AOA Own the Bone
International Orthopaedic Trauma Care Forum
William G. DeLong, Jr., MD, Andrew H. Schmidt, MD
and Wade R. Smith, MD, Co-Chairs
8 AMA PRA Category I Credits™

Masters Level Trauma Coding Course
William R. Creevy, MD, MBA, Chair
Margaret Maley, Karen Zupko & Associates, Inc.
6.5 AMA PRA Category I Credits™

Basic Science Focus Forum
Theodore Miclau, III, MD, Chair
10.25 AMA PRA Category I Credits™

Young Practitioners Forum
Lisa K. Cannada, MD, Chair
4.5 AMA PRA Category I Credits™

Andrew N. Pollak, MD, President
Animesh Agarwal, MD, Local Host
James A. Goulet, MD, Program Chair
Thomas F. Higgins, MD, Program Co-Chair
Target Audience
The Orthopaedic Trauma Association (OTA) Annual Meeting is for the benefit of orthopaedic trauma surgeons and related allied health care professionals.

Objectives
The OTA is an organization dedicated to the discovery and dissemination of knowledge and information regarding the prevention, diagnosis, and treatment of musculoskeletal injuries.

The 27th OTA Annual Meeting will provide all registrants the opportunity to witness presentations of peer-reviewed original basic science and clinical research papers, posters and symposia that present current concepts for topics of general interest. A multitude of mini-symposia, bio-skills labs, informal case presentations, and technical exhibits, each with specific focus, will enable a customized educational experience.

Ample opportunity will be available for expression of common concerns, sharing of relevant experiences and discussion of alternative treatment approaches.

After attending the Annual Meeting of the OTA, participants will be able to:
• Discuss the most up-to-date clinical and basic science advancements related to orthopaedic trauma
• Improve technical abilities to treat both simple and complex fractures
• Appreciate the changing priorities, and the emergence of problems and new solutions associated with geriatric and osteoporotic fractures
• Become familiar with the latest strategies for managing a sustainable orthopaedic trauma practice in a challenging and changing environment.
• Understand a data-driven approach to the risks, challenges and solutions associated with pain management in orthopaedic trauma

2011 Annual Meeting Program Committee
James A. Goulet, MD - Program Chair
Theodore Miclau, III, MD - Basic Science Chair

Committee: Victor A. de Ridder, MD, PhD, MBA; Michael J. Gardner, MD; Pierre Guy, MD, MBA; Shepard R. Hurwitz, MD; Robert V. O’Toole, MD and John T. Ruth, MD

Local Host: Animesh Agarwal, MD

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Dear Colleagues:

Please accept our invitation to the 27th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in San Antonio, Texas from October 12 – 15, 2011. The meeting will provide the most comprehensive and up-to-date program related to the treatment of musculoskeletal injury available anywhere. A diverse spectrum of topics and the opportunity to attend a wide range of sessions including scientific presentations of original research, didactic lectures, small group discussions, and hands-on labs provide learning opportunities that meet the needs of all musculoskeletal health care professionals.

This year’s meeting will highlight main symposia on topics with broad appeal including: “Geriatric Fractures: Role of the Traumatologist”, “Pain Management in Trauma: Risk to Patients, Burden on Surgeons, Opportunity for Improvement?” as well as “Managing an Orthopaedic Trauma Practice: Strategies for Turbulent Times”. Break-out sessions in the form of mini-symposia, case presentations, and skills labs that include other general interest as well as more focused topics will allow customization of the meeting experience.

The Scientific Program will include the most relevant and scientifically sound research. Over ninety podium presentations and 110 posters were selected by the Program Committee from over 700 abstract submissions. Four pre-meeting events will precede the traditional Annual Meeting, beginning with the Basic Science Focus Forum (BSFF), chaired by Ted Miclau, MD. The BSFF is a 1 1⁄2 day event beginning Wednesday October 12th that will provide an additional in-depth program designed to augment and expand upon the science presented and discussed at the main meeting.

Three additional, single day pre-meeting events will take place on Wednesday, October 13th. The perennially popular Masters Level Coding Course will once again be organized by Bill Creevy and Karen Zupko & Associates, Inc. The highly successful International Forum, started two years ago, will continue under the direction of Bill DeLong, MD, Andrew Schmidt, MD, and Wade Smith, MD and will review advances and unique aspects of orthopaedic care in emerging regions. In addition, a new evening session jointly sponsored by the American Orthopaedic Association’s “Own the Bone” initiative and the Orthopaedic Trauma Association, will provide a step-by-step workshop for practices and research associates seeking to set up a sustainable center for treatment of fragility fractures.

The half-day Young Practitioners Forum led by Lisa Cannada, MD on Thursday morning rounds out the pre-meeting events. We encourage all to arrive early to the Annual Meeting and take full advantage of these OTA offerings.

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

Sincerely,

James A. Goulet, MD, Program Chair
Dear Colleagues – Howdy from the Lone Star State!

We welcome ya’ll to San Antonio, Texas, home of the Alamo, San Antonio Spurs, Tex-Mex food and the famed River Walk. We are extremely excited and honored to have been selected as the host city for the 27th Annual Meeting of the Orthopaedic Trauma Association. The Marriott Rivercenter Hotel in downtown San Antonio will be the site of the general session and exhibits, which starts Thursday afternoon, with the Wednesday pre-meeting events and breakout sessions being held across the street at the sister Marriott Riverwalk Hotel. The Henry B. Gonzalez Convention Center, which is also located across the street from the Marriott Riverwalk, will house the OTA Residents Course. All meeting venues are located right on the River Walk, which is well known for its terrific restaurants and nightlife. The reception will be held nearby at La Villita or “the little village,” a historic arts village located along a slow bend in the San Antonio River Walk, originally established by Spanish soldiers stationed at the Alamo. In the old quarters you will find cafes, galleries and boutiques that capture the spirit of San Antonio.

San Antonio is a family vacation destination with Sea World, Fiesta Texas, the Alamo, San Antonio Zoo and numerous outstanding golf courses. It is also home to the largest concentration of Spanish colonial architecture in North America. We hope that you find the time to spend an extra day or two, before or after the meeting, to enjoy some of these activities.

San Antonio is well known for its military bases, margaritas and missions. The most famous mission, the Alamo, celebrated the 175th Anniversary of the Battle of the Alamo this year. It is a must see and located within walking distance of the hotel. If you’re a history buff, stop by the bar at the Menger hotel adjacent to the Alamo, which is where President Teddy Roosevelt recruited his Rough Riders in 1898.

Four other missions, Missions San José, Concepción, San Juan and Espada, sit on the banks of the San Antonio River as it winds south from downtown San Antonio. They were built in the 1700’s and are full of centuries-old artworks, original frescos, angels carved from limestone and haunting bell towers. By 2013, San Antonio plans on connecting all five of the city’s missions via the River Walk.

Two other landmarks, not to be missed, the San Fernando Cathedral, and the Spanish Governor’s Palace are both downtown. The Cathedral houses remains that are said to be that of the Alamo defenders. Established in 1731 and originally considered the official heart of the city, it stands as the oldest cathedral sanctuary in the United States. The Spanish Governor’s Palace is the “most beautiful building in San Antonio” according to the National Geographic Society. It is a national historic landmark and once housed the officials of the Spanish Province of Texas.

We have been fortunate to have three Level I trauma centers, University Hospital, Brooke Army Medical Center (BAMC) and Wilford Hall Medical Center (WHMC) up until this past year. University Hospital, the only civilian Level I trauma center, is undergoing a major facelift with the construction of a new trauma tower to keep up with the growth in San Antonio. With the merger of BAMC and WHMC, the San Antonio Medical Military Complex was created. It is destined to be the regional flagship medical center for both armed services. It is based at BAMC and will be the premier medical provider for the military and currently provides a vast amount of medical care for injured soldiers returning from the war. Its recently established Center for the Intrepid is a state of the art center for the rehabilitation of wounded soldiers.

The weather in October is generally pleasant. It averages anywhere from a low of 59°F to high of 82°F. It can, however, be unpredictable.

We look forward to welcoming you and are grateful to the OTA for selecting San Antonio for their annual meeting. We hope you enjoy your time here in Texas. You might even pick up a pair of boots and a cowboy hat!

Best wishes for a safe trip,

Animesh Agarwal, MD and Jennifer Agarwal
Local Host, San Antonio, Texas
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2011 OTA Pre-Meeting Course
Basic Science Focus Forum

The Basic Science Focus Forum is co-branded by the OTA and ORS.

Wednesday – Thursday, October 12 – 13, 2011

Target Audience
Attendees of the 27th Annual Meeting of the Orthopaedic Trauma Association, orthopaedic trauma surgeons, fellows and residents, basic scientists, bioengineers and biologists.

Forum Objectives
- Develop a greater understanding of biomechanics models and how to choose the most appropriate model.
- Gain knowledge about heterotopic ossification and its sequelae.
- Learn the latest technology to diagnose and treat compartment syndrome.
- Review advances in biomaterials and surface technologies.
- Understand the mechanisms behind various physiological challenges to bone repair.

