pm  Paper 73  
The Effect of Knee Flexion Contracture on Outcomes of Distal Femur Fractures  
Paul Tornetta, MD; Margaret Cooke, MD; Kenneth Egol, MD; Clifford Jones, MD, FACS; Janos Ertl, MD; Brian Mullis, MD; Ed Perez, MD; Cory Collinge, MD; Robert Ostrum, MD; Catherine Humphrey, MD; Robert Dunbar, MD; Michael Gardner, MD; William Ricci, MD; Laura Phieffer, MD; David Teague, MD; William Ertl, MD; Christopher Born, MD; Alan Zonno, MD; Jodi A Siegel, MD; H Claude Sagi, MD; Andrew Pollak, MD; Andrew Schmidt, MD; David Templeman, MD; Stephen Sems, MD; Darin Friess, MD  

4:44 pm  Paper 74  
Malalignment after minimally Invasive Plate Osteosynthesis in the Distal Femoral Fractures  
Chang-Wug Oh, MD, PhD; Joon-Woo Kim, MD, PhD; Jong-Keon Oh, MD, PhD; Kyeong-Hyeon Park, MD  

4:50 pm  Discussion  

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4:55 pm  Paper 75
Trochanteric Entry Femoral Nails Yield Better Post-Operative Femoral Version and Lower Revision Rates Than Retrograde and Piriformis Entry Nails: A Large Cohort Multivariate Regression Analysis
Richard Yoon, MD; Mark Gage, MD; David Galos, MD; Derek Donegan, MD; Frank Liporace, MD

5:01 pm  Paper 76
Sagittal Femoral Bow is Dependent on Bone Density
John Lee, MD, MS; Samuel Rosenbaum, MD; Manuel Schubert, MD; Stewart Wang, MD, PhD; James Goulet, MD

5:07 pm  Paper 77
Immediate Weight Bearing as Tolerated has Improved Outcomes Compared to Non-Weight Bearing after Intramedullary Fixation for Subtrochanteric Fractures
Brian P Cunningham, MD; Brian Miller, MD; Anthony Rorer, MD; Gilbert Ortega, MD, MPH; Hrayr Basmajian, MD; Justin Roberts, MD; Kelly Jackson, NP; Sall Zaman, MD

5:13 pm  Paper 78
Do We Really Understand the Patient Populations in Database Research: A Comparison of Femoral Shaft Fracture Patients in Three Commonly Used National Databases
Andre Samuel, BBA; Adam Lukasiwicz, MSc; Matthew Webb, BA; Daniel Bohl, MPH; Bryce Basques, BS; Arya Vartieh, MD; Michael Leslie, DO; Jonathan Grauer, MD

5:19 pm  Discussion

5:24 pm  Paper 79
Patient Specific Injury Profiles Predict Organ Failure in Multiply Injured Patients
Greg Gaski, MD; Travis Frantz, BS; Tyler Mccarroll, BS; Scott Steenburg, MD; Todd McKinley, MD

5:30 pm  Paper 80
Limb Salvage Versus Transtibial Amputation: A Comparison of Functional Gait Outcomes
Katharine Mangan, MD; Trevor Kingsbury, MA; Marilynn Wyatt, MA, PT; Kevin Kuhn, MD

5:36 pm  Paper 81
An Evaluation of the OTA-OFC System in Clinical Practice: A Multi-center Study with 90 Day Outcome
Joseph Johnson, MD; Matthew Karam, MD; Julie Agel, ATC

5:42 pm  Discussion

5:48 pm  Adjourn

5:48 pm - 6:45 pm  ‘Suds and Science’ Guided Poster Tours
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.

5:48 pm - 6:45 pm  Exhibit Reception

Saturday, October 10, 2015

6:30 am – 7:30 am  Concurrent Breakouts
(Descriptions on pages 50 - 53)

6:30 am – 7:30 am  Skill Labs – No Charge.
Seating available first come, first-served.

6:30 am  (SL5)  Complex Ankle Fractures: Posterior Malleolus, Syndesmosis
Lab Leader: John Alan Scolaro, MA, MD

6:30 am  (SL6)  Fixation of Intra-Articular Distal Humeral Fractures
Lab Leader: Michael D McKee, MD

6:30 am – 7:30 am  Case Presentations – No Charge.
Seating available first come, first-served.

6:30 am  Proximal Humerus Fractures: Optimizing Surgical Management and Technique in 2015
Moderator: Emil H Schemitsch, MD
Faculty: Pierre Guy, MD; Dean G Lorich, MD; Michael D McKee, MD; Aaron Nauth, MD; David C Ring, MD

6:30 am  What Could Go Wrong Did: Getting Out of Trouble
Moderator: Lisa K Cannada, MD
Faculty: Clifford B Jones, MD; Matt Mormino, MD; Brian H Mullis, MD

6:30 am  “Young” Femoral Neck Fractures – Why Do They Cause so Much Stress?
Moderator: Brett D Crist, MD
Faculty: Tania Ferguson, MD; Christopher Finkemeier, MD; Mark A Lee, MD
Saturday, October 10, 2015

6:30 am Distal Femur Fractures – Not as Easy as You Think
Moderator: Samir Mehta, MD
Faculty: Timothy Achor, MD; Derek Donegan, MD; Hobie Summers, MD

7:45 am - 9:00 am Symposium IV
Elbow Trauma: How to Improve Outcomes in 2015!
Moderator: Michael D McKee, MD

Objectives
• When and how to optimize fixation of elbow fractures
• The role of arthroplasty in managing elbow fractures
• How to manage complications following elbow fracture surgery

Description: The management of elbow fractures remains difficult and controversial. The failure rate of operative intervention remains higher than that seen with other fractures and there remains significant room for improvement in the care of these injuries. A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of elbow injuries.

7:45 am Distal Humerus Fractures: Evidence Based Management
Emil H Schemitsch, MD

7:55 am Radial Head / Neck Fractures: When and How to Fix
Kenneth A Egol, MD

8:05 am Terrible Triad Injuries: How to Improve Outcomes
Aaron Nauth, MD

8:15 am Monteggia Fracture Dislocations: Timing and Techniques
David C Ring, MD

8:25 am Complex Injuries: The Role of Arthroplasty
Niloofar Dehghan, MD

8:35 am Managing Complications in Elbow Fracture Surgery
Michael D McKee, MD

8:45 am Cases, Questions, Discussion, Consensus

9:00 am Break

9:30 am - 11:00 am Concurrent Breakouts
(Descriptions on pages 50 - 53)

Mini Symposia – No Charge.
Seating available first come, first-served.

9:30 am Management of Soft Tissue Defects in the Mangled Extremity
Moderator: Raymond A Pensy, MD
Faculty: H Michael Frisch, MD; Joseph Hsu, MD; Stephen J Kovach III, MD

9:30 am The Treatment of Periprosthetic Fractures in 2015: Can We Reach a Consensus?
Moderator: Emil H Schemitsch, MD
Faculty: George Haidukewych, MD; Michael D McKee, MD; Aaron Nauth, MD

9:30 am - 11:08 am Paper Session 6
Foot and Ankle
Moderators: Robert V OToole, MD
Thomas F Higgins, MD

9:30 am Paper 82
Can Long Acting Local Anesthetic Improve Outcomes in Ankle Fractures Requiring ORIF: A Prospective Randomized Pilot Study
Roy Davidovitch, MD; Abraham Goch, BS; Sanjit Konda, MD; Christian Pean, MS; Kenneth Egol, MD

9:36 am Paper 83
Association between Opioid Intake and Disability after Operative Treatment of Ankle Fractures
Abigail Finger, BA; Teun Teunis, MD; Michiel Hageman, MD; Emily Thornton, BS; Malcolm Smith, MD; David Ring, MD, PhD

9:42 am Paper 84
Incisura Morphology as a Risk Factor for Syndesmotic Malreduction
Steven Cherney, MD; Amanda Spraggs-Hughes, MA; Christopher McAndrew, MD; William Ricci, MD; Michael Gardner, MD

9:48 am Discussion

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9:53 am  Paper 85
Does Physical Therapy Predict Outcomes after Ankle Fractures and Ankle Fracture-Dislocations?
Luke Harmer, MD, MPH, FRCSC;
Chad Ferguson, MD; Rachel Seymour, PhD;
J Kent Ellington, MD;
CAPT (ret) Michael Bosse, MD

9:59 am  Paper 86
Peroneal Irritation After Lateral Malleolar Fractures
Paul Tornetta, MD; Margaret Cooke, MD;
Clifford Jones, MD, FACS; Janos Ertl, MD;
Brian Mullis, MD; Michael Gardner, MD; Kenneth Egel, MD; William Ricci, MD;
David Teague, MD; William Ertl, MD;
Laura Phieffer, MD; Cory Collinge, MD;
Ross Leighton, MD, FRCSC, FACS

10:05 am  Paper 87
Reduction Clamp Force Associated with Syndesmotic Over-Compression: A Pilot Study
Jacob Haynes, MD; Steven Cherney, MD;
Amanda Spragggs-Hughes, MA;
Christopher McAndrew, MD; William Ricci, MD; Michael Gardner, MD

10:11 am  Discussion

10:16 am  Paper 88
A Clinical Comparison of Treatment of Deltoid Ligament Injuries in Ankle Fracture: Repairing the Deep Deltoid or Superficial or NOT
Xu Sun, MD; Ting Li, MD; Yuneng Li, MD;
Xie-Yuan Jiang, MD; Xibao WU, MD;
Manyak Wang, MD

10:22 am  Paper 89
The Diagnostic Accuracy of Mortise Radiographs and MRI in Predicting Deltoid Ligament Ruptures in Supination External Rotation Ankle Fractures
Stephen Warner, MD, PhD;
Matthew Garner, MD; Patrick Schottel, MD;
David Helfet, MD; Dean Lorich, MD

10:28 am  Paper 90
Medial Clamp Tine Positioning Using Intraoperative Fluoroscopy Affects Syndesmotic Malreduction
Christopher Cosgrove, MD;
Sara Putnam, MD; Steven Cherney, MD;
William Ricci, MD; Christopher McAndrew, MD;
Amanda Spragggs-Hughes, MA;
Michael Gardner, MD

10:34 am  Discussion

10:39 am  Paper 91
The Failed Pilon: Factors Associated with Delayed Amputation, Arthroplasty, or Arthrodesis after Open Reduction and Internal Fixation
Mara Schenker, MD; Daniel Patton, MD;
Jonathan Kark, MD; David Barei, MD;
Daphne Beingessner, MD

10:45 am  Paper 92
Fixation of Tibial Pilon Fractures: Which Side of the Tibia Do I Plate?
Gennadly Busel, MD; J Tracy Watson, MD;
Heidi Israel, PhD, RN

10:51 am  Paper 93
Predictors of Amputation in High-Energy Forefoot and Midfoot Injuries
Zachary Working, MD; Iain Elliott, MD;
Lucas Marchand, MD; Lance Jacobson, MD;
Angela Presson, PhD; Ami Stuart, PhD;
Thomas Higgins, MD; Erik Kubiatk, MD;
David Rothberg, MD

10:57 am  Paper 94
A Randomized, Prospective Comparison of Bioabsorbable and Steel Screw Fixation of Lisfranc Injuries
Jamal Ahmad, MD

11:03 am  Discussion

11:00 am – 12:15 pm  Concurrent Breakouts
(Descriptions on pages 50 - 53)

Mini Symposia  – No Charge.
Seating available first come, first-served.