Program
Wednesday, October 12, 2011

6:30 am Registration and Continental Breakfast
(Marriott Riverwalk, Alamo Ballroom Foyer) 9:06 am
7:25 am Introduction: Theodore Miclau, III, MD, Program Chair
8:50 am – SYMPOSIUM 1:
BIOMECHANICS: CHOOSING THE RIGHT MODEL
Moderators: Steven A. Olson, MD
Louis E. DeFrate, PhD
7:30 am Selecting the Right Specimens:
Do Materials Matter?
J. Lawrence Marsh, MD
7:45 am Sample Size: How Many is Enough?
Louis E. DeFrate, PhD
8:00 am Dynamic versus Static Testing:
What is the Best?
Loren L. Latta, PhD
8:15 am Avoiding Common Pitfalls in Study Design
Steven A. Olson, MD
8:30 am Discussion
8:50 am – PAPER SESSION 1:
BIOMECHANICS
Moderators: Steven A. Olson, MD
Louis E. DeFrate, PhD
9:00 am Paper #1
8:50 am Overview:
Steven A. Olson, MD
Filling Empty Screw Holes Does not Improve the Fatigue Life of the Fixation Construct in Comminuted Supracondylar Femoral Fractures
Reza Firoozabadi, MD; Erik McDonald, BS;
Thuc-Quyen Nguyen, BS;
Jenni M. Buckley, PhD; Utku Kandemir, MD;
Department of Orthopaedic Surgery,
University of California San Francisco,
San Francisco, California, USA

4 Biomechanical Comparison of a Long Retrograde Intramedullary Supracondylar Femoral Nail versus a Lateral Locked Plate in a Cadaveric Femur Fracture Model
Matthew R. Craig, MD, MS1;
Andrew L. Freeman, MSE2;
Derek Goerke, BS3; Paul Lafferty, MD4;
Robert A. Morgan, MD5;
Richard F. Kyle, MD5;
1Temple University, Dept. of Orthopaedics,
Philadelphia, Pennsylvania, USA;
2Excel, Minneapolis, Minnesota, USA;
3Cooper University Hospital, Camden,
New Jersey, USA;
4Regions Hospital, St. Paul, Minnesota, USA;
5Hennepin County Medical Center,
Minneapolis, Minnesota, USA

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
9:12 am  Use of Acute Shortening versus Bridging Plate for Highly Comminuted Unreconstructable Olecranon Fractures  
Akira Yamamoto, MD; Meir Marmon, MD; David Friedberg, MD; Erik McDonald, BS; Kayla Calvert, PhD; Eric Meineberg, MD; University of California, San Francisco, California, USA

9:18 am  The Effects of Locked and Unlocked Neutralization Plates on Load Bearing of Fractures Fixed With a Lag Screw  
Richelle C. Takemoto, MD; Michelle T. Sugi, MD; Fredrick J. Kummer, PhD; Kenneth J. Koval, MD; Kenneth A. Egol, MD; NYU Hospital for Joint Diseases, New York, New York, USA

9:32 am  The Effect of Cannulated Lag Screw Placement and Tension Band Wiring on Patellar Fracture Fixation  
Eric Henderson, MD¹; Brandon Santoni, PhD²; Aniruddh Nayak, MS³; Andres Cabezas, BS; Richard Cain, MD⁴; Riley Hale, MD⁴; H. Claude Sagi, MD⁴  
¹Dept. of Orthopaedic Surgery, University of South Florida, Tampa, Florida, USA; ²Phillip Spiegel Orthopaedic Research Laboratory, Foundation for Orthopaedic Research and Education, Tampa, Florida, USA

9:38 am  Is Dynamic Locking the Answer in Some Complex Proximal Femoral Fractures?  
Ben Ollivere MD; Markus Baker; Donell Simon MD; Chirodian Nish; James Wimhurst; Norfolk & Norwich University Hospital NHS Trust, Norwich, United Kingdom

9:44 am  A Biomechanical Comparison of Intramedullary and Volar Plate Fixation of Distal Radius Fractures  
R.J. van Kampen, MD¹; A.R. Thoreson, MS²; N.J. Knutson, MS³; J.E. Hale, PhD³; S.L. Moran, MD³; ¹Dept. of Plastic Surgery, Mayo Clinic, Rochester, Minnesota, USA; ²Orthopedic Biomechanics Laboratory, Dept. of Orthopedic Surgery, Mayo Clinic, Rochester, Minnesota, USA; ³Conventus Orthopaedics Inc., Maple Grove, Minnesota, USA

9:50 am  Comparison of Two Techniques for Proximal Fixation of Periprosthetic Fractures  
Mark Lenz, MD¹; Markus Windolf; Stefan Rothstock; Thomas Mückley, PhD²; Gunther O. Hofmann, PhD²; Robert Geoff Richards, PhD²; Karsten Schwieger, PhD²; Boyko Gueorguiev, PhD²  
¹AO Research Institute Davos, Davos, Switzerland; ²Clinic for Trauma, Hand and Reconstructive Surgery, Friedrich Schiller University, Jena, Germany

10:20 am – 11:30 am  SYMPOSIUM 2: HETEROTOPIC OSSIFICATION  
Moderators: Emil H. Schemitsch, MD Michael J. Bosse, MD

10:20 am  The Pathophysiology of Heterotopic Ossification  
Leon J. Nesti, MD

10:30 am  Heterotopic Ossification Prophylaxis in Orthopaedic Trauma Patients  
Aaron Nauth, MD

10:40 am  Treating Heterotopic Ossification in Fracture Patients  
Jeffrey O. Anglen, MD

10:50 am  Blast Injuries and Heterotopic Ossification  
Benjamin Potter, MD

11:00 am  CNS Injury and Heterotopic Ossification  
Mary Ann Keenan, MD

11:10 am  Discussion

11:30 am – 12:12 pm  PAPER SESSION 2: HETEROTOPIC OSSIFICATION  
Moderators: Emil H. Schemitsch, MD Michael J. Bosse, MD

11:30 am  Overview: Emil H. Schemitsch, MD

11:40 am  VEGF mRNA Expression in EPC Local Therapy for a Rat Segmental Bone Defect  
Ru Li, MD, PhD; Erion Qamirani, MD, PhD; Aaron Nauth, MD; Kivanc Atesok, MD; Emil H. Schemitsch MD, FRCS(C); Musculoskeletal Research Lab, Division of Orthopaedics, Dept. of Surgery, St. Michael’s Hospital, University of Toronto, Toronto, Ontario, Canada

Basic Science Forum Program, cont’d

11:46 am
BMP Regulation of Mesenchymal Progenitor Cells in Regenerating Muscle Tissue
Matthew W. Kluk, MD; Youngmi Ji, PhD; Orna Amrani, MD; Wesley M. Jackson, PhD; Leon J. Nesti, MD; 1Dept. of Orthopaedics and Rehabilitation, Walter Reed Army Medical Center, Washington, District of Columbia, USA; 2Clinical and Experimental Orthopaedics Laboratory, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, Maryland, USA

11:52 am
Gene Expression and Regulation in the Formation of Heterotopic Ossification
Jared Vogler, DO; Amber B. Aragon, MD; Matthew W. Kluk, MD; Youngmi Ji, PhD; Wesley M. Jackson, PhD; Leon J. Nesti, MD; 1Dept. of Orthopaedics and Rehabilitation, Walter Reed Army Medical Center, Washington, District of Columbia, USA; 2Clinical and Experimental Orthopaedics Laboratory, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, Maryland, USA

11:58 am
The Effect of Reaming of Long Bone Fractures on Translocation of Mesenchymal Stem Cells
Tarek A.A.R.R. Roshdy, MD; Peter V. Giannoudis, MD; Elena Jones, PhD; Dennis McGonagle, PhD; Section of Musculoskeletal Disease, LIMM, The University of Leeds, Leeds, United Kingdom

12:04 pm
Discussion

12:12 pm – 1:15 pm
Lunch

1:15 pm – 2:00 pm
SYMPOSIUM 3:
COMPARTMENT SYNDROME: NEW TECHNOLOGIES
Moderators: Edward J. Harvey, MD; Gregory K. Berry, MD
1:15 pm
Non-Operative Management of Compartment Syndrome
David W. Sanders, MD
1:25 pm
Non-Invasive Compartment Monitoring
Gregory K. Berry, MD
1:35 pm
Invasive Compartment Monitoring
Andrew H. Schmidt, MD
1:45 pm
Compartment Syndrome: Emerging Concepts and Technologies
Edward J. Harvey, MD
Discussion

1:55 pm – 3:07 pm
PAPER SESSION 3:
SOFT-TISSUE TREATMENT
Moderators: Edward J. Harvey, MD; Gregory K. Berry, MD
1:55 pm
Overview:
Edward J. Harvey, MD
2:20 pm
Comparison of Chlorhexidine and Saline for Irrigating a Contaminated Open Fracture Model
Jowan G. Penn-Barwell, MRCS; Clinton K. Murray, MD; Joseph C. Wenke, PhD; 1US Army Institute of Surgical Research, Fort Sam Houston, San Antonio, Texas, USA; 2Academic Department of Military Surgery and Trauma, Royal Centre for Defense Medicine, Birmingham, United Kingdom
2:41 pm
The Efficacy of Antimicrobial Wound Dressings Used in the Management of Military Complex
Will G.P. Eardley; Kevin R. Martin; Emrys Kirkmann, PhD; Jon C. Clasper, MD; Sarah A. Watts, PhD; 1Dept. of Biomedical Sciences, Defence Science and Technology Laboratory, Salisbury, Wiltshire, United Kingdom; 2Academic Department of Military Surgery and Trauma, Royal Centre for Defence Medicine, Edgbaston, Birmingham, United Kingdom
See pages 36 – 37 for information about Skills Labs.
Basic Science Forum Program, cont'd

2:47 pm  Retinoid Signaling by a Selective Retinoid Acid Receptor Agonist Hinders Angiogenesis, Formation of Granulation Tissue and Wound Closure in Cutaneous Models of Wound Healing
Steven Grijalva, MD1,2,3; Khairul Anam, PhD1; Yelena Lazdun, BS1; Mihret Amare, BS1; Jonathan A. Forsberg, MD2,3; Benjamin K. Potter, MD2,3,4; Eric A. Elster, MD1,4; Thomas A. Davis, PhD1,4;
1Regenerative Medicine Department, Naval Medical Research Center, Silver Spring, Maryland, USA; 2Dept. of Orthopedic Surgery, Walter Reed Army Medical Center, Washington, District of Columbia, USA; 3Dept. of Orthopedic Surgery, National Naval Medical Center, Bethesda, Maryland, USA; 4Dept. of Surgery, Uniformed Services University of the Health Sciences, Bethesda, Maryland, USA

2:53 pm  Gentamicin for Open Fractures in Trauma Patients: Is it Safe?
David Zamorano, MD; Jason H. Lee, MD; Michael L. Nguyen, MD; Matthew Griffin, BS; University of California Irvine Medical Center, Orange, California, USA

2:59 pm  Discussion

3:07 pm  Break

3:25 pm – SYMPOSIUM 4: ADVANCES IN BIOMATERIALS AND SURFACE TECHNOLOGIES
4:35 pm  Moderators: Theodore Miclau, III, MD; R. Geoff Richards, PhD

3:25 pm  Advances in Implant Surface Technologies
David Grainger, PhD

3:40 pm  Manipulating Osseointegration Through Material Surface Modification
R. Geoff Richard, PhD

3:55 pm  Current Strategies in Anti-Infective Surfaces
Fintan Moriarty, PhD

4:05 pm  New Trauma Implant Technologies: Will Coatings Make a Difference
R. Trigg McClellan, MD

4:15 pm  Discussion

4:35 pm –  PAPER SESSION 4: BIOMATERIALS AND SURFACE TECHNOLOGIES
5:17 pm  Moderators: Theodore Miclau, III, MD; R. Geoff Richards, PhD

4:35 pm  Overview: R. Geoff Richards, PhD

4:45 pm  Bone-Implant Interface Strength and Peri-Implant Bone Response to a Biodegradable Magnesium Alloy Implant and a Self-Reinforced PLGA Copolymer Control - Findings in a Transcortical Rat Model
Richard A. Lindtner, MD1; Christoph Castellani, MD2; Peter Hausbrandt, MD2; Elmar K. Tschegg, PhD3; Stefanie E. Stanzl-Tschegg, PhD4; Annemie-Martina Weinberg, PhD2; 1Dept. of Trauma Surgery, Medical University Innsbruck, Innsbruck, Austria; 2Dept. of Pediatric and Adolescent Surgery, Medical University of Graz, Graz, Austria; 3Institute for Building Construction and Technology, Vienna University of Technology, Vienna, Austria; 4Institute of Physics and Materials Science, University of Natural Resources and Life Sciences, Vienna, Austria

4:51 pm  Novel Antimicrobial Surface for Fracture Fixation Devices with Long-Term Stability
Christopher R. Loose, PhD; Karen A. Schulz, PhD; Hao Wang, PhD; Koby J. Elias, BS; Semprus BioSciences, Cambridge, Massachusetts, USA

Basic Science Forum Program, cont'd

4:57 pm   Decreasing Complications in External Fixation Pins Via Time-released Nitric Oxide Coatings
           William W. Kesler, AB; Ken J. Addison\(^1\);
           Adriel M. Watts, BS\(^1\); Paul S. Weinhold, PhD\(^2\);
           Joshua B. Holt, BS\(^1\); Wesley L. Storm, BS\(^3\);
           Mark H. Schoenfisch, PhD\(^3\);
           Laurence E. Dabners, MD\(^1\);
           University of North Carolina School of Medicine, Chapel Hill, North Carolina, USA;
           \(^1\)Dept. of Orthopaedic Surgery,
           University of North Carolina,
           Chapel Hill, North Carolina, USA;
           \(^2\)Dept. of Orthopaedic Surgery,
           University of North Carolina,
           Chapel Hill, North Carolina, USA;
           \(^3\)Dept. of Chemistry, University of North Carolina,
           Chapel Hill, North Carolina, USA

5:03 pm   Testing for Contrasting Infection Rates and Biofilm Formation Among Biomaterials in an In Vitro
           Brian Stover, BS\(^1\); Zalman Vaksman, MS\(^1\);
           Heidi B. Kaplan, PhD\(^1\);
           Catherine G. Ambrose, PhD\(^1\);
           Milan Sen, MD\(^2\)
           \(^1\)Dept. of Microbiology and Molecular Genetics,
           UT Health, Houston, Texas, USA
           \(^2\)Department of Orthopaedic Surgery,
           UT Health, Houston, Texas, USA

5:09 pm   Discussion

5:17 pm   Adjourn

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Charreada Mexican Rodeo
Photo courtesy of the San Antonio Convention & Visitor's Bureau / Al Rendon

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Program
Thursday, October 13, 2011

6:30 am   Continental Breakfast
           (Marriott Riverwalk, Alamo Ballroom Foyer)

7:25 am   Introduction:
           Theodore Miclau, III, MD, Program Chair

7:30 am – SYMPOSIUM 5:
8:40 am   PHYSIOLOGICAL CHALLENGES TO BONE REPAIR
           Moderators: Joseph Borrelli, Jr., MD
           Hans-Christoph Pape, MD

           7:30 am   Hypovitaminosis
           Joseph M. Lane, MD

           7:40 am   Chronic Inflammation
           David J. Hak, MD, MBA

           7:50 am   Diabetes
           Sheldon S. Lin, MD

           8:00 am   Aging
           Peter V. Giannoudis, MD

           8:10 am   Polytrauma
           Joseph R. Hsu, MD

           8:20 am   Discussion

8:40 am – PAPER SESSION 5:
9:22 am   PHYSIOLOGICAL CHALLENGES TO HEALING
           Moderators: Joseph Borrelli, Jr., MD
           Hans-Christoph Pape, MD

           8:40 am   Overview: Joseph Borrelli, Jr., MD

           8:50 am   Mesenchymal Stem Cells (MSCs)
           Facilitate Fracture Repair in an Alcohol-Induced Impaired Healing Model
           Thomas S. Obermeyer, MD\(^1\); Kristen Lauer\(^1\); Stuart R. Stock, PhD\(^3\);
           David Yonick, MD\(^4\); Michael D. Stover, MD\(^1\); John J. Callaci, PhD\(^1\);
           Loyola University, Maywood, Illinois, USA;
           \(^3\)Northwestern University, Chicago, Illinois, USA

           8:56 am   Recombinant Human Parathyroid Hormone (PTH 1-34) Enhances Healing in a Mouse Fracture
           Edward A. Lin, MD; Chuanju Liu, PhD; Kenneth A. Egol, MD;
           New York University School of Medicine, New York, New York, USA

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
Basic Science Forum Program, cont’d

9:02 am  The Effect of Transdermal Nicotine on Fracture Healing in a Rabbit Model
Jonathan A. Donigan, MD; Douglas Fredericks BS; Joseph D. Smucker, MD; James V. Nepola, MD; University of Iowa Hospitals and Clinics, Iowa City, Iowa, USA

9:08 am  Incidence of Aseptic Femoral- and Tibial Shaft Non-unions: Is There a Genetic Predisposition?
Frank Hildebrand, MD; Christian Zeckey, MD; Michael Frink, MD; Philipp Mommsen, MD; Christian Krettek, MD; Trauma Dept., Hannover Medical School, Hannover, Germany

9:14 am  Discussion

9:22 am  Break

9:40 am – 10:50 am  SYMPOSIUM 6: META-ANALYSIS IN ORTHOPAEDICS: STATISTICAL TRICKERY OR NOT?
Moderators: Mohit Bhandari, MD, PhD Saam Morshed, MD, PhD

9:40 am  What is a Meta-Analysis
Saam Morshed, MD, PhD

9:50 am  Meta-Analyses: Should they Guide Practice?
Peter V. Giannoudis, MD

10:00 am  Meta-Analyses are Dangerous—Be Forewarned!
Brent Graham, MD

10:10 am  Case Study: Total Hip Arthroplasty versus Hemi-Arthroplasty for Femoral Neck Fractures: A Critique of a Meta-Analysis
Dirk Stengel, PhD

10:20 am  If Not, Meta-Analyses, then What Do We Need?
Brad A. Petrisor, MD

10:30 am  Discussion

10:50 am  Adjourn

2011 OTA Industry Symposia
Henry B. Gonzalez Convention Center
Thursday, October 13, 2011

11:15 AM - 12:30 PM

Industry Session Sponsors
See our corporate sponsors’ new products and/or surgical equipment demonstrations in between the Basic Science Focus Forum and the start of the Annual Meeting.
(Lunch included.)