11:00 am  From Good to Great: Improving your Treatment of Pelvic Trauma
Moderators: Jaimo Ahn, MD and Derek Donegan, MD
Faculty: Andrew R Burgess, MD; David L Helfet, MD;
Milton L ‘Chip’ Routt, MD; H Claude Sagi, MD;
Adam J Starr, MD

11:00 am  Disaster Management: Are You Prepared?
Moderator: Samir Mehta, MD
Faculty: Paul T Appleton, MD; James C Krieg, MD;
Christian N Mamczak, DO; Saqib Rehman, MD

11:00 am  The 8 Practices of Highly Successful Surgeons
Moderator: Jeffrey M Smith, MD
Faculty: Virginia Aherin, CPC; Tambre Leighn, CPC;
Chris Moody, CPC
Saturday, October 10, 2015

11:08 am - 12:22 pm  Paper Session 7  Hip Fractures
Moderators:  Michael J Gardner, MD  Dean G Lorich, MD

11:08 am  Paper 95  Femoral Neck Shortening Is Associated with Worse Functional Outcome: Analysis of The Prospective Multi-Center Study of Hip Fracture Outcomes in China (SHOC)  Gerard Slobogean, MD, MPH, FRCSC; David Stockton, MD; Bingfang Zeng, MD; Dong Wang, MD; Baotong Ma, MD; Andrew Pollak, MD

11:14 am  Paper 96  A Case-Control Study of Total Hip Arthroplasty after Failed Proximal Femoral Fracture Fixation:  David Walmsley, MD; Zachary Morison, MSc; Aaron Nauth, MD, FRCSC; Michael McKee, MD; James Waddell, MD, FRCSC; Emil Schemitsch, MD

11:20 am  Discussion

11:25 am  Paper 97  Hip Fracture Treatment at Orthopaedic Teaching Hospitals: Better Care at a Lower Cost  Sanjit Konda, MD; Arthur Manoli, BS; Karan Patel, BS; Kenneth Egol, MD

11:31 am  Paper 98  Is it Safe to Operate on Therapeutically Anticoagulated Hip Fractures?  David Saper, MD; Kyle Lybrand, MD; Kasey Bramlett, PA-C; Michael Kain, MD; Paul Tornetta, MD; Peter Althausen, MD, MBA; Andrew Marcantonio, DO, MBA

11:37 am  Paper 99  Short vs Long Cephalomedullary Nails for Fixation of Stable vs. Unstable Intertrochanteric Femur Fracture at a Level I Trauma Center  Michael Beebe, MD; D Andrew Hulet, BS; Casey Whale, BS; Chong Zhang, MS; Jeremy Gilliland, MD; David Rothberg, MD; Erik Kubiak, MD

11:43 am  Discussion

11:48 am  Paper 100  Myth or Taboo? Use of Long Threaded Screws in Femoral Neck Fractures  Hyung Keun Song, MD; Kyu Hyun Yang, MD; Jun Young Chung, MD; Dong Hyun Kang, MD; Xuanlin Zheng, MD

11:54 am  Paper 101  Percutaneous Cannulated Screw Versus Dynamic Hip Screw Fixation for Intracapsular Femoral Neck Fracture: A Comparative Study  Girish Swamy, MRCS; Ali Shah, MRCS; Sami Hassan, MRCS; Abdul Aziz, MRCS; Christopher Moran, MD, FRCS; Daren Forward, MD

12:00 pm  Discussion

12:05 pm  Paper 102  Relationship between the Charlson Comorbidity Index and Cost of Treating Geriatric Hip Fractures: Implications for Bundled Payment  Daniel Johnson, BS; Vasan Subramaniam, BA; Sarah Greenberg, BA; Rachel Thakore, BS; Jesse Ehrenfeld, MD, MPH; Hassan Mir, MD, MBA; Amir Jahangir, MD; Manish Sethi, MD; William Obremskey, MD, MPH

12:11 pm  Paper 103  Missing Data May Invalidate Hip Fracture Database Studies  Bryce A Basques, MD, MHS; Adam Lukasiewicz, MSc; Andre Samuel, BBA; Matthew Webb, BA; Daniel D Bohl, MD, MPH; Jonathan Grauer, MD

12:17 pm  Discussion

12:22 pm - 1:22 pm  Lunch

12:35 pm - 1:20 pm  Guided Poster Tours
(PT5)  Knee/Tibia  Guide: J Tracy Watson, MD
(PT6)  Reconstruction/General Interest  Guide: Michael J Gardner, MD

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
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<th>Time</th>
<th>Session</th>
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<tr>
<td>1:22 pm</td>
<td>Paper Session 8</td>
<td><strong>Infection &amp; General Interest II</strong></td>
<td>David Sanders, MD</td>
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<td><strong>Moderator:</strong> David Sanders, MD</td>
<td>Brett D Crist, MD</td>
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<td>1:22 pm</td>
<td><strong>Paper 104</strong></td>
<td>Topical Vancomycin Powder Decreases the Incidence of S Aureus Infections in Operatively Treated Fractures</td>
<td>Rabah Qadir, MD; Timothy Costales, BS; Max Coale, BA; Timothy Zerhusen, BS; Manjari Joshi, MD; Robert O'Toole, MD</td>
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<td>1:28 pm</td>
<td><strong>Paper 105</strong></td>
<td>Topical Antibiotics for Infection Prophylaxis in Pelvic and Acetabular Surgery</td>
<td>Matthew Owen, MD; Jason Lowe, MD; Emily Keener, DO; Zane Hyde, MD; Reaves Crabtree, BS</td>
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<td>1:34 pm</td>
<td><strong>Paper 106</strong></td>
<td>Vancomycin Powder Reduces Infection in an Open Fracture Model</td>
<td>David Tennent, MD; Stefanie Shiels, PhD; Carlos Sanchez, PhD; Daniel Stinner, MD; Joseph Wenke, PhD</td>
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<td>1:40 pm</td>
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<td>Discussion</td>
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<td>1:45 pm</td>
<td><strong>Paper 107</strong></td>
<td>Open Ankle Fractures: What Predicts Infection?</td>
<td>Paul Tornetta, MD; Margaret Cooke, MD; Douglas Weinberg, MD; Heather Vallier, MD; Reza Firoozabadi, MD; Timothy Alton, MD; Megan Shimota, MD; Jerald Westberg, BA; CAPT (ret) Michael Bosse, MD; Daniel Leas, MD; Michael Archdeacon, MD; Rafael Kakazu, MD; Robert O'Toole, MD; Timothy Costales, BS; Brian Mullis, MD; Kenneth Egol, MD; Stephen Kottmeier, MD; David Sanders, MD; Clifford Jones, MD, FACS; Anna Miller, MD, FACS</td>
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<td>1:51 pm</td>
<td><strong>Paper 108</strong></td>
<td>Fracture Union Following Infected Hardware Fixation – A Prospective Population Based Cohort Study</td>
<td>Daniel Benz, MBBS; Nick Fountas, MBBS; Reza Rahim, MBBS; Mark Loewenthal, FRACP; Khine Swe, MBBS; David Dewar, FRACS (Ortho)</td>
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<td>1:57 pm</td>
<td><strong>Paper 109</strong></td>
<td>Correlation between Routine Microbiology Results at Definitive Closure and Wound Infection in Type III Tibia Fractures: Results from a Multi-Center, Prospective Cohort Study</td>
<td>CAPT (ret) Michael Bosse, MD; METRC Bioburden</td>
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<td>2:03 pm</td>
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<td>Discussion</td>
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<td>2:08 pm</td>
<td><strong>Paper 110</strong></td>
<td>Culture Negative Infection After Traumatic Injury</td>
<td>I Leah Gitajn, MD; Marilyn Heng, MD; Mitchell Harris, MD</td>
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<td>2:14 pm</td>
<td><strong>Paper 111</strong></td>
<td>Can MRSA Screening Swabs Help Predict Risk of Post-Operative Infection Following Open Fracture Treatment?</td>
<td>Cassandra Cardarelli, MD; Matt Vasquez, MD; Jacob Glaser, MD; Sarah Murthi, MD; Michelle Romero, BS; Kerry Campbell, BS; Michael McCusker, BS; Marcus Sciadini, MD; Robert O'Toole, MD; Manjari Joshi, MD</td>
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<td>2:20 pm</td>
<td><strong>Paper 112</strong></td>
<td>Vancomycin and Cefepime Antibiotic Prophylaxis for Open Fractures as Effective As Cefazolin And Gentamicin, Avoids Potential Nephrotoxicity, Does Not Result in Antibiotic Resistance with MRSA</td>
<td>Benjamin Maxson, DO; Rafael Serrano-Riera, MD; Mark Bender, DC; H Claude Sagi, MD</td>
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<td>2:26 pm</td>
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<td>Discussion</td>
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<td>2:31 pm</td>
<td><strong>Paper 113</strong></td>
<td>A Supply and Demand Analysis of the Orthopaedic Trauma Surgeon Workforce in the United States</td>
<td>John Sielatycki, MD; Hassan Mir, MD, MBA; Jeffrey Sawyer, MD</td>
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<td>2:37 pm</td>
<td><strong>Paper 114</strong></td>
<td>Effect of a Dedicated Orthopaedic Advanced Practice Provider in a Level I Trauma Center: Analysis of Length of Stay and Cost</td>
<td>Elise Hiza, MD; Michael Gottschalk, MD; Erica Umpierreze, BA; Patricia Bush, MS; William Reisman, MD</td>
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<td>2:43 pm</td>
<td><strong>Paper 115</strong></td>
<td>Does Nutritional Intervention Improve Nutritional Outcomes in Orthopaedic Trauma Patients, A Randomized Prospective Study</td>
<td>Reza Firoozabadi, MD; Benjamin Hamilton, BS, MS; Julie Agel, ATC; M Bradford Henley, MD, MBA, FACS</td>
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Saturday, October 10, 2015

2:49 pm  Paper 116
Do Patients know their Post-Operative Plan?: A Prospective Cohort Study of Orthopaedic Trauma Patients
Adam Jester, MD; Christopher Ruland, MS; Ebrahim Paryavi, MD, MPH; Max Coale, BA; Timothy Zerhusen, BS; Robert O'Toole, MD

2:55 pm  Discussion

1:30 pm – 3:00 pm  Concurrent Breakouts
(Descriptions on pages 50 - 53)

Mini Symposia – No Charge.
Seating available first come, first-served.

1:30 pm  From the Operating Room to the Boardroom - Applying an MBA to Benefit Orthopaedic Traumatology
Moderator:  Hassan R Mir, MD, MBA
Faculty:  Peter L Althausen, MD, MBA; David J Hak, MD, MBA; M Bradford Henley, MD, MBA; Robert A Probe, MD; Craig S Roberts, MD, MBA; George V Russell, MD, MBA

1:30 pm  ORIF Versus Acute Arthroplasty for Common Extremity Injuries: What Does Evidence-Based Medicine Tell Us?
Moderator:  Emil H Schemitsch, MD
Faculty:  Hans Kreder, MD; Michael McKee, MD; Aaron Nauth, MD; Andrew Schmidt, MD

3:00 pm  Break - NO EXHIBITS

3:15 pm - 5:10 pm  Paper Session 9
Upper Extremity and Wrist
Moderator:  Gerard P Slobogean, MD
  Raymond A Pensy, MD

3:15 pm  Paper 117
Anterior-Inferior Plating Results in Fewer Secondary Interventions Compared to Superior Plating for Acute Displaced Mid-Shaft Clavicle Fractures
Rafael Serrano-Riera, MD; H Claude Sagi, MD; Roy Sanders, MD

3:21 pm  Paper 118
Introducing the Surgical Therapeutic Index in Trauma Surgery: An Assessment Tool for the Benefits and Risks of Different Operative Fracture Treatment Strategies
Olivier Van Der Meijden, MD, PhD; Marin Houver, PhD; Frans-Jasper Wijdicks, MD, PhD; Marcel Dijkgraaf, PhD; Luke Leenen, Prof. dr.; Michael Verhofstad, MD, PhD; Egbert JMM Verleisdonk, MD, PhD

3:27 pm  Paper 119
Effects of Injury and Social Factors on Functional Outcomes After Clavicle Fracture
Joshua Napora, MD; Dominic Grimberg, BS; Benjamin Childs, BS; Heather Vallier, MD

3:33 pm  Discussion

3:38 pm  Paper 120
Results and Outcomes After Midshaft Clavicle Fracture: Matched Pair Analysis of Operative Versus Non-Operative Management
Joshua Napora, MD; Dominic Grimberg, BS; Benjamin Childs, BS; Heather Vallier, MD

3:44 pm  Paper 121
Scapular Dyskinesis Following Displaced Fractures of the Middle Clavicle
Edward Shields, MD; Caleb Behrend, MD; Tanya Beiswenger, DPT; Benjamin Strong, MD; Michael Maloney, MD; Ilya Voloshin, MD

3:50 pm  Paper 122
Proximal Humerus Fracture Fixation with Locking Plate: Screws with a Length of 45 mm or Longer Are Related to Increased Risk of Cut-Out
Julien Goulet, MD; Jérémie Ménard, Ing; Julien Chapleau, MD, MSc; Georges-Yves Lafliamme, MD, FRCSC; Dominique Rouleau, MD, MSc, FRCSC

3:56 pm  Discussion
Saturday, October 10, 2015

4:01 pm  **Paper 123**
The Impact of Residual Angulation on Patient Reported Functional Outcome Scores after Non-operative Treatment for Humeral Shaft Fractures
Edward Shields, MD; Leigh Sundem, BS; Sean Childs, BS; Michael Maceroli, MD; Catherine Humphrey, MD; John Keitz, MD; Gillian Soles, MD; John Gorczyca, MD

4:07 pm  **Paper 124**
Scoring Cortical Healing of Humeral Shaft Fractures Improves Interobserver Reliability
Anthony Christiano, BA; Abraham Goch, BS; Christopher Burke, MD; Philipp Leuch, MD, PhD; Kenneth Egol, MD; Sanjit Konda, MD

4:13 pm  **Paper 125**
Optional Follow-Up Visits for Common, Low-Risk Arm Fractures
Abigail Finger, BA; Teun Teunis, MD; Michiel Hageman, MD; Emily Thornton, BS; Valentin Neuhaus, MD PhD; David Ring, MD PhD

4:19 pm  Discussion

4:24 pm  **Paper 126**
Impact of Olecranon Fracture Malunion: Study on the Importance of PUDA (Proximal Ulna Dorsal Angulation)
Julien Chapleau, MD, MSc; Frédéric Balg, MD, FRCS; Edward Harvey, MD, MSc, FRCS; Jérémie Ménard, Ing; Frédéric Vauclair, MD; George Laffamme, MD; Dominique Rouleau, MD, MSc, FRCS

4:30 pm  **Paper 127**
Surgical Treatment of Chronic Elbow Dislocation Allowing Early Range of Motion: Operative Technique and Early Clinical Results
Justin Haller, MD; Lucas Anderson, MD; Duane Anderson, MD

4:36 pm  **Paper 128**
Posttraumatic Elbow Arthrofibrosis Incidence and Risk Factors: A Retrospective Review
Lucas Marchand, MD; Zachary Working, MD; J Williams, MD; Iain Elliott, MD; Ami Stuart, PhD; David Rothberg, MD; Thomas Higgins, MD; Erik Kubiak, MD

4:42 pm  **Paper 129**
Early Mobilization Versus Plaster Immobilization of Simple Elbow Dislocations: A Cost Analysis of the (Blinded) Multicenter Randomized Clinical Trial
GIT Jordens, MD; Esther Van Lieshout, PhD, MSc; Suzanne Polinder, PhD; Denise Eygendaal, MD, PhD; Michael Verhofstad, MD, PhD; Niels Schep, MD, MSc, PhD; Dennis Den hartog, MD, PhD

4:48 pm  Discussion

4:53 pm  **Paper 130**
Dorsal Tangential View: A Useful Tool for Assessment of Dorsal Screw Penetration in Distal Radius Fracture Fixation?
Devin Ganesh, MD; Ben Service, MD; Brian Zirgibel, MD; Kenneth Koval, MD

4:59 pm  **Paper 131**
Timing of Treatment of Open Distal Radial Fractures in Adults
Jarid Tareen, MD; Adam Kaufman, MD; Raymond Pensy, MD; Robert O’Toole, MD; Andrew Eglseder, MD

5:05 pm  Discussion

5:10 pm  Closing Remarks and Adjourn
Poster 1
Posterior Facet Settling and Changes in Bohler’s Angle in Operatively and Non-Operatively Treated Calcaneus Fractures: Implications for Management
Tyler Gonzalez, MD MBA; Robert Lucas, BA; Timothy Miller, MD; I. Leah Gitajn, MD; David Zurakowski, PhD; John Kwon, MD

Poster 2
Functional Outcomes of Minimally Invasive Versus Extensile Lateral Approach for Intraarticular Calcaneus Fractures
Seth Gengler, DO; Michael Swords, DO; Robert Zondervan, MS; Landon Fine, DO; Phillip Penny, DO, MA, BS; Andrew Sands, MD

Poster 3
Modification of the Distal Tibiofibular Relationship of the Normal Ankle in Planter Flexion and Dorsiflexion Measured on MRI images
Marie-Lyne Nault, MD, PhD; Jonah Hebert-Davies, MD; Mélissa Marien; George Laflamme, MD; Dominique Rouleau, MD, MSc, FRCS; Vincent Pelsser, MD; Stéphane Leduc, MD

Poster 4
Efficacy of Immediate Postoperative Pain Control Modalities after Ankle Fracture Fixation: A Multimodal Comparison
David Ding, MD; Christian Pean, MS; Sudheer Jain, MD; Kenneth Egol, MD; Nirmal Tejwani, MD

Poster 5
Open Treatment of Ankle Fracture as an Inpatient Increases the Risk of a Complication
Frank Avilucea, MD; Paul Whiting, MD; Sarah Greenberg, BA; Basem Attum, MD; Amir Jahangir, MD; Hassan Mir, MD, MBA; William Obremskey, MD, MPH; Manish Sethi, MD

Poster 6
Predictors of Adverse Events for Ankle Fractures: An Analysis of 6,800 Patients
Sarah Greenberg, BA; Catherine Bulka, MPH; Amir Jahangir, MD; Hassan Mir, MD, MBA; Eduardo Burgos, MD; Ronald Baker, MD; William Obremskey, MD, MPH; Manish Sethi, MD

Poster 7
A Novel Method to Quantify Ankle Soft Tissue Envelope and its Association with Surgical Site Infections after Open Reduction Internal Fixation of Unstable Ankle Fractures
Michael Chiu, MD; Stephen Yu, MD; Andrew Worden, BS; Matthew Steffes, BS; Stuart Guthrie, MD

Poster 8
Improving Outcomes in Patients with Ankle and Hindfoot Fusions Following Trauma
Andrew Sheean, MD; David Tennent, MD; Johnny Owens, BS, MPT; Jason Wilken, PhD, MPT; Joseph Hsu, MD; Daniel Stinner, MD

Poster 9
Incidence of Preoperative Deep Venous Thrombosis in Isolated Calcaneal Fractures
Joan Williams, MD; Milton Little, MD; Patricia Kramer, PhD; Stephen Benirschke, MD

Poster 10
Early Weight-Bearing After Fracture Fixation Does Not Affect Fracture Healing or Loss of Fixation Compared with Non-Weight-Bearing
Brandon Horne, MD; Renn Crichlow, MD; Kathy Flint, MSN

Poster 11
Determinants of Functional Outcome after Operative Calcaneus Fractures
Michael Hermelin, BA; Heather Vallier, MD

Poster 12
CT Assessment of Peroneal Tendon Displacement and Posteromedial Structure Entrapment in Pilon Fractures
Alejandro Miranda, MD; Alex Fokin Jr, MD

Poster 13
Anatomic Syndesmotic Reduction: Using Intraoperative Fluoroscopic Imaging to Ensure Accurate Clamp Position
Sara Putnam, MD; Michael Linn, MD; Michael Gardner, MD; Christopher Cosgrove, MD; Steven Cherney, MD; Amanda Spraggs-Hughes, MA; Christopher McAndrew, MD; William Ricci, MD

Poster 14
Operative Repair of Proximal Humerus Fractures in Septuagenarians and Octogenarians: How Old is Too Old?
Abraham Goch, BS; Christian Pean, MS; Kari Broder, BA; Sanjit Konda, MD; Philipp Leucht, MD, PhD; Kenneth Egol, MD

Poster 15
Bisphosphonate Associated Periprosthetic Fractures: A Multicentre Retrospective Review of a New Cause of Periprosthetic Stress Fractures
Ross Leighton, MD, FRCS, FACS; Juan De Dios Robinson, BA, MBBS, MSc, FRCS (Ortho); Kelly Trask, MSc; Yelena Bogdan, MD; Paul Tornetta, MD

Poster 16
Total Hip Arthroplasty for Femoral Neck Fractures: Does Hospital Arthroplasty Volume Influence Outcomes?
Michal Maceroli, MD; Lucas Nikkel, MD; Bilal Mahmood, MD; John Ellar, MD

Poster 17
Does Admission to Medicine or Orthopaedics Impact a Geriatric Hip Patient’s Hospital Length of Stay?
Sarah Greenberg, BA; Jacob VanHouten, MS; Robert Boyce, MD; Craig Melbourne, BS; Amir Jahangir, MD; Hassan Mir, MD, MBA; William Obremskey, MD, MPH; Manish Sethi, MD