BioMimetic Therapeutics, Inc. (#IS-1)

Intelligent Orthopaedics Limited (#IS-2)
“Plateau, shaft or pilon - a novel approach to reducing unstable fractures.”

Sonoma Orthopaedics (#IS-3)
“Innovative rotator cuff sparring, flexible nail for midshaft Humeral shaft fractures.”

Zimmer, Inc. (#IS-4)

RTI Biologics, Inc. (#IS-5)
“Biologic Options for your Trauma Practice-Fracture Management and Joint Resurfacing.”

1:00 pm  ANNUAL MEETING BEGINS
(Marriott Rivercenter, Grand Ballroom, Level 3)
Welcome – Andrew N. Pollak, MD, OTA President

Margaret Maley brings over 25 years of experience in orthopaedics having held positions of increasing responsibility in both the clinical and business side of academic and private practices.

With a B.S.N. from The University of Illinois, Ms. Maley began her nursing career in Chicago at Rush-Presbyterian St. Luke’s Medical Center. For five years she worked with Dr. Jorge Galante conducting clinical research, overseeing several FDA studies, and she earned her masters degree with a concentration in orthopaedic nursing from Rush University.

For over 15 years, Ms. Maley has concentrated on the business aspects of orthopaedics. With nine years of management experience she has a unique insight into the nuts and bolts of orthopaedic practice management. Her background on the “front line” makes her acutely aware of the importance of correct coding and accurate documentation for maximizing reimbursement. She is recognized by her peers for being able to solve difficult orthopaedic coding and reimbursement problems using strong clinical and business skills.

Known for her ability to relate to orthopaedic surgeons using “their language,” she is able to convince most administrators of the value of surgeon participation in the reimbursement process. This unique skill makes her an asset to staff and administrators alike.

Margaret has extensive experience speaking regularly to private and academic orthopaedic departments, state orthopaedic societies, and as a featured speaker for national organizations like AAOE, the Musculoskeletal Tumor Society, The American Association of Hip and Knee Surgeons, the Western Orthopaedic Association, Gait and Clinical Movement Analysis Society, and Pediatric Orthopaedic Society of North America.
2011 OTA Pre-Meeting Course

International Orthopaedic Trauma Care Forum

William G. DeLong, Jr., MD, Andrew H. Schmidt, MD, Wade R. Smith, MD, Co-Chairs

Attendees of this activity can earn up to 8 AMA PRA Category I Credits™.

Marriott Rivercenter Hotel, Grand Ballroom, Level 3

Wednesday, October 12, 2011

Target Audience
Attendees of the 27th Annual Meeting of the Orthopaedic Trauma Association, orthopaedic trauma surgeons, fellows and residents, basic scientists, bioengineers and biologists.

Forum Objectives
1) Learn about the varied methods of treating fracture and trauma complications from around the world;
2) Become familiar with unique approaches to lower extremity injuries treated in areas of the world that have limited resources.

Mission Statement
The mission of the International Relations Committee of the OTA is to assist in the global delivery of a high standard of trauma care by participating with our colleagues around the world in a collaborative effort to: develop an extensive network of orthopaedic traumatologists, provide international educational opportunities, and to increase access and opportunity to join the OTA and participate in its meetings and educational offerings.

International Relations Committee
William G. DeLong, Jr. MD, Chair
Jeffrey O. Anglen, MD
Peter V. Giannoudis, MD
Max Morandi, MD
Steven J. Morgan, MD
Saqib Rehman, MD
Andrew H. Schmidt, MD
Wade R. Smith, MD
David C. Templeman, MD
Lewis G. Zirkle, Jr., MD

International Membership Committee
Peter V. Giannoudis, MD, Chair (United Kingdom)
Ney Amaral, MD (Brazil)
Guenter C. Lob, MD (Germany)
Akira Oizumi, MD (Japan)
Hans-Christoph Pape, MD (Germany)
Thomas (Toney) A. Russell, MD (China Focus)

Program Wednesday, October 12, 2011

7:00 am Registration & Continental Breakfast
7:45 am Introduction
William G. DeLong, Jr., MD, OTA International Committee Chair
7:55 am – 8:25 am SYMPOSIUM 1
ROUNDTABLE DISCUSSION OF INTRA-ARTICULAR FRACTURE CASES FROM AROUND THE WORLD
Moderator: Jeffrey O. Anglen, MD
Participants: Andrew H. Schmidt, MD, Wade R. Smith, MD, J. Tracy Watson, MD, Manyi Wang, MD (China), Harpel Selbi, MD (India), Mohammed Ismail Wardak, MD (Afghanistan)

7:55 am Case #1: Distal Femur Fracture
8:05 am Case #2: Tibial Plateau Fracture
8:15 am Case #3: Pilon Fracture
8:25 am Case #4: Distal Humerus Fracture

8:35 am – 10:19 am PAPER SESSION 1:
General Topic, Upper Extremity, Femur
Moderators: Steven J. Morgan, MD
Saqib Rehman, MD
8:35 am Orthopedic Injury Analysis in the 2010 Yushu, China Earthquake
Ting Li, MD; Xieyuan Jiang, MD; Xiaobo Zhang, MD; Manyi Wang, MD; 
Dept. of Orthopaedics and Traumatology, Beijing Jishuitan Hospital, Peking Univ. 4th Hospital, Beijing, China;
Dept. of Surgery, People’s Hospital of Qinghai Province, Qinghai, China

Names in Bold = Presenter

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:43 am</td>
<td>Surgical Treatment of Fresh Complete Acromioclavicular Dislocation by Coracoid Process Transfer and Fixation with the Clavicular Hooked Plate</td>
<td>Yeming Wang; Jianguo Zhang; Xinlong Ma; Dept. of Orthopedics, Tianjin Hospital, Tianjin, China</td>
</tr>
<tr>
<td>8:53 am</td>
<td>The Effect of Surgical Timing on the Perioperative Complications and Functional Outcome of Supracondylar Humeral Fractures in Children</td>
<td>Dr. Dipak Maharjan, MBBS, D Ortho, MS Ortho; Subin Byanjankar, MD; United Mission Hospital Tansen, Palpa, Nepal</td>
</tr>
<tr>
<td>9:01 am</td>
<td>New Apparatus for the Closed Reduction of Distal Radius Fractures</td>
<td>Mohammed Ismail Wardak, MD, MS; Afghan National Military Hospital, Kabul, Afghanistan</td>
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<tr>
<td>9:09 am</td>
<td>Discussion</td>
<td></td>
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<tr>
<td>9:32 am</td>
<td>Optimal Dosage of Intrathecal Morphine for Open Reduction Internal Fixation Intramedullary Nailing for Femoral Shaft Fractures: A Dose Finding Study</td>
<td>Geraldine Jaca-Corporal, MD; Felipe Villarosa Jr., MD, DPBA; Southern Philippines Medical Center, Davao Oriental Provincial Hospital</td>
</tr>
<tr>
<td>9:40 am</td>
<td>Closed or Minimal Exposure Nailing of Femur Shaft Fractures Using the SIGN Nail Technique in Rural Kenya</td>
<td>Otieno T. Ondiek, MD; Mbogua F. Kimani, MD; Ndasi H. Tanyi, MD; Tewodros Tilahun, MD; Mefin Etsuh, MD; Ndeleva B. Mukulu, MD; Nguku Levis, MD; Muchiri A. Maina; AIC-Kijabe Mission Hospital, Nairobi, Kenya</td>
</tr>
<tr>
<td>9:48 am</td>
<td>Treating Open Fractures of Femur with SIGN-Nail</td>
<td>Shahab-ud-Din, Prof; Faseeh Shahab; Lady Reading Hospital, Peshawar, Pakistan</td>
</tr>
<tr>
<td>9:56 am</td>
<td>Radiologic Assessment of the Medial MIPPO Technique in Distal Femur with CT Angiography</td>
<td>Jung Jae Kim, MD; Ji Wan Kim, MD; Hyoung Keun Oh, MD; Hui Seong Yu, MD; Joo-Yul Bae, MD; Ji Ho Choi, MD; 1University of Ulhan, Seoul, South Korea; 2Inje University, Busan, South Korea; 3Inje University, Ilsan, South Korea</td>
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<tr>
<td>10:04 am</td>
<td>Discussion</td>
<td></td>
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<tr>
<td>10:19 am</td>
<td>MRI in Spinal Trauma – A Predictor of Neurological Recovery</td>
<td>Rajeshwar Nath Srivastava; KG Medical College, CSM Medical University, Lucknow, India</td>
</tr>
<tr>
<td>10:47 am</td>
<td>Motor Segmental Recovery In Spinal Cord Injury - A Blessing In Disguise!</td>
<td>Rajeshwar Nath Srivastava; KG Medical College, CSM Medical University, Lucknow-India</td>
</tr>
<tr>
<td>11:05 am</td>
<td>Soft Tissue Complications in Distal Tibial Fractures Managed with Medial Locking Plates: A Myth or Reality</td>
<td>Selhi Harpal S, MD; Jain Deepak, MD; Mahindra Pankaj, MD; Yamin M, MD; Aggarwal Raghu, MD; Dept. of Orthopaedic Surgery, Dayanand Medical College &amp; Hospital, Ludhiana, Punjab, India</td>
</tr>
<tr>
<td>11:13 am</td>
<td>Closed Reduction and Percutaneous Kirschner Wire Fixation for the Treatment of Displaced Intraarticular Calcaneal Fractures: Description of Surgical Technique and Early Outcomes</td>
<td>Yeming Wang; Jianguo Zhang; Xinlong Ma; Dept. of Orthopedics, Tianjin Hospital, Tianjin, P.R. China</td>
</tr>
<tr>
<td>10:39 am – 11:53 am</td>
<td><strong>PAPER SESSION 2:</strong> <strong>SPINE, LOWER EXTREMITIY</strong></td>
<td>Moderators: Lewis G. Zirkle, Jr, MD, Massimo Max Morandi, MD</td>
</tr>
<tr>
<td>10:39 am</td>
<td>One Incision, Double Plating for the Treatment of Dital Tibia and Fibula Fractures: Gross Anatomic Study and Case Series of Twenty Five Patients</td>
<td>Baoqing Yu, MD; Hui Ma, MD; Dept. of Orthopaedics, Changhai Hospital, The Second Military Medical University, Shanghai, China</td>
</tr>
<tr>
<td>11:05 am</td>
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<td>Rajeshwar Nath Srivastava; KG Medical College, CSM Medical University, Lucknow-India</td>
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<td>Yeming Wang; Jianguo Zhang; Xinlong Ma; Dept. of Orthopedics, Tianjin Hospital, Tianjin, P.R. China</td>
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</tbody>
</table>