Poster 18
Cephalomedullary Nail vs. Sliding Hip Screw for Fixation of OTA 31A1/2 Intertrochanteric Femur Fractures - a 12-Year Comparison
Casey Whale, BS; Michael Beebe, MD; David Hulet, BS; Chong Zhang, MS; Jeremy Gilliland, MD; David Rothberg, MD; Erik Kubiatk, MD
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Utility of Advanced Imaging in Treating Pelvic Ring Insufficiency Fractures in the Geriatric Population
Harold Fogel, MD; Roman Natoli, MD; Daniel Holt, BS; Adam Schiff, MD; Mitchell Bernstein, MD, FRCCSC; Hobie Summers, MD; William Lack, MD

Poster 20
Helical Blade vs Lag Screw Fixation for Cephalomedullary Nailing of Low Energy Pertrochanteric Femur Fractures: Is there a difference in cutout?
Lorraine Stern, MD; John Gorczyca, MD; Stephen Kates, MD; John Ketz, MD; Gillian Soles, MD; Catherine Humphrey, MD

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What are the Risk Factors for a Delay of 48 Hours or More in the Surgical Management of Geriatric Hip Fractures?
Michael Weaver, MD; Marilyn Heng, MD; Adil Shah, MD; Mitchel Harris, MD; Adil Haider, MD, MPH

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Retrospective Analysis of Distal Ulna Fractures Associated with Distal Radius Fractures in Women 50 Years and Older: Clinical, Radiographic, and Patient Related Outcomes
Geoffrey Johnston, MD, MBA; Laura Sims, MD; Samuel Stewart, PhD

Poster 23
Prevalence of Osteoporosis, Low and Normal Bone Density in Women Over Fifty with a Distal Radius Fracture, and their Relationship to Clinical and Radiographic Outcomes
Geoffrey Johnston, MD, MBA; Alexander Perreault, MD; Samuel Stewart, PhD

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Prophylactic Fixation of Contralateral Side is Cost-Effective After Bisphosphonate-Associated Atypical Femur Fracture
Bonnie Chien, MD; David Kaufman, MD; Michael Longoria; Ross Shachter, PhD; Julius Bishop, MD

Poster 25
Retrospective Review of Completed Displaced Femoral Neck Stress Fractures in Young Adults
Gregory Staeheli, MD; Kevin Kuhn, MD; Grant Cochran, MD

Poster 26
Outcome of Periprosthetic Femoral Fractures with Retained Total Hip Arthroplasty Treated with a Polyaaxial Locking Plate
Martin Hoffmann, MD; Sebastian Lotzien, MD; Thomas Schildhauer, MD, PhD

Poster 27
Extra-capsular Proximal Femoral Fractures (OTA/AO 31-A) in Young Adults Have Surprisingly Poor Outcomes
Darryl Ramoutar, MBChB MA MSc FRCs (Tr&Orth); Preetham Kodumuri, MBBS MRCs; Jeremy Rodrigues, MBChB MRCs MSc; Simon Olewicz, MBBS; Christopher Moran, MD, FRCS; Daren Forward, MD

Poster 28
Intraoperative Fluoroscopy Underestimates Malreduction of Displaced Femoral Neck Fractures
Garin Hecht, MD; Patrick Michelier, BS; Blythe Durbin-Johnson, PhD; Jonathan Eastman, MD

Poster 29
Safety of Osseointegrated Prosthesis for Trans-femoral Amputees
Munjed Al Muderis, FRACS, FRCS (Ortho), MB, ChB; Aditya Khemka, MBBS, MS Orthopedics, PhDc; Sarah Lord, MBBS, MSc; Henk Van de Meent, MD, PhD; Jan Paul Frolke, MD

Poster 30
Return to Duty in Military Members Following Surgical Treatment of Incomplete Femoral Neck Fractures
Clare Griffis, MD; Vanna Rocchi, DO; Kevin Kuhn, MD

Poster 31
The Trochanteric Fixation Nail and Axial Migration: Tip-Apex Distance Revisited
Stephen Flores, MD; Adam Wooldridge, MD, MPH; Dylan Homen, BS; Mark Jenkins, MD; Terrance Rodrigues, BS; Cyrus Caroom, MD

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Impact of Increasing Fracture Comminution and Severity on Achieving Optimal Femoral Version: An Analysis of 307 Intramedullary Femoral Nails
Richard Yoon, MD; David Galos, MD; Neeraj Patel, MD, MPH, MBS; Kenneth Egel, MD; Frank Liporace, MD

Poster 33
Fewer Complications Performing Total Hip Arthroplasty Through a Direct Anterior Approach for Femoral Neck Fracture
Justin Haller, MD; Zachary Working, MD; Jeremy Gilliland, MD; David Rothberg, MD; Erik Kubiak, MD

Poster 34
Impact of Surrounding Canal Size on Union Following Limited Reamed Intramedullary Nailing of Femur Fractures
Mark Gage, MD; Richard Yoon, MD; Daniel Seigerman, MD; Dereck Donegan, MD; Philip Lim, BS; MD; John Koerner, MD; Frank Liporace, MD

Poster 35
Intramedullary Nailing of Femoral Shaft Fractures: Does Size Matter?
Rafael Serrano-Riera, MD; Roy Sanders, MD

Poster 36
Morphological Variations and Regional Radii of Curvature of the Femur
John Lee, MD, MS; Samuel Rosenbaum, MD; Manuel Schubert, MD; Stewart Wang, MD, PhD; James Goulet, MD
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The Stability of Fixation of Proximal Femoral Fractures: A Radiostereometric Analysis
Daphne van Embden, MD; Guido Stollenwerck, MD; Lennard Koster, BS; Bart Kaptein, MD PhD; Rob Nelissen, MD PhD; I.B. Schipper, MD PhD

Poster 38
The Effect of Helmet-Use on Motorcycle Trauma Outcomes
Daniel Wiznia, MD; Chang-Yeon Kim, BS, MS; Alex Goel, BS; Michael Leslie, DO

Poster 39
Multi-Disciplinary Malnutrition Screening Program in Orthopaedic Trauma Patients
Michael Willey, MD; Nathan Nicholson, MD; Matthew Karam, MD; Larry Marsh, MD

Poster 40
Risk of Second Hip Fracture Persists for Years After Initial Trauma
Katie Sheehan, PT PhD; Boris Sobolev, PhD; Lisa Kuramoto, MSc; Pierre Guy, MD

Poster 41
Extensor Mechanism Injuries of the Knee: Patient Demographics and Comorbidities from a Review of 726 Patients
Matthew Garner, MD; Elizabeth Gausden, MD; Marshall Berkes, MD; Joseph Nguyen, MPH; Dean Lorich, MD

Poster 42
Does Partial Patellectomy Lead to Patella Baja?
Brooke Crawford, MD; David Leenan, BS; Lisa Cannada, MD

Poster 43
Clinical and Radiographic Predictors of Acute Compartment Syndrome in Tibial Plateau Fractures
Axel Gamulin, MD; Anne Lübbeke, MD, DSc; Patrick Belinga, MD; Pierre Hoffmeyer, MD; Gregory Cunningham, MD

Poster 44
The Treatment of Difficult Patella Fractures with the Multiple Wire and Tension Band Technique
Dustin Hambright, MD; Kempland Walley, BS; Amber Hall; Paul Appleton, MD; Edward Rodriguez, MD

Poster 45
Posttraumatic Total Knee Arthroplasty Continues to Have Worse Outcome than Total Knee Arthroplasty for Osteoarthritis
Matthew Houdek, MD; Eric Wagner, MD; Steven Shannon, MD; Chad Watts, MD; Stephen Sems, MD; Rafael Sierra, MD

Poster 46
Early Posteromedial Incision Does Not Increase Wound Complications or Total Operative Time in AO/OTA 41 Type C Tibial Plateau Fractures
Darryl Auston, MD/PhD; Matthew Albanese, BS; Emil Azer, MD; Robert Simpson, MD

Poster 47
Risk Factors for Infection after Operative Fixation of Tibial Plateau Fractures
Jimmy Hlavacek, MD; Amit Momaya, MD; Brian Eiter, MD; David Johannesmeyer, MD; Lasun Oladeji, MS; Emily Keener, DO; Jason Lowe, MD

Poster 48
Indirect Medial Reduction and Endosteal Strut Graft Support of Complex Tibial Plateau Fractures with Diaphyseal Extension
Lionel Lazaro, MD; Stephen Warner, MD, PhD; Jeremy LaMothe, MD; Jason Halvorson, MD; David Helfet, MD; Dean Lorich, MD

Poster 49
Prospective, Multi-Center, Observational Study Evaluating the Augmentation with Calcium Phosphate Cement (chronOS Inject) for Bone Defect after Internal Fixation of Proximal Tibial Fractures
Ki-Chul Park, MD, PhD; Chang-Wug Oh, MD, PhD; Ji-Wan Kim, MD; Jung-Jae Kim, MD, PhD; Hyun Joong Cho

Poster 50
Traumatic Knee Dislocations in the Obese and Morbidly Obese from 2000 to 2010: Increased Incidence and Rate of Vascular Intervention
Stephen Klinge, MD; Philip McClure, MD; Joseph Johnson, MD; Dominic Kleinhenz, MD; COL (ret) Roman Hayda, MD; Christopher Born, MD

Poster 51
Rate of Total Knee Arthroplasty after Tibial Plateau Fracture
Erin Donohoe, MB, BCh, BAO; Abdel Lawendy, MD, PhD; James Howard, MD; David Sanders, MD

Poster 52
Incidence and Location of Articular Malreductions of the Tibial Plateau Identified on Post-Operative CT Scan
Brad Meulenkamp, MD; Desy Nicholas, MD; Ryan Martin, MD; Richard Buckley, MD

Poster 53
BMI as a Predictor of Perioperative Complications Following Orthopaedic Trauma Surgery: An ACS-NSQIP Analysis
Paul Whiting, MD; Gabrielle White-Dzuro, BA; Sarah Greenberg, BA; Frank Avilucea, MD; Hassan Mir, MD, MBA; Amir Jahangir, MD; William Obremskey, MD, MPH; Manish Sethi, MD

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Pre-operative Labs: Wasted Dollars or Predictors of Post-Operative Cardiac and Septic Events in Orthopaedic Trauma Patients?
Vasanth Sathyakumar, BA; Sarah Greenberg, BA; Hassan Mir, MD, MBA; Amir Jahangir, MD; William Obremskey, MD, MPH; Manish Sethi, MD

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Stephen Wegener, PhD; METRC TCCS Investigators, PhD, MD

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James Fagg, MBChB,MRCS (Ed),FRCS (Tr&Orth); Mehool Acharya, BSc(Hons), MBChB,MRCS,FRCS(Tr&O); Tim Chesser, FRCS; Anthony Ward, BMedSc (Hons), BM BS, FRCS

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Douglas Weinberg, MD; Arvind Narayanan, BBA; Timothy Moore, MD; Heather Vallier, MD

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Greg Gaski, MD; Travis Frantz, BS; Tyler McCarroll, BS; Scott Steenburg, MD; Todd McKinley, MD
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Brian Hedges, BS; Timothy Moore, MD; Heather Vallier, MD

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Anthony Christiano, BA; Christian Pean, MS; Kenneth Egol, MD

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CAP (ret) Michael Bosse, MD; METRC Bioburden

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Eric Barcak, DO; Cory Collinge, MD