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
11:21 am  Combining Reduction Plating Technique with Intramedullary Nailing for Tibial Segmental Fractures: Tricks and Traps  
Jian Lin, MD; Qiugen Wang, MD; Jianhua Huang, MD; Fan Li, MD; Wei Gao, MD; Haqing Li, MD; Jie Tao, MD; First People's Hospital Affiliated to Shanghai Jiaotong University, Shanghai, China

11:29 am  Discussion

11:45 am  Lunch—Interactive Poster Session

1:00 pm – 1:55 pm  SYMPOSIUM 2: NOVEL METHODS OF TREATING SOFT TISSUE DEFECTS WITHOUT MICROVASCULAR RECONSTRUCTION

Moderators:  David C. Templeman, MD  
Peter V. Giannoudis, MD

1:00 pm  Stretching Skin to Fill the Gap

1:10 pm  Low Cost Negative Pressure Devices

1:20 pm  Local Flaps

1:30 pm  Synthetic Coverings that Encourage Granulation

2:19 pm  Discussion

2:34 pm  Break

1:55 pm – 3:49 pm  PAPER SESSION 3: COMPLICATIONS

Moderators:  Wade R. Smith, MD  
Peter V. Giannoudis, MD

1:55 pm  Treatment of Blunt Major Arterial Injury in the Extremity: Why Is It Often Delayed?  
Can-Bin Zheng, MD; Qing-Tang Zhu, MD, PhD; Li-Qiang Gu, MD, PhD; Zhen-Guo Lao, MD, PhD; Ping Li, MD, PhD; Li-Yong Li, MD, PhD; Jian-Ping Xiang, MD, PhD; Xiao-Lin Liu, MD, PhD; Dept. of Microsurgery and Orthopaedic Trauma, The First Affiliated Hospital, Sun Yat-sen University, Guangzhou, Guangdong, China

3:10 pm  Long Locked Wave Plates and Autologous Bone Graft for the Treatment of Lower Limbs Nonunion  
Bartolome L. Allende, MD; Martin Mangupli, MD; Ignacio Pioli, MD; Sanatorio Allende, Cordoba, Argentina

3:18 pm  Indigenously Developed Topical Negative Pressure (TNP) Therapy in Acute and Neglected Trauma  
Selbi Harpal S, MD; Jain Deepak, MD; Mahindra Pankaj, MD; Yamin M, MD; Aggarwal Raghat, MD; Dept. of Orthopaedic Surgery, Dayanand Medical College & Hospital, Ludhiana, Punjab, India

3:34 pm    Discussion

3:49 pm – 4:49 pm    GUEST NATION SYMPOSIUM
OTA 1st Annual Guest Nation – ITALY

In recognition of the importance and benefits of sharing knowledge and experience with international colleagues, the OTA has instituted a Guest Nation Program. We are proud to announce that Italy has been selected as the 1st Annual OTA Guest Nation. Representatives from the Italian Society of Orthopedics and Traumatology Hospitals in Italy (OTODI) will participate in the following symposium. In addition, the Embassy of Italy will send a representative to the Annual Meeting. We are pleased to have this opportunity for collaboration with our Italian colleagues, and it will be an honor to recognize their contributions and achievements.

Introduction: William G. De Long, Jr, MD
Moderators: Andrew H. Schmidt, MD, William G. De Long, Jr, MD

Open Tibial Shaft Fractures
3:49 pm    Italian Perspective
Professor Francesco Biggi, MD; Bassano del Grappa, Italy

3:59 pm    American Perspective
Steven J. Morgan, MD
Englewood, Colorado, USA

4:09 pm    Discussion

Treatment of Infected Non Union of Tibia
4:19 pm    Italian Perspective
Francesco Falez, MD, Chief, Santo Spirito Hospital, Rome
Incoming President, Italian Society of Orthopedics and Traumatology Hospital in Italy (OTODI)

4:29 pm    American Perspective
Michael S. Sirkin, MD
Chief, Orthopaedic Trauma Services
University of Medicine and Dentistry New Jersey-New Jersey Medical School (UMDNJ-NJMS), USA
Assistant Professor of Clinical Orthopaedics, UMDNJ-NJMS, USA

4:39 pm    Discussion
4:49 pm    Adjourn

5:30 – 6:30 pm    International Reception

All international attendees are welcome.

2011 OTA / AOA "Own the Bone" Dinner Session
Marriott Riverwalk Hotel, Alamo Ballroom C

Wednesday, October 12, 2011

6:00 - 8:00 PM

Own the Bone is a web-based quality-improvement program, the ultimate goal of which is to reduce the risk of future fractures and to promote a multidisciplinary approach and coordination of care between orthopaedic surgeons, rheumatologists, endocrinologists, OB/GYN, and primary care physicians to ensure better bone health in patients age 50 and over. As a national, online registry, the program provides hospitals and medical centers with a structured system to optimize and track patient care, as well as access to internal and external benchmarking capabilities to measure performance for outside evaluators.

Program Objectives
The panel members will discuss their experience with different medical practitioners, working together to introduce Own the Bone and other post-fracture systems-based quality improvement initiatives within their institutions to address patients’ bone health and osteoporosis.
**2011 OTA Pre-Meeting Course**

**Young Practitioners Forum**

"The Tools for a Sustainable Trauma Career"

Lisa K. Cannada, MD, Chair

Attendees of this activity can earn up to 4.5 AMA PRA Category I Credits™.

Marriott Riverwalk Hotel, Alamo Ballroom

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**Thursday, October 13, 2011**

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### Target Audience

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

### Forum Objectives

1. Increase knowledge and understanding of the fellowship, job interviewing and negotiating processes;
2. Learn important tips for young practitioners in different practice settings;
3. Identify successful strategies for financial management;
4. Increase awareness of opportunities outside the operating room including volunteer opportunities and health policy issues.

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### Program

**Thursday, October 13, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
</table>
| 8:00 – 8:06 am | Overview  
Lisa K. Cannada, MD  
- Trauma Profile for Young Practitioners 2011 |
| 8:06 – 8:12 am | Choosing a Fellowship  
Christian S. Bromfield, MD  
UC Davis  
- The Match Process:  
  A Candidate’s Experience from the Trenches  
  Approaching the Match Process |
| 8:12 – 8:26 am | A Diary of A Fellow’s Job Search  
Dan D. Kemper, MD  
a. How I Approached It  
b. Questions I Asked  
c. Getting What I Wanted |
| 8:26 – 8:33 am | Making the Most of Your Fellowship  
David C. Templeman, MD |
| 8:33 – 8:44 am | My First Years in Practice  
Frank A. Liporace, MD  
- What I Learned  
- What I Wish I Knew  
- What I Would Do Differently |
| 8:44 – 9:04 am | Panel: Career and Employment Horizons: Identification of Career Destination  
Bruce H. Ziran, MD  
Sam G. Agnew, MD  
Brian H. Mullis, MD  
**QUESTIONS** |
| 9:04 am |  
**QUESTIONS**  
How to Get What You Want in a Hospital  
Aaron G. Osborne, DO  
**QUESTIONS** and BREAK |
| 9:16 – 9:26 am | How the OTA Can Help Your Career  
Jeffrey M. Smith, MD |
| 9:26 – 9:34 am | The Numbers You Need to Know  
a. To Negotiate Your Contract  
Alan L. Jones, MD  
b. To Set Up a Practice  
William R. Creevy, MD |
| 9:34 – 10:02 am | 10:02 – 10:18 am |
Young Practitioners Forum Program, cont'd

10:18 – Things You Never Thought of that
10:30 am Make a Difference
J. Tracy Watson, MD

10:30 – Lessons Regarding Your Practice
10:41 am and Balance
H. Claude Sagi, MD

10:41 – Hints for Personal Financial Management
11:01 am Roy Sanders, MD

11:01 – The Most Bizarre Cases I Ever Did
11:13 am Michael D. McKee, MD

11:13 am QUESTIONS

11:25 – Keynote Address
11:45 am Medicolegal Information for the Young
Traumatologist: Better Safe than Sorry!
Eric Meinberg, MD

11:45 am – Wrap up
12:00 pm Lisa K. Cannada, MD

12:00 – Lunch Panel: The Marriage/Partnership
12:45 pm Ups and Downs of the Traumatologist
Alexandra Schwartz, MD

Panel on Marriage/Divorce/Sacrifice/
My Kids Hate Me and Making it Work!
J. Lawrence Marsh, MD
Robert P. Dunbar, Jr., MD

1:00 pm 27th ANNUAL MEETING BEGINS
(Marriott Rivercenter, Grand Ballroom)

Scientific Posters

*Marriott Rivercenter Grand Ballroom Foyer*

viewing times:

- Thursday 11:00 am - 5:00 pm
- Friday 6:30 am - 5:00 pm
- Saturday 6:30 am - 5:00 pm

Technical Exhibits

*Marriott Rivercenter Grand Ballroom (G-J)*
will be open:

- Friday 6:30 am - 5:00 pm
- Saturday 6:30 am - 1:00 pm

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
Preliminary Program

27th OTA Annual Meeting

Attendees of this activity can earn up to 20+ AMA PRA Category I Credits™.

Thursday – Saturday, October 13 – 15, 2011

Thursday, October 13, 2011

6:30 am
Registration
(Marriott Rivercenter Grand Ballroom Foyer)

1:00 pm
Welcome
(Marriott Rivercenter Grand Ballroom)
Andrew N. Pollak, MD  OTA President
James A. Goulet, MD  Program Chair
Thomas F. Higgins, MD  Program Co-Chair
Animesh Agarwal, MD  Local Host

1:10 – 1:20 pm
Research and Education Donor
Award Presentations
Andrew N. Pollak, MD
OTA President

1:20 – 2:45 pm
Symposium I:
Geriatric Fractures:
The Role for Trauma Trained Surgeons
Moderator:  Clifford B. Jones, MD
Faculty:  Kyle J. Jeray, MD
Steven L. Kates, MD
Joseph M. Lane, MD
(Marriott Rivercenter Grand Ballroom)

This symposium will address the changing priorities, landscape, and problems associated with geriatric and osteoporotic fractures. We will discuss the metabolic work up and treatment and the pre- and peri- operative treatment of osteoporotic fractures. We will review treatment problems and options associated with geriatric/osteoporotic fractures. We will also review case studies with audience discussion.

2:45 – 3:42 pm
Scientific Session I
Polytrauma
Moderator:  Victor A. de Ridder, MD, PhD

Timing of Orthopaedic Surgery in Multiply–injured Patients: Development of a Protocol for Early Appropriate Care
Heather A. Vallier, MD; Xiaofeng Wang, PhD; Timothy A. Moore, MD; John H. Wilber, MD; MetroHealth Medical Center, Cleveland, Ohio, USA

Trends in Musculoskeletal Imaging for Trauma Patients: How Has our Practice Changed Over Time?
Kasra Ahmadinia, MD¹; Charles Ekstein, BS²; Frank Forde¹; Paul Tornetta, III, MD²;
Heather A. Vallier, MD¹;
¹MetroHealth Medical Center,
Cleveland, Ohio, USA;
²Boston University Medical Center,
Boston, Massachusetts, USA

2:51 pm
Trend in Musculoskeletal Imaging for Trauma Patients: How Has our Practice Changed Over Time?
Kasra Ahmadinia, MD¹; Charles Ekstein, BS²; Frank Forde¹; Paul Tornetta, III, MD²;
Heather A. Vallier, MD¹;
¹MetroHealth Medical Center,
Cleveland, Ohio, USA;
²Boston University Medical Center,
Boston, Massachusetts, USA

2:57 pm
Delayed Wound Closure Increases Deep Infection Rate in Lower Grade Open Fractures: A Propensity Matched Cohort Study
Richard J. Jenkinson, MD; Alexander Kiss, PhD;
Samuel C. Johnson, MD;
David J. Stephen, MD; Hans J. Kreder, MD;
University of Toronto,
Toronto, Ontario, Canada

3:02 pm
Stress–Induced Hyperglycemia is a Risk Factor for Surgical–Site Infection in Non–Diabetic Orthopaedic Trauma Patients
Justin E. Richards, MD;
Rondi M. Kauffmann, MD;
William T. Obremskey, MD;
Addison K. May, MD;
Vanderbilt University Medical Center,
Nashville, Tennessee, USA

1:00 pm
Welcome
(Marriott Rivercenter Grand Ballroom)
Andrew N. Pollak, MD  OTA President
James A. Goulet, MD  Program Chair
Thomas F. Higgins, MD  Program Co-Chair
Animesh Agarwal, MD  Local Host

1:10 – 1:20 pm
Research and Education Donor
Award Presentations
Andrew N. Pollak, MD
OTA President

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Geriatric Fractures:
The Role for Trauma Trained Surgeons
Moderator:  Clifford B. Jones, MD
Faculty:  Kyle J. Jeray, MD
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Joseph M. Lane, MD
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²Boston University Medical Center,
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Justin E. Richards, MD;
Rondi M. Kauffmann, MD;
William T. Obremskey, MD;
Addison K. May, MD;
Vanderbilt University Medical Center,
Nashville, Tennessee, USA
Thursday, October 13, 2011, continued

3:14 pm  Discussion

3:19 pm  Is Patient Satisfaction After Fracture Predicted by Functional Outcome or Injury Severity?
         Eric J. Belin, MD; Ebrahim Paryavi, MD; Renan C. Castillo, PhD; Robert V. O'Toole, MD;
         1R Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, Maryland, USA
         2Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA
         Paper #29

3:25 pm  Does Pain Correlate with Patient Based Functional Outcome Scores After Commonly Operatively Treated Fractures?
         Clifford B. Jones, MD; Debra L. Sietsema, PhD; Gillian L. Sembler Soles, MD; Paul Tornetta, III, MD;
         Orthopaedic Associates of Michigan, Michigan State University, Grand Rapids, Michigan, USA;
         Boston University Medical Center, Boston, Massachusetts, USA
         Paper #30

3:31 pm  Loss of Follow–Up in Orthopaedic Outcome Studies: Is 80% Follow–Up Still Acceptable?
         Boris A. Zelle, MD; Mohit Bhandari, MD; Alvaro J. Sanchez, MD; Christian Probst, MD;
         Hans–Christoph Pape, MD;
         1University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA;
         2McMaster University, Hamilton, Ontario, Canada;
         3University of Witten/Herdecke, Witten, Germany;
         4University of Aachen, Aachen, Germany
         Paper #31

3:37 pm  Discussion

3:42 pm  Break

4:12 – 5:10 pm

Scientific Session II
Basic Science

Moderator:  Theodore Mclau, III, MD

4:12 pm  Early Initial Antibiotics and Debridement Independently Reduce Infection in an Open Fracture Model
         Jowan G. Penn–Barwell, MB ChB;
         Clinton K. Murray, MD;
         Joseph C. Wenke, PhD;
         1Academic Dept. Military Surgery and Trauma, Royal Centre for Defence Medicine, Birmingham, United Kingdom;
         2Brooke Army Medical Center, Fort Sam Houston, Texas, USA;
         3US Army Institute for Surgical Research, Fort Sam Houston, Texas, USA
         Paper #32

4:18 pm  Effect of Negative Pressure Wound Therapy on the Elution of Antibiotics from Polymethylmethacrylate Beads in a Porcine Simulated Open Femur Fracture Model
         Thomas M. Large, MD; Geoffrey Douglas, MD; Gregory Erickson, MD; J. Kevin Grayson, MD;
         David Grant Medical Center, Travis AFB, South Bend, Indiana, USA
         Paper #33

4:24 pm  Can We Trust Intraoperative Culture Results in Nonunions?
         Daniel T. Altman, MD; Gregory T. Altman, MD; Jeffrey J. Sewecke, DO; Trenton M. Gaust, BA;
         William J. Costerton, PhD;
         Allegheny General Hospital, Pittsburgh, Pennsylvania, USA
         Paper #34