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Devon Ryan, BA; Natalia Iofin, MD; Kenneth Egol, MD

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Utku Kandemir, MD; Alexander Theologis, MD

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Vahid Entezari, MD; Jeffrey Olson, BA; Heather Vallier, MD

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Michael Shuler, MD; Mellisa Roskosky, MSPH; William Reisman, MD; Charles Ogburn, MD; Tracy Kinsey, MSPH; Brett Freedman, MD

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Outcomes of Open Acetabular Fractures in Combat Related Trauma
Louis Lewandowski, MD; Matthew Kluk, MD; Richard Purcell, MD; Steven Grijalva, MD; Wade Gordon, MD

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Outcomes of Open Pelvic Ring Fractures in Combat Related Trauma
Louis Lewandowski, MD; Matthew Kluk, MD; Richard Purcell, MD; Steven Grijalva, MD; Wade Gordon, MD

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Risk factors for Amputation in Combat-Related Tibia Injuries
Matthew Hanley, MD; Benjamin Chi, MD; Richard Purcell, MD; Wade Gordon, MD; Daniel Kang, MD

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Combat Periarticular Tibia Injury Outcome Study (CAPTIOUS): Risk Factors For Reoperation and Amputation After Open Periarticular Tibia Fractures
Mark Fleming, DO; Husain Bharmal, MD; Korboi Evans, MD; Louis Lewandowski, MD

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The Minimal Clinically Important Difference of the Patient-Rated Wrist Evaluation Score for Patients with Distal Radius Fractures: A Prospective Cohort Study
Monique Walenkamp, MD, MSCE; Lara Vos, MD; Robert-Jan de Muinck Keizer, MD; J.C. Goslings, MD, PhD; Niels Schep, MD, MSc, PhD

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
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Assessment of Pronator Quadratus Repair Integrity using Dynamic Ultrasonography Following Volar Plate Fixation for Distal Radius Fractures
John Capo, MD; Ronald Adler, MD, PhD; Richard Hinds, MD; Nicole Montero-Lopez, MD; Katharine Criner, MD; Kenneth Brock, BS; Anthony Sapienza, MD; Nader Paksima, DO, MPH

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Bier Block Anesthesia for Distal Radius Fracture Reduction in the ER: Is It Safe?
Lucas Marchand, MD; Lance Jacobson, MD; Zachary Working, MD; Iain Elliott, MD; Erik Kubiak, MD; Thomas Higgins, MD; David Rothberg, MD

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Can the Visual Analog Scale be Used as a Long-Term Outcome Instrument to Track Pain Severity in Orthopedic Patients?
Peter Noback, BA; Derly Cuellar, MD; Joseph Lombardi, MD; Melvin Rosenwasser, MD

GUIDED POSTER TOURS

Friday, October 9, 2015

12:30 pm - 1:15 pm  (PT1) International
Guide: Peter V Giannoudis, MD

12:30 pm - 1:15 pm  (PT2) Hip, Femur, Geriatric
Guide: Thomas F Higgins, MD

'Suds and Science' Poster Tours
Enjoy a poster tour, lively discussion, and a beverage with colleagues.

5:48 pm - 6:45 pm  (PT3) Foot and Ankle
Guide: Paul Tornetta III, MD

5:48 pm - 6:45 pm  (PT4) Upper Extremity
Guide: Michael D McKee, MD

Saturday, October 10, 2015

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

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

Poster Viewing Hours:
Thursday, 10/8, 2:30 pm thru Saturday, 10/10, 1:30 pm
ORTHOPAEDIC TRAUMA FOR PAs and NPs

Cory A Collinge, MD, Michael J Gardner, 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 earlier in their careers or experience of treating orthopaedic trauma while practicing in general orthopaedics, taking acute orthopaedic call with inpatient/outpatient or caring for orthopaedic injuries in ER/UC/General Trauma services.

Presenters will discuss the foundations of acute care and evaluation of various skeletal injuries, operative positioning and fixation, and postoperative care and course of healing.
ALL levels of experience PA's and NP's are welcome and in order to allow attendees to find the most appropriate curriculum for their experience. With PA and NP course registration attendees can attend general session courses, morning case and clinical presentations, and workshops.
PA's and NP's focused in orthopaedic trauma will find this a good foundation but we also highly recommend attending our other OTA course options of Resident Comprehensive Fracture and Advanced Trauma Courses, Boot Camp, and the Annual Meeting General Session.

This program has been reviewed and is approved for a maximum of 19.5 hours of AAPA Category 1 CME credit by the Physician Assistant Review Panel. Physician assistants should claim only those hours actually spent participating in the CME activity.

This program was planned in accordance with AAPA's CME Standards for Live Programs and for Commercial Support of Live Programs.

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 8, 2015

3:25 pm - Pelvic Binder Discussion
3:40 pm Transition to Skills Lab
3:45 pm - Skills Lab
3:50 pm - Spanning Knee Ex Fix
Lab Leaders: Theodore Toan Le, MD
Charles Moon, MD

4:30 pm - Presidential Message
The $500 Check
Theodore Miclau III, MD
OTA President
(This session runs concurrent to the General Orthopaedic Issues II Session.
Attendees may choose to attend either session.)

4:30 pm - General Orthopaedic Issues II
4:30 pm - Fracture Healing
4:40 pm - Fixation Theories
4:50 pm - Discussion

6:00 pm – 8:00 pm Welcome Reception
Manchester Grand Hyatt Pool Deck
Join your colleagues for cocktails and a generous assortment of hors d’oeuvres while taking in the magnificent views of downtown, San Diego Bay and the Pacific Ocean from the pool deck of the Manchester Grand Hyatt.

Friday, October 9, 2015

6:30 am – 7:30 am Case Presentations – No Charge.
Seating available first come, first-served.
Periarticular Fractures of the Tibia: The Case for Going Prone
Moderator: Lisa K. Cannada, MD
Faculty: Stephen Kottmeier, MD; J Tracy Watson, MD
Treatment Strategies for Tibial Plateau Fractures
Moderator: Marcus F. Sciadini, MD
Faculty: Michael Archdeacon, MD; Stephen H Sims, MD; Nirmal Tejwani, MD; Philip Wolinsky, MD

8:00 am – 9:30 am Upper Extremity Fractures I
8:00 am Clavicle Fractures
Who to Fix and Who to Not
8:15 am Proximal Humeral Fractures
Op vs Nonop, Options of ORIF, Hemi, IMN
8:30 am Humeral Diaphyseal Fractures
Sarmiento, ORIF, IMN, Rehab
8:45 am Humeral Supracondylar Fractures
Approach, Reduction, Fixation, Rehab

9:00 am Cases, Questions, Discussion

9:30 am - 11:30 am Foot and Ankle Injuries
9:30 am Ankle Fractures – Type and Fixation, Syndesmosis, Deltoid Ligament, WB, Rehab
9:45 am Tibial Pilon Fractures – Distinguish Pilon from Ankle, Timing of Surgery, Approaches
10:00 am Calcaneal Fractures – Injury, Associated Injuries, Timing
10:15 am Talus Fractures – Mechanism, Reduction, Timing
10:30 am Lisfranc Injuries – Evaluation and Diagnosis, Treatment
11:00 am Cases, Questions, Discussion
Friday, October 9, 2015

11:30 am - 12:15 pm  Pediatrics  
(This session runs concurrent to the John Border Memorial Lecture. Attendees may choose to attend either session.)

11:30 am  Pediatric Elbow

11:45 am  Pediatric Femur

12:00 pm  Question and Answer

11:45 am - 12:15 pm  John Border Memorial Lecturer  
Christian Krettek, MD, FRACS, FRCSEd, Professor and Chair Hannover School of Medicine Trauma Department, Hannover, Germany

12:15 pm - 1:15 pm  Lunch and Guided Poster Tours  

(P1) International
Guide: Peter V Giannoudis, MD

(P2) Hip, Femur, Geriatric
Guide: Thomas F Higgins, MD

1:15 pm - 3:00 pm  Skills Labs  
2 labs with 45 min. rotating sessions. 15 min break in between.

Hip Nailing
Lab Leader: Christopher McAndrew, MD

Ankle ORIF
Lab Leader: Lori K Reed, MD

3:00 pm - 4:15 pm  Upper Extremity Fractures II

3:00 pm  Olecranon Fractures
TBW, Plate, IMN

3:15 pm  Forearm Fractures
Galeazzi Fractures, Timing, Approaches, Complications

3:30 pm  Distal Radius Fx
Closed Reduction, Failure of Closed Reduction, Volar vs Dorsal, Ex Fix

3:45 pm  Cases, Questions, Discussion

4:15 pm - 5:15 pm  PA NP Reception  
PA NP Leaders to answer questions and relay suggestions, suggest collaboration, ideas for future meetings

5:48 pm - 6:45 pm  'Suds and Science’ Poster Tours  

(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 10, 2015

6:30 am – 7:30 am  Skill Labs – No Charge.  
(Seating available first come, first-served.)

(SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis
Lab Leader: John Alan Scolaro, MA, MD

(SL6) Fixation of Intra-Articular Distal Humeral Fractures
Lab Leader: Michael D McKee, MD

6:30 am – 7:30 am  Case Presentations – No Charge.  
(Seating available first come, first-served.)

Proximal Humerus Fractures: Optimizing Surgical Management and Technique in 2015
Moderator: Emil H Schemitsch, MD
Faculty: Pierre Guy, MD; Dean G Lorich, MD; Michael D McKee, MD; Aaron Nauth, MD; David C Ring, MD

What Could Go Wrong Did: Getting Out of Trouble
Moderator: Lisa K Cannada, MD
Faculty: Clifford B Jones, MD; Matt Mormino, MD; Brian H Mullis, MD

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
Saturday, October 10, 2015

6:30 am – 7:30 am  “Young” Femoral Neck Fractures – Why Do They Cause so Much Stress?
Moderator: Brett D Crist, MD
Faculty: Tania Ferguson, MD; Christopher Finkemeier, MD; Mark A. Lee, MD
Distal Femur Fractures – Not as Easy as You Think
Moderator: Samir Mehta, MD
Faculty: Timothy Achor, MD; Derek Donegan, MD; Hobie Summers, MD

7:45 am - 9:00 am  Symposium IV
Elbow Trauma: How to Improve Outcomes in 2015!
Moderator: Michael D McKee, MD

7:45 am  Distal Humerus Fractures: Evidence Based Management
Emil H Schemitsch, MD
7:55 am  Radial Head / Neck Fractures: When and How to Fix
Kenneth A Ego, MD
8:05 am  Terrible Triad Injuries: How to Improve Outcomes
Aaron Nauth, MD
8:15 am  Monteggia Fracture Dislocations: Timing and Techniques
David C Ring, MD
8:25 am  Complex Injuries: The Role of Arthroplasty
Nilodar Dehghan, MD
8:35 am  Managing Complications in Elbow Fracture Surgery
Michael D McKe, MD
8:45 am  Cases, Questions, Discussion, Consensus

9:00 am  Break and Transition to Lectures

9:30 am - 11:00 am  Fractures about the Hip and Thigh
Moderator: Laura S Phieffer, MD

9:30 am  Femoral Neck Fractures - ORIF versus Hemi versus THA
9:45 am  IT/ST Fx ORIF
OHS versus Locked Plate
10:00 am  IT/ST Fx IMN Reconstruction versus Cephalomedullary IMN
10:15 am  Femoral Shaft Fractures
Approaches, Prox and Distal Third Fx
10:30 am  Cases, Questions, Discussion

11:00 am - 12:15 pm  Fractures about the Knee
Moderator: David Leu, MD

11:00 am  Femoral Supracondylar Fractures - ORIF versus IMN
11:15 am  Tibial Plateau Fractures - Single versus Dual Incisions
11:30 am  Tibial Diaphyseal Fractures - Approaches, Proximal and Distal Third Fractures
11:45 am  Cases, Questions, Discussion

12:20 pm - 1:20 pm  Lunch and Guided Poster Tours

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

1:30 pm - 3:15 pm  Skills Labs
2 labs with 45 min rotating sessions.
15 min break in between.
Distal Femoral Locked Plating
Lab Leader: Kevin D Grant, MD
Proximal Tibial Locked Plating
Lab Leader: Daniel L Stahl, MD

3:15 pm - 4:15 pm  Complication Treatment
Cory A Collinge, MD; Michael J Gardner, MD; Daniel J Coll, MHS, PA-C; Dennis C Gregory, PA-C

4:15 pm  Course Review, Evaluation, Adjournment
2015 Guest Nation: Germany

It is a great honor to welcome Professor Michael L Nerlich, MD, 2015 President of both the German Society for Trauma Surgery and German Society for Orthopaedics and Trauma Surgery. We look forward to his enlightening presentation: The German Trauma Network Initiative - Challenges and Advantages.

International Poster Reception
Wednesday, October 7, 2015
5:30 pm – 6:30 pm

All International attendees are welcome to attend.

Peter V. Giannoudis, MD, FRCS
International Committee Chair

Saqib Rehman, MD
Humanitarian Chair

Military Reception
Friday, October 9, 2015
5:48 pm – 6:45 pm

All Active Duty Military, Retired Military, and Landstuhl Distinguished Visiting Scholar participants are welcome to attend.

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

Poster Viewing Hours
Thursday, October 10, 2:30 pm thru 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 44 for details.

E-Posters
Run out of time for the posters? No problem... visit the OTA website following the meeting to view 2015 Annual Meeting E-Posters.

Women in Orthopaedic Trauma Luncheon Kathy Cramer Memorial Luncheon
Friday, October 9, 12:15 pm – 1:15 pm
Lisa M. Truchan, MD, Chair
Alexandra Schwartz, MD, Co-Chair

(Registration / ticket required)

New Member Luncheon
Friday, October 9, 2015
12:15 pm – 1:15 pm
All new and prospective members invited.

Peter A Cole, MD
Membership Committee Chair

PA/NP Reception
Friday, October 9, 2015
4:15 pm – 5:15 pm
All PA/NP Course attendees invited.

Cory A Collinge, MD
PA/NP Course Chair

Military Reception
Friday, October 9, 2015
5:48 pm – 6:45 pm

All Active Duty Military, Retired Military, and Landstuhl Distinguished Visiting Scholar participants are welcome to attend.

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All PA/NP Course attendees invited.

Cory A Collinge, MD
PA/NP Course Chair

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
CASE PRESENTATIONS

Friday, October 9, 2015

6:30 am – 7:30 am
Periarticular Fractures of the Tibia: The Case for Going Prone
Moderator: Lisa K Cannada, MD
Faculty: Stephen Kottmeier, MD; J Tracy Watson, MD
Prone positioning in the OR can be a hassle. In addition, the perception of more dangerous structures and less familiarity with the approach makes this plan less popular. By review of periarticular tibial fractures with cases, including surgical video, you will leave this session eager to choose prone, when appropriate.

6:30 am – 7:30 am
Treatment Strategies for Tibial Plateau Fractures
Moderator: Marcus F Sciadini, MD
Faculty: Michael Archdeacon, MD; Stephen H Sims, MD; Nirmal Tejwani, MD; Philip Wolinsky, MD
This case-based symposium will focus on recognizing and overcoming challenges associated with the treatment of tibial plateau fractures. Treatment strategies and techniques for provisional and definitive external fixation as well as internal fixation for unicortylar and bicondylar fractures will be covered with an emphasis on particularly challenging variants of common fracture patterns. Effective management of associated soft-tissue injuries and avoidance of common pitfalls will be emphasized and direct participation by attendees encouraged.

6:30 am – 7:30 am
Pelvis and Acetabulum Fractures
Moderator: Paul Tornetta III, MD
Faculty: Robert V O'Toole, MD; Robert Ostrum, MD; H Claude Sagi, MD; Jodi Siegel, 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 – 7:30 am
Distal Femur Fractures – Not as Easy as You Think
Moderator: Samir Mehta, MD
Faculty: Timothy Achor, MD; Derek Donegan, MD; Hobie Summers, MD
Fractures of the distal femur continue to be problematic in part due to the variability of fracture patterns and patient ages affected. The purpose of this case-based session is to review elementary and complex fractures to review diagnosis, treatment strategies, and technical considerations.

Saturday, October 10, 2015

6:30 am – 7:30 am
Proximal Humerus Fractures: Optimizing Surgical Management and Technique in 2015
Moderator: Emil H Schenitsch, MD
Faculty: Pierre Guy, MD; Dean G Lorich, MD; Michael D McKee, MD; Aaron Nauth, MD; David C Ring, MD
Proximal humerus fractures are increasing in frequency and complexity. The failure rate of operative intervention remains higher than that seen with other fractures and there remains significant room for improvement in the care of these injuries. A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of proximal humerus fractures.

6:30 am – 7:30 am
What Could Go Wrong Did: Getting Out of Trouble
Moderator: Lisa K Cannada, MD
Faculty: Clifford B Jones, MD; Matt Mormino, MD; Brian H Mullis, MD
Oftentimes a “simple” fracture turns out to be much more than that. This symposium covers the complications which could go wrong with fracture stabilization and how to avoid these problems to optimize results. The participant will learn strategies to correct the errors in the OR when recognized through tips in this symposium.

6:30 am – 7:30 am
“Young” Femoral Neck Fractures – Why Do They Cause so Much Stress?
Moderator: Brett D Crist, MD
Faculty: Tania Ferguson, MD; Christopher Finkemeier, MD; Mark A Lee, MD
An evidence-based session that will work through the main controversies in managing young adult femoral neck fractures with short didactic summaries, interactive panel debates and case discussion with audience participation. Operative techniques and complication management will also be included. The goal is to provide the participant with the confidence to deal with these fractures using an evidence-based approach, and provide them with the operative techniques to minimize risk of complications but also equip them with the knowledge on how to treat them when complications occur.

6:30 am – 7:30 am
Don't Be Scared! Evaluation and Management of Complex Pediatric Elbow Fractures
Moderator: David A Podeszwa, MD
Faculty: Christine A Ho, MD; Anthony I Riccio, MD; R Lane Wimberly, MD
This symposium is an interactive, case-based review of the complex variations of commonly presenting pediatric elbow fractures. Open discussion will cover the evaluation and pearls of managing the pulseless supracondylar humerus fracture, medial epicondyle fractures and acute and delayed presenting Monteggia fractures. A short didactic review will highlight the most current literature regarding outcomes.

www.ota.org

No Charge. Seating available first come, first-served.
MINI-SYMPOSIA

Friday, October 9, 2015

8:00 am – 9:30 am
Critical Aspects of Orthopaedic Trauma in 2015 that Can Impact your Financial Future
Moderator: Peter Althausen, MD, MBA
Faculty: Timothy Bray, MD; Austin Hill, MD, MPH; Chris McBride, MBA; Justin Walker, MD; Anthony Williams ChFC, RFC, CLU

The objective of this symposium is to provide orthopaedic trauma surgeons with an overview of the most important economic aspects of Orthopaedic Trauma which can affect all of us over the coming year. It is vital that we all understand the economic opportunities that exist nationwide to support our trauma systems, private practices, hospitals and personal finances.

8:00 am – 9:30 am
NSAIDs and Bone Healing: Clinical Practice and Understanding the Discrepancies in the Literature
Moderator: Steven A Olson, MD
Faculty: Kamal Ajam, MD; Farshid Guilak, PhD; Alejandro Marquez-Lara, MD

The purpose of this session is to discuss the value of various pain management modalities around the time of orthopaedic surgery or trauma, with an emphasis on the use of NSAIDs. Additionally, participants will be able to critically analyze the quality of the published literature that evaluates the impact of NSAIDs on bone healing as well as to highlight possible causes for the variability in the interpretation of these reports. The clinical scenarios where it is considered safe and effective to use NSAIDs for the management of postoperative pain will be discussed.

8:00 am – 9:30 am
Educating in Fracture Surgery
Moderator: Samir Mehta, MD
Faculty: Tim Achor, MD; Jaimo Ahn, MD; Matthew Graves, MD

Education is a critical component of our obligation as orthopaedic surgeons. With the decrease in work hours, increase in fellows, and utilization of advanced providers, optimizing educational opportunities is critical.

1:15 pm – 2:45 pm
Pelvic Ring Disruption Decision Making: Assessment of Stability, Strategies of Fixation, and Determining What Needs To Be Fixed
Moderator: Jason Nascone, MD
Faculty: Joshua L. Gary, MD; Pierre Guy, MD; Conor P Kleweno, MD; H Claude Sagi, MD; Adam J Starr, MD

This session will provide cased based examples with audience interaction to help the participant understand stability as it relates to pelvic ring disruptions. In addition the participants will learn strategies as to when fixation is needed and in what locations of the pelvis.

1:15 pm – 2:45 pm
Developing a Successful Clinical Research Program
Moderator: Heather A Vallier, MD
Faculty: Mary Breslin, MD; William T Obremskey, MD

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.

1:15 pm – 2:45 pm
Rib Fracture Fixation and the Surgical Management of Flail Chest Injuries: State of the Art
Moderator: Michael D McKee, MD
Faculty: Peter Althausen, MD; Niloofar Dehghan, MD; Aaron Nauth, MD; Emil H Schemitsch, MD; Gerard Slobogean, MD

Rib fracture fixation in the setting of the flail or unstable chest wall injuries in trauma patients is gaining in popularity. Although it is a non-traditional area of surgical fixation, there is some preliminary evidence that stabilization of flail chest injuries may significantly decrease patient morbidity and improve outcomes. Increasingly, orthopaedic trauma surgeons are becoming involved in the surgical management and care of these patients. This symposia will examine the history, techniques, current status, and future of rib fracture fixation.

4:30 pm – 5:45 pm
Getting Your Fragility Fracture Program Off the Ground: A Primer for the Orthopaedic Trauma Surgeon
Moderator: James A Goulet, MD
Faculty: Kyle J Jeray, MD; Clifford B Jones, MD; Joseph M Lane, MD; Debra Sietsema, MD

Orthopaedic surgeons are confronting a higher frequency of fragility fractures in their practices, as well as a considerably higher expectation that their practices will diagnose and treat the underlying basis of fragility fractures in their practices. This mini-symposium will expose attendees to methods for managing fragility fractures, and will review successful strategies for establishing and running their own fragility fracture services.