4:30 pm  Local Antibiotic Delivery by a Bioabsorbable Gel is Superior to PMMA Beads at Reducing Infection in an Open Fracture Model
         Jowan G. Penn–Barwell;
         Clinton K. Murray, MD;
         Joseph C. Wenke, PhD;
         1Academic Dept. Military Surgery and Trauma, Royal Centre for Defence Medicine, Birmingham, United Kingdom;
         2Brooke Army Medical Center, Fort Sam Houston, Texas, USA;
         3US Army Institute for Surgical Research, Fort Sam Houston, Texas, USA
         Paper #35

4:36 pm  Discussion

4:36 pm  Discussion

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
4:41 pm  
**A Biomechanical Analysis of Lag Screw Position in the Femoral Head for Cephalomedullary Nails**  
Paul R. Kuzyk, MD; Rad Zdero, PhD; Suraj Shah, BS; Michael Olsen, PhD; James P. Waddell, MD; Emil H. Schemitsch, MD;  
1University of Toronto, Toronto, Ontario, Canada;  
2Ryerson University, Toronto, Ontario, Canada

4:47 pm  
**When Does Anterior External Fixation (AEF) Enhance Construct Stability in Zone II Sacral Fractures? A Biomechanical Evaluation**  
Christian S. Bromfield, MD; Erik McDonald, BS; Michael Leslie, DO; Jenni M. Buckley, PhD; Mark A. Lee, MD; Tania A. Ferguson, MD;  
1UC Davis Dept. of Orthopaedic Surgery, Sacramento, California, USA;  
2UC San Francisco, San Francisco, California, USA;  
3Yale University Dept. of Orthopaedic Surgery, New Haven, Connecticut, USA;  
4St. Mary's Hospital/San Francisco Orthopaedic Residency Program, San Francisco, California, USA

4:53 pm  
**Are Commercially Available Synthetic Osteoporotic Bone Models Valid?**  
Edward H. Becker, MD; Hyunchul Kim, BS; Michael J. Shoroisky, BS; Adam Hsieh, PhD; Robert V. O'Toole, MD;  
1R Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, Maryland, USA;  
2University of Maryland, College Park, Maryland, USA

4:59 pm  
**Do Locked Screws Work in Bent Plates?**  
Christina L. Boulton, MD; Hyunchul Kim; Swapnil B. Shah, MD; Scott P. Ryan, MD; Thomas A. Metzger; Adam H. Hsieh, PhD; Robert V. O'Toole, MD;  
1R Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, Maryland, USA;  
2Orthopaedics Mechanobiology Lab, Dept. of Bioengineering, University of Maryland, College Park, Maryland, USA;  
3Alameda County Medical Center, Oakland, California, USA

5:05 pm  
Discussion

5:10 – 6:10 pm  
**Member Business Meeting**

6:30 – 8:30 pm  
**Welcome Reception**  
Join the OTA for cocktails and a generous assortment of hors d’oeuvres at La Villita. La Villita is a historic arts village and plaza located on the River Walk, a short walk from the Marriott Riverwalk/Rivercenter.
Friday, October 14, 2011

6:30 am     Registration – (Marriott Rivercenter Grand Ballroom Foyer)
Visit Technical Exhibits – (Marriott Rivercenter Grand Ballroom G - J)

CHOSE TO ATTEND ONE:
Increase your chances for your first choice, register EARLY on-line at www.ota.org.
Tickets are required.

Please Bring Difficult Cases for Consultation

6:30 am     Continental Breakfast

6:45 am – 7:45 am  Case Presentations

<table>
<thead>
<tr>
<th>Orthopaedic Trauma Coding Update (#F1)</th>
<th>Marriott Rivercenter Grand Ballroom G - J</th>
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<tbody>
<tr>
<td>Moderator: William R. Creevy, MD</td>
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<tr>
<td>Faculty: J. Scott Broderick, MD and Michael S. Sirkin, MD</td>
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<tr>
<th>Management of Pelvic and Acetabulum Fractures (#F2)</th>
<th>Marriott Rivercenter Grand Ballroom G - J</th>
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<tr>
<td>Moderator: Paul Tornetta, III, MD</td>
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<tr>
<td>Faculty: Clifford B. Jones, MD; Robert F. Ostrum, MD; William M. Ricci, MD and Wade R. Smith, MD</td>
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<tr>
<th>Challenging Hip Fractures-When the Fracture Table Doesn’t Work (#F3)</th>
<th>Marriott Rivercenter Grand Ballroom G - J</th>
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<tr>
<td>Moderator: Amer J. Mirza, MD</td>
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<tr>
<td>Faculty: David P. Barei, MD; Daren Freiss, MD; James C. Krieg, MD and Samir Mehta, MD</td>
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<tr>
<th>New Approaches to Difficult Tibial Plateau Fractures (#F4)</th>
<th>Marriott Rivercenter Grand Ballroom G - J</th>
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<tr>
<td>Moderator: David C. Templeman, MD</td>
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<tr>
<td>Faculty: James A. Goulet, MD; J. Tracy Watson, MD and Robert A. Winquist, MD</td>
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<tr>
<td>Moderator: Jaimo Ahn, MD, PhD</td>
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<tr>
<td>Faculty: Erik Kubiak, MD and Michael D. McKee, MD</td>
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8:00 am – 9:30 am

Symposium II:

Pain Management in Trauma: Risk to Patients, Burden on Surgeons, Opportunity for Improvement

Moderator: Thomas F. Higgins, MD
Faculty: Mark S. Vrahas, MD
Jeffrey D. Swenson, MD
(Marriott Rivercenter Grand Ballroom)

Morality from oral prescription opiates is approaching epidemic levels nationally. Orthopaedic surgeons are under ever-increasing pressure to provide near complete analgesia, even in the setting of acute trauma and post-trauma recovery. Meeting these demands comes with significant risks to the patient’s health and the physician’s practice. The symposium aims to describe the risks inherent in pain management, and elucidate strategies for dealing with patients demands, and offer alternatives to opiate pain medicine in the acute setting.

9:30 am – 10:00 am

Break
Visit Scientific Posters
(Marriott Rivercenter Grand Ballroom Foyer)
& Technical Exhibits
(Marriott Rivercenter Grand Ballroom G - J)

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
Scientific Session III
Pelvis and Spine

Moderators: John T. Ruth, MD
Pierre Guy, MD, MBA

10:00 am
Cervical Spine Clearance Protocols in Level I, II and III Trauma Centers in the State of California
Murat Pekmezci, MD; Roberto Dinisio, BS; Christopher Nystuen, MD; Geoffrey Manley, MD; Robert Mackersie, MD; Trigg R. McClellan, MD; University of California San Francisco, San Francisco General Hospital, San Francisco, California, USA

10:06 am
Vertebral Artery Injury Associated with Blunt Cervical Spine Trauma: A Multicenter Study
Darren R. Lebl, MD; Kirkham B. Wood, MD; George Velmahos, MD; Umesh Metkar, MD; Christopher M. Bono, MD; Mitchel B. Harris, MD; 1 The Hospital for Special Surgery, New York, New York, USA; 2 Massachusetts General Hospital, Boston, Massachusetts, USA; 3 Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA; 4 Brigham and Women’s Hospital, Boston, Massachusetts, USA

10:12 am
Discussion

10:17 am
The Clinical Efficacy of Compressive Trans–sacral Screw Fixation for Unstable Posterior Pelvic Ring Injuries
William Min, MD; Monique Chambers, BS; Michael Leslie, DO; Mark A. Lee, MD; Tania A. Ferguson, MD; 1 University of California, Davis Medical Center, Sacramento, California, USA; 2 Yale University School of Medicine, New Haven, Connecticut, USA

10:23 am
An Analysis of the Demographic and Technical Characteristics Associated with Iliac Cortical Perforation During Insertion of Iliosacral Screws
James Stuart Melvin, MD; Nicholas Pulos, BA; Keith Baldwin, MD, MPH, MSPT; Amer Mirza, MD; Michael J. Gardner, MD; Samir Mehta, MD; 1 Carolinas Medical Center, Charlotte, North Carolina, USA; 2 University of Pennsylvania, Philadelphia, Pennsylvania, USA; 3 Oregon Health & Science University, Portland, Oregon, USA; 4 Washington University, St. Louis, Missouri, USA

10:29 am
Can a Single Screw Be Used For Bilateral SI Fixation?
Jason Alan Patterson, MD; Patrick Liu, MD; Ryan McLemore, MD; 1 Banner Good Samaritan Medical Center, Phoenix, Arizona, USA; 2 Mayo Clinic Phoenix, Phoenix, Arizona, USA

10:35 am
Discussion

10:40 am
Critical Analysis of Pelvic Angiography for Trauma and Development of a Scoring System
Maria Iannolo, MD; Jonathan M. Gross, MD; Catherine A. Humphrey, MD; Mark L. Prasarn, MD; John P. Ketz, MD; University of Rochester Medical Center, Rochester, New York, USA