Pre-Registration Deadline September 30, 2015; On-site Registration - additional $100. See Page 59.
MINI SYMPOSIA, continued

No Charge. Seating available first come, first-served.

social media healthcare realm. The emphasis will be on WHY this may be a necessity and will educate surgeons on the use of health care social media.

Attendees will walk away with an understanding of the benefits and risks associated with social media use and how it can affect their on-line reputation. This session will also explore how physician use of social media can enhance the care and improve outcomes of patients.

Saturday, October 10, 2015

9:30 am - 11:00 am
Management of Soft Tissue Defects in the Mangled Extremity
Moderator: Raymond A Pensy, MD
Faculty: H Michael Frisch, MD; Joseph Hsu, MD; Stephen J Kovach III, MD
This “Orthoplastics” Mini-Symposia will cover recent data regarding extremity (lower and upper) salvage vs amputation, covering and expanding upon the METAL-PeriS data. This symposia will cover non-microsurgical (muscle flap expansion, propeller / perforator flaps) and advanced micro-surgical options for recalcitrant non-unions (e.g. medial femoral condyle) Finally, this symposia will cover the current concepts of further promoting the integration of the micro-vascular and orthopaedic surgeon.

9:30 am - 11:00 am
The Treatment of Periprosthetic Fractures in 2015: Can We Reach a Consensus?
Moderator: Emil H Schemitsch, MD
Faculty: George Haidukewych, MD; Michael D McKee, MD; Aaron Nauth, MD
Peri-prosthetic fractures are increasing in frequency and complexity as the number patients with a joint replacement, and their activity levels post-surgery, steadily rise. The failure rate of operative intervention remains higher than that seen with other fractures and there remains significant room for improvement in the care of these injuries. A primary goal of the symposium will be to achieve consensus opinions on many current issues and controversies regarding the treatment of peri-prosthetic fractures.

11:00 am – 12:15 pm
From Good to Great: Improving your Treatment of Pelvic Trauma
Moderators: Jaimo Ahn, MD and Derek Donegan, MD
Faculty: Andrew R Burgess, MD; David L Helfet, MD; Milton L ‘Chip’ Routt, MD; H Claude Sagi, MD; Adam J Starr, MD
So you think you’re an pelvic trauma surgeon. You’re on the steep part of the learning 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 pelvis surgeons to help get you from good to great.

11:00 am – 12:15 pm
Disaster Management: Are You Prepared?
Moderator: Samir Mehta, MD
Faculty: Paul T Appleton, MD; James C Krieg, MD; Christian N Mamczak, DO; Saqib Rehman, MD
Given the nature of geo-politics as well as the changing environment, orthopeadic trauma needs to be on the forefront in disaster management and acts of terror. The goal of this symposia is to provide concrete examples of disaster scenarios and management techniques. In addition, the goal is to provide the participant with tools to develop a local plan to address a catastrophic event.

11:00 am – 12:15 pm
The 8 Practices of Highly Successful Surgeons
Moderator: Jeffrey M Smith, MD
Faculty: Virginia Aherin, CPC; Tambre Leighn, CPC; Chris Moody, CPC
A rewarding and fulfilling surgical practice is more than the next surgical procedure. Athletes, performers, business owners and other professionals create a high level of success that is sustainable when they spend a comparable amount of time and energy learning, understanding and implementing practices that address areas beyond their specific trade or skill. This program gives an overview of the 8 essential practices and demonstrates where our standard training methods in medical school, residency, fellowship and practice actually lead to burnout or less fulfilling practice survival skills. This interactive session will also help each surgeon create action plans to create best practices for a sustainable lifestyle-friendly practice starting with energy and wellness, work-life balance, and complex problem solving (EMR, staff turnover, surgery scheduling, dealing with administrators, and so on.)
SKILLS LABS

MINI SYMPOSIA, continued

1:30 pm – 3:00 pm
From the Operating Room to the Boardroom - Applying an MBA to Benefit Orthopaedic Traumatology
Moderator: Hassan R Mir, MD, MBA
Faculty: Peter L Althausen, MD, MBA; David J Hak, MD, MBA; M Bradford Henley, MD, MBA; Robert A Probe, MD; Craig S Roberts, MD, MBA; George V Russell, MD, MBA

Due to the increasing complexities of modern healthcare, a growing number of physicians are obtaining a formal business education to help 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.

1:30 pm – 3:00 pm
ORIF Versus Acute Arthroplasty for Common Extremity Injuries: What Does Evidence-Based Medicine Tell Us?
Moderator: Emil H Schemitsch, MD
Faculty: Hans Kreder, MD; Michael McKee, MD; Aaron Nauth, MD; Andrew Schmidt, MD

Increasingly, evidence based medicine (EBM) is being promoted by various groups as the standard to define clinical care. This symposia will illustrate how the use of currently available EBM studies can aid in decision-making with regards to treatment of common extremity injuries with ORIF versus acute arthroplasty.

SKILLS LABS
No Charge. Seating available first come, first-served.

Friday, October 9, 2015

6:30 am – 7:30 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 distal interlocking screws can be placed consistently and quickly using a mechanical technique which has been used in 150,000 fractures of long bones. The goal of SIGN nail sawbones skills lab is to learn SIGN technique for stabilization of tibia and femur fractures. Table instructors will include surgeons who are OTA-SIGN Scholars.

Saturday, October 10, 2015

6:30 am – 7:30 am
(SL5) Complex Ankle Fractures: Posterior Malleolus, Syndesmosis
Lab Leader: John Alan Scolaro, MA, MD

The functional outcome of complex ankle fractures is dependent on the accurate restoration of the posterior malleolus and the syndesmosis. This lab will focus on intra-operative techniques that facilitate anatomic reduction and stable fixation of these structures.

6:30 am – 7:30 am
(SL6) Fixation of Intra-Articular Distal Humeral Fractures
Lab Leader: Michael D McKee, MD

This lab will demonstrate the advantages of parallel versus perpendicular plate fixation of these difficult to treat fractures. Attendees will also be able to familiarize themselves with features of modern plating systems that can maximize outcomes.
**INDUSTRY SYMPOSIA**

**Wednesday, October 7, 2015**

6:30 pm - 8:00 pm  –  **Registration Required**

**DJO Global (IS8)**
- 6:30 - 7:15 pm – Eliminating Cost Variation on the Treatment of Distal Radius Fractures  
  Guest Speaker: Foundation of Orthopedic Trauma (FOT) Surgeon
- 7:15 - 8:00 pm – New, Efficient and Cost Effective Treatment for Ankle Fractures  
  Guest Speaker: Kenneth J. Koval, MD, Orlando Regional Medical Center, Orlando, FL

Participating surgeons will have the opportunity to learn more about this disruptive, innovative implant & instrumentation delivery system while reviewing the clinical appropriateness in both Distal Radius and Ankle fractures. The sawbone labs will be lead by renowned trauma surgeons and supported by Lab Instructors. All are encouraged to participate in this DJO Sponsored Symposium.

**Thursday, October 8, 2015**

11:15 am - 12:45 pm  –  **Registration Required**  
(Boxed lunch available)

**DePuy Synthes Trauma (IS1)**

**DePuy Synthes Trauma (IS2)**

**Stryker Trauma (IS3)**
Current Trends, Clinical Applications and Case Studies of Orthobiologics in Orthopaedic Trauma
Faculty:  Peter Giannoudis, MD, FRCS;  
  Kenneth Koval, MD; Charles Moon, MD
Attendees will be introduced to the landscape of orthobiologics in Orthopedic Trauma. Professor Giannoudis, Dr Koval and Dr Moon will address the Current Trends, Clinical Applications and Case Studies of Orthobiologics in Orthopaedic Trauma. Topics discussed will include Masquelet, Synthetics Bone Graft Substitutes, Allografts and Next Generation Cellular Bone Allografts.

**Zimmer Biomet (IS4)**
Surgical Treatment Options for Challenging Hip Fractures

**Acumed (IS5)**
Posterior Malleolus Fracture Fixation: Tips and Pearls
Faculty:  TBA
Lecture and sawbones lab session on posterior malleolus fracture management with the new Acumed Ankle Plating System 3.

**Ellipse Technologies (IS6)**
Revolutionary Intramedullary Limb Lengthening Solution for the Orthopaedic Trauma Surgeon
Moderator/Faculty:  Austin Fragramen, MD;  
  Robert Rozbruch, MD (HSS) & Mitchell Bernstein, MD
Discussion on the latest advancement in limb lengthening surgery with a completely internal device.  This session will include tips and tricks to help improve patient outcomes and avoid complications with this state-of-the-art device.  The PRECICE is 100% internal and precisely adjusted with a remote control based on the patients individual needs.

**Siemens (IS7)**
Artis Zeego - Zero Malpositions with 3D Imaging, Vision or Reality? Take Imaging in Orthopedic Trauma Surgery to a New Level!
Moderator:  Ina Schwabenland, MD, Siemens Healthcare GmbH, Therapy Systems, Forchheim, Germany
Faculty:  Prof. Florian Gebhard, MD, PhD,  
  Director Orthopedic Traumatology, Hand, Plastic, and Reconstructive Surgery, University Hospital of Ulm, Ulm, Germany  
  David M. Kaehler, MD, Prof. Dept. of Orthopedic Surgery, University of Virginia, Charlottesville, VA, USA
Exciting experiences fresh from the Hybrid OR for 3D imaging empowered alignment with Siemens Artis zeego. Gain a fresh perspective and learn from two pioneers in the field.

**Acelity (IS9)**

CME credits are not available. Absolutely no recording (audio or video) or photography is permitted.
REGISTRATION and ADDITIONAL INFORMATION

Disclaimer
The material presented at the 31st 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

The Manchester Grand Hyatt Hotel San Diego

The Orthopaedic Trauma Association’s 31st Annual Meeting and all pre-meeting and concurrent courses will be held at the Manchester Grand Hyatt Hotel in beautiful, sunny San Diego, California.

About San Diego
San Diego, California’s second largest city, is known for its idyllic climate, 70 miles of pristine beaches and a wide array of attractions. The average temperature for October is 75 degrees with a low of 60 degrees. Popular attractions include the world-famous San Diego Zoo and Wild Animal Park, Sea World San Diego and LEGOLAND California.

In San Diego’s East County, the terrain varies from gentle foothills to mile-high mountains, down to the 600,000-acre Anza Borrego Desert State Park. Along the west, 70 miles of Pacific Ocean coastline supports outdoor recreation such as surfing, boating, sailing and swimming.

San Diego’s arts and culture is booming. Balboa Park, the largest urban cultural park in the U.S., is home to 15 museums, numerous art galleries, beautiful gardens, and the Tony Award-winning The Globe Theatres.

San Diego County also features 92 golf courses, a variety of participatory and spectator sports, gaming, a dynamic downtown district, and annual special events.

To learn more about San Diego, check out these websites:
- San Diego Convention and Visitors Bureau: http://www.sandiego.org/
- The City of San Diego: http://www.sandiego.gov/
- Gaslamp District: www.gaslamp.org
Airline Reservations

NEW IN 2015 – AmTrav is OTA’s preferred travel agency. To welcome OTA travelers to AmTrav, all attendees booking via the OTA personalized travel link, will be entered into a drawing for your choice of: • 2016 Complimentary Dues or • 2016 Complimentary Annual Meeting Registration.

AmTrav’s goal is to make traveling for OTA attendees as easy as possible. No one airline company is preferred. The lowest airline rates on all airlines, including Southwest, are provided to you. You choose and you keep all airline points. AmTrav provides 24/7 in-house support through a team of highly experienced travel agents and a convenient, online OTA specialized booking tool at http://www.amtrav.com/ota.

Service Fees:
1. Website: http://www.AmTrav.com $9 charge for airline booking; no fee for hotel or car online booking.
2. Phone: 800-795-8371 or 312-629-0590 $29 charge to book travel via phone call.
3. EmailTravelerSupport@AmTrav.com Never a charge for email support.

Ground Transportation

To/From San Diego International Airport (SAN)

It is approximately a 10-minute drive from the San Diego International Airport to the Manchester Grand Hyatt. A cab ride from the airport to the hotel costs approximately $10 - $13. There are several companies who provide taxicab service at the airport; imply follow the signs leading to the Transportation Plazas.

Shuttle service is also available from the airport to the hotel. There are a number of shuttle service companies who provide transportation. Shuttles are available at the Transportation Plazas across from Terminals 1 and 2, and curbside at the Commuter Terminal. SuperShuttle offers one-way transportation between the airport and the hotel for $8.

Welcome Reception

Thursday, October 8, 2015 • 6:00 pm - 8:00 pm
Manchester Grand Hyatt Pool Deck

Join your colleagues for cocktails and a generous assortment of hors d’oeuvres while taking in the magnificent views of downtown, San Diego Bay and the Pacific Ocean from the pool deck of the Manchester Grand Hyatt.
REGISTRATION and ADDITIONAL INFORMATION, continued

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)430-5140
- Check made payable to OTA and drawn from a US bank in US dollars. Mail form and check by September 15 to: OTA 9400 W. Higgins Rd, Suite 305, Rosemont, IL 60018, 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; but rather picked up on-site. Attendees will be able to pre-register online until September 30, 2015.
- The pre-registration form may be photocopied as needed.

Cancellations and Refunds

- Submit cancellation in writing to OTA office via fax: (847)430-5140 or E-mail: OTA@ota.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 7th.
- No refunds after October 7, 2015.

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.

Guided Poster Tours and Industry Lunch Symposia

- Ensure your space in Guided Poster Tours and Industry Lunch Symposia - register early.
- Poster and Industry Symposia FILL QUICKLY and may not be available to on-site registrants.
- Choose the Symposia in order of your preference.

On-site Registration

- Registrations received after September 30 will be accepted on-site plus an additional $100 USD late fee.
- On-site Registration available:
  - Tuesday, October 6: 3:00 – 6:00 pm;
  - Wednesday - Saturday, Oct. 7-10: 6:15 am – 5:00 pm

Skills Labs

NEW THIS YEAR!
No pre-registration and no tickets!
No more waiting lists.

All attendees will have an equal opportunity at attending the skills labs.

- Skills Labs will FILL QUICKLY
- Arrive EARLY to insure your space at a lab table
- Door monitors will close lab door when room reaches maximum

NOTE: All Badges will be picked up at the Registration Desk in San Diego.
31st Annual Meeting Check List

☐ Completed the Meeting Registration Form?
☐ Indicated your preferences for Industry Lunch Symposia and Guided Poster Tours (page 59)?
☐ Included your Payment with the Registration Form?
☐ Made your hotel reservation with The Manchester Grand Hyatt Hotel online at www.ota.org?

Secure on-line registration at www.ota.org or Fax Registration Forms with Credit Card payment to (847)430-5140

Mail Registration with USD Check Payment to the OTA staff office:
Orthopaedic Trauma Association
9400 W. Higgins Road, Suite 305
Rosemont, IL 60018 USA

☒ All Badges will be picked up at the Registration Desk in San Diego - none will be mailed.
☒ Pre-registrations will receive confirmation via E-mail. Badges will be printed and picked up in the Express Registration line in San Diego.
☒ Please REMEMBER to bring your meeting registration confirmation.

Registration faxed or post-marked by September 15, 2015.
Register on-line by September 30, 2015

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  
AAOS #  

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

OTA Member
Non-member
Medical Resident Non-member* or Non-member Health Care Personnel*

Postmarked by: September 15, 2015. Fees increased $100 USD on site.

<table>
<thead>
<tr>
<th>Event</th>
<th>OTA Member</th>
<th>Non-member</th>
<th>Medical Resident Non-member* or Non-member Health Care Personnel*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic Science Focus Forum</td>
<td>$250.00 USD</td>
<td>$750.00 USD</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>Orthopaedic Trauma Boot Camp</td>
<td>$250.00 USD</td>
<td>$750.00 USD</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>International Orthopaedic Trauma Care Forum</td>
<td>$75.00 USD</td>
<td>$75.00 USD</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>International Reception (All International Participants Welcome)</td>
<td>FREE</td>
<td>FREE</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>ICD-10 Coding for Trauma Surgeons</td>
<td>$200.00 USD</td>
<td>$200.00 USD</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>Residents Comprehensive Fracture Course 10/7/15 – 10/10/15</td>
<td>$725.00 USD</td>
<td>$725.00 USD</td>
<td>$450.00 USD</td>
</tr>
</tbody>
</table>

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</thead>
<tbody>
<tr>
<td>Young Practitioners Forum</td>
<td>$75.00 USD</td>
<td>$75.00 USD</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>Orthopaedic Trauma for PAs and NPs 10/8/15 – 10/10/15</td>
<td>$275.00 USD</td>
<td>$275.00 USD</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>Welcome Reception</td>
<td>FREE</td>
<td>FREE</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>Guest Reception Ticket(s)</td>
<td>X $65.00 USD</td>
<td>X $65.00 USD</td>
<td>$450.00 USD</td>
</tr>
</tbody>
</table>

*NOTE: Do not register for the Annual Meeting if you are attending the Orthopaedic Trauma for PAs and NPs Course.

FRIDAY, OCTOBER 9

<table>
<thead>
<tr>
<th>Event</th>
<th>OTA Member</th>
<th>Non-member</th>
<th>Medical Resident Non-member* or Non-member Health Care Personnel*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women in Orthopaedic Trauma Luncheon</td>
<td>FREE</td>
<td>FREE</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>New Member Luncheon</td>
<td>FREE</td>
<td>FREE</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>Military Reception</td>
<td>FREE</td>
<td>FREE</td>
<td>$450.00 USD</td>
</tr>
<tr>
<td>PA/NP Reception</td>
<td>FREE</td>
<td>FREE</td>
<td>$450.00 USD</td>
</tr>
</tbody>
</table>

TOTAL $

RESERVED SESSIONS | TICKETS REQUIRED

<table>
<thead>
<tr>
<th>Industry Symposia</th>
<th>1st Choice # (Only check one)</th>
<th>2nd Choice # (Only check one)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday Evening</td>
<td>IS8</td>
<td>IS1 IS2 IS3 IS4 IS5 IS6 IS7 IS9</td>
</tr>
<tr>
<td>Thursday Lunch</td>
<td>IS1 IS2 IS3 IS4 IS5 IS6 IS7 IS9</td>
<td>IS1 IS2 IS3 IS4 IS5 IS6 IS7 IS9</td>
</tr>
</tbody>
</table>

| Poster Tours                  | PT1 PT2                        | PT1 PT2                        |
| Friday Lunch                  | 12:30 pm – 1:15 pm             | 12:30 pm – 1:15 pm             |
| Friday Evening                | 5:48 pm – 6:45 pm              | 5:48 pm – 6:45 pm              |
| Saturday Lunch                | 12:35 pm – 1:20 pm             | 12:35 pm – 1:20 pm             |

| Skills Labs                   | PT5 PT6                        | PT5 PT6                        |
| Friday Morning                | 6:30 am – 7:30 am              | 6:30 am – 7:30 am              |
| Friday Afternoon              | 1:15 pm – 2:15 pm              | 1:15 pm – 2:15 pm              |
| Saturday Morning              | 6:30 am – 7:30 am              | 6:30 am – 7:30 am              |

NEW THIS YEAR! No pre-registration and no tickets! No more waiting lists.
Skills Labs will FILL QUICKLY. Arrive EARLY to ensure your space at a lab table.
Door monitors will close lab door when room reaches maximum capacity.

METHOD OF PAYMENT

<table>
<thead>
<tr>
<th>CARD NUMBER</th>
<th>EXP. DATE</th>
<th>CVV #</th>
</tr>
</thead>
</table>

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 7, 2015.
Checks must be made payable to: Orthopaedic Trauma Association, 9400 W. Higgins Rd, Suite 305, Rosemont, IL 60018, USA

REGISTER ON-SITE AFTER SEPTEMBER 30, 2015 - AN ADDITIONAL $100 USD FEE WILL APPLY.
All company representatives must use Exhibitor Registration Form (email OTA@ota.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
• Multicenter 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 and Practice Management
• Shape Health Policy
• Evaluate Current Practice Management Issues
• Develop Position Statements and Incorporate Thoughtful Solutions
Membership Application Deadline
(Apply Online)
November 1, 2015

2016 OTA Events

January 29 - 30, 2016
Residents Advanced Trauma Techniques Course
Orlando, Florida

February, 2016
AAOS/OTA Trauma Update
Orlando, Florida

March 5, 2016
OTA Specialty Day
Orlando, Florida

April 13 - 16, 2016
OTA Spring Residents Comprehensive Fracture Course
Chicagoland, Illinois

April, 2016
OTA Fellows Course
Boston, Massachusetts

October 5 - 8, 2016
OTA Annual Meeting
Annual Meeting Abstract Deadline: February 1, 2016

Webinars
Please visit the OTA website for exact dates:

(September) Pilon Fractures: Strategies to Optimize Outcomes
Moderator: David P Barei, MD

(November) A Patient's Guide to Atypical (Bisphosphonate Related) Femur Fractures: Who's at Risk, How and When to Treat, and Recovery
Moderator: William M Ricci, MD
Pre-registration Deadlines:
Registration faxed or post-marked by September 15, 2015.
Register on-line by September 30, 2015
Hotel Deadlines: September 30, 2015

CME Credits
23.5 AMA PRA Category 1 Credits™ for attending the Annual Meeting.
Additional credits are also available if you attend premeeting events:

Basic Science Focus Forum (11.5 AMA PRA Category 1 Credits™)
ICD-10 Coding for Trauma Surgeons (6 AMA PRA Category 1 Credits™)
International Trauma Care Forum (8.75 AMA PRA Category 1 Credits™)
Orthopaedic Trauma Boot Camp (12.75 AMA PRA Category 1 Credits™)
Young Practitioners Forum (4 AMA PRA Category 1 Credits™)
PA/NP Course (19.5 AAPA Category 1 CME Credits™)

Register Today at www.ota.org