10:46 am
The Importance of Trauma–Center Care on Mortality and Function following Pelvic Ring and Acetabular Injuries
Saam Morshed, MD; Gregory J. Jurkovich, MD; Jin Wang, PhD; Simon Knops, MD; Frederick P. Rivara, MD; 1 University of California San Francisco, San Francisco, California, USA; 2 University of Washington School of Medicine, Seattle, Washington, USA

10:52 am
Discussion
Scientific Session IV

Tibia

Moderator: Thomas F. Higgins, MD

Measurement of Tissue Oxygenation as a Novel Approach to Diagnosis of Compartment Syndrome

Erik H. Hansen, MD1; James M. Mok, MD1;
Giverny Manzano, BS1; Utku Kandemir, MD1;
1University of California San Francisco, San Francisco, California, USA;
2Orthopaedic Surgery Service, Madigan Army Medical Center, Tacoma, Washington, USA

Fasciotomy for Acute Compartmental Syndrome Increases the Incidence of Infection, Non–union and Delayed Union of Operatively Treated Tibial Fractures

Dan Kemper, MD1; Murat Erdogan, MD1;
Alejandro Castellvi, BS1; H. Claude Sagi, MD1;
1Florida Orthopaedic Institute, Tampa, Florida, USA;
2University of South Florida, Tampa, Florida, USA;
3Ondokuz Mayis University, Samsun, Turkey

Do Intracompartmental Pressure Measurements Have a High False Positive Rate in Diagnosing Compartment Syndrome?

Augusta Whitney, MD1;
Robert V. O'Toole, MD1; Emily Hui, BS1;
Marcus F. Sciadini, MD1;
Andrew N. Pollak, MD1;
Theodore T. Manson, MD1;
W. Andrew Eglseder, MD1;
Christopher Doro, MD1;
Jason W. Nascone, MD1;
1R Adams Cowley Shock Trauma Center, Dept. of Orthopaedics, University of Maryland, Baltimore, Maryland, USA;
2Dept. of Orthopaedics, University of Wisconsin School of Medicine, Madison, Wisconsin, USA

The Insertion of IMN Locking Screws without Fluoroscopy: A Faster and Safer Technique

Daniel Steven Chan, MD1;
Brandon Burris, MD2; Murat Erdogan, MD3;
H. Claude Sagi, MD1; Roy Sanders, MD4;
1Florida Orthopaedic Institute, Tampa, Florida, USA;
2University of South Florida, Tampa, Florida, USA;
3Ondokuz Mayis University, Samsun, Turkey

A Comparison of Efficacy and Resource Utilization Between Acute BMP–2 and SOC in Type III Open Tibia Fractures: A Multi–Center PRCT

OREF Tibia Fracture BMP Cost Study Group SAA;
Carolinas Medical Center, Charlotte, North Carolina, USA

The Role of Antibiotics in Open Fractures Revisited: Characteristics of Staphylococcus Aureus (SA) and Susceptibility Profile

Carla C. Savelli, MD1; Steven J. Morgan, MD2;
Robert W. Belknap, MD3; Erin Ross, BS3;
Philip F. Stahel, MD1; David J. Hak, MD1;
Walter L. Biiffi, MD1; Connie S. Price, MD1;
1University of Colorado Denver, Aurora, Colorado, USA;
2Swedish Medical Center, Englewood, Colorado, USA
11:55 am  
**Tibia Nonunion Prediction: Is It Possible?**  
*Justin S. Yang, MD; Jesse Otero, MD; Christopher M. McAndrew, MD; William M. Ricci, MD; Michael J. Gardner, MD; Washington University School of Medicine, St. Louis, Missouri, USA*

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12:01 pm  
**Discussion**

12:06 – 1:00 pm  
**Lunch**

12:06 – 1:00 pm  
**Visit Scientific Posters**  
( Marriott Rivercenter Grand Ballroom Foyer)  
& Technical Exhibits  
( Marriott Rivercenter Grand Ballroom G - J)

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**Concurrent Sessions**

**Skills Labs and Mini Symposia**

**CHOOSE TO ATTEND ONE:** Increase your chances for your first choice, register EARLY on-line at www.ota.org.

**Tickets are required.**

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**Mini Symposia**

**Marriott Riverwalk Hotel**

**The “Not So Simple” Ankle Fracture – Avoiding Problems and Pitfalls to Improve Patient Outcome** (#F6)  
Moderator:  **David J. Hak, MD**  
Faculty:  **Kenneth A. Egol, MD; Michael J. Gardner, MD and Andrew Haskell, MD**

**Amputations in Trauma: Getting the Most Out of Your Limb** (#F7)  
Moderators:  **Paul G. Dougberty, MD and Lisa K. Cannada, MD**  
Faculty:  **Romney C. Andersen, MD and Rahul Vaidya, MD**

**Preoperative Nightmares – What is the Evidence?** (#F8)  
Moderator:  **John T. Gorczyca, MD**  
Faculty:  **Michael A. Miranda, MD; Kevin J. Pugh, MD and Jeffrey M. Smith, MD**

**Fundamentals in Trauma I** (#F9)  
Moderator:  **Robert F. Ostrum, MD**  
Faculty:  **Frank A. Liporace, MD; Steven J. Morgan, MD; Thomas F. Varecka, MD and J. Tracy Watson, MD**

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**Skills Labs**

**Henry B. Gonzalez Convention Center**

**ORIF Distal Radius Fractures** (#F10)  
Moderator:  **Margaret M. McQueen, MD**  
Faculty:  **TBD**

**ORIF Periprosthetic Fractures of the Femur** (#F11)  
Moderator:  **George H. Haidukewych, MD**  
Faculty:  **Cory A. Collinge, MD; Joshua Langford, MD and Bruce H. Ziran, MD**

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Continued on next page.
**President's Message**

"Overcoming Challenges to Fulfilling our Mission in Patient Care and Education"

Andrew N. Pollak, MD

(Marriott Rivercenter Grand Ballroom)

**Skills Labs, Continued**

**ORIF Distal Tibia and Fibula Fractures (F12)**

Moderator: Jason W. Nascone, MD  
Faculty: Matt L. Graves, MD; Christopher T. LeBrun, MD; Robert V. O'Toole, MD and Marcus F. Sciadini, MD

**SIGN Nailing (F13)**

Moderator: Lewis G. Zirkle, Jr., MD  
Faculty: Tobias Otieno, MD; Faseeh Shahab, MD; John W. Staeheli, MD; David C. Templeman, MD; M. Ismail Wardak, MD and Frederick B. Wilson, Jr., MD

**Concurrent Sessions, Continued**

**2:30 – 3:00 pm**

**President's Message**

"Overcoming Challenges to Fulfilling our Mission in Patient Care and Education"

Andrew N. Pollak, MD  
(Marriott Rivercenter Grand Ballroom)

**3:00 – 3:30 pm**

**Break**

**Visit Scientific Posters**  
(Marriott Rivercenter Grand Ballroom Foyer)  
& Technical Exhibits  
(Marriott Rivercenter Grand Ballroom G-J)

**3:30 – 5:01 pm**

**Scientific Session V**

**Knee, Foot & Ankle**

Moderators: Michael J. Gardner, MD  
Shepard R. Hurwitz, MD

**3:30 pm**

Definitive Plates Overlapping Provisional External Fixator Pin Sites: Is the Infection Risk Increased?  
Chirag M. Shah, MD;  
Olubusola Brimmo, MD;  
William M. Ricci, MD;  
Michael J. Gardner, MD;  
Washington University School of Medicine, St. Louis, Missouri, USA

**3:36 pm**

Computed Tomography (CT) Scan to Detect Traumatic Arthrotomies of the Knee Joint  
Sanjit R. Konda, MD;  
Roy I. Davidovitch, MD;  
Kenneth A. Egel, MD;  
NYU Hospital for Joint Diseases, New York, New York, USA

**3:42 pm**

Immediate Primary Repair and Early Range of Motion of Acute Multiligamentous Knee Injuries: A Prospective Cohort Study  
Philipp N. Streubel, MD;  
Justin E. Richards, MD;  
Vanderbilt Medical Center, Nashville, Tennessee, USA

**3:53 pm**

Predictors of Knee Stiffness After Periarticular Fracture  
Julius A. Bishop, MD; Julie Agel, ATC;  
Robert Dunbar, MD;  
Stanford University Medical Center, Redwood City, California, USA;  
H Harborview Medical Center, Seattle, Washington, USA

**3:59 pm**

Discussion
4:04 pm  Is Fixation of the Medial Malleolus Necessary?  
Paul Tornetta, III, MD; Virginia Mooney, MD; 
Jason Pittman, MD; James Daley;  
Boston University Medical Center, Boston, Massachusetts, USA  
4:10 pm  Posterolateral Antiglide vs Lateral Plating for SE Pattern Ankle Fractures: A Multicenter Randomized Control Trial  
Paul Tornetta, III, MD; Laura Phieffer, MD; 
Clifford B. Jones, MD; Janos P. Ertl, MD; 
Brian Mullis, MD; Kenneth A. Egol, MD; 
Michael J. Gardner, MD; 
William M. Ricci, MD;  
1Boston University Medical Center, Boston, Massachusetts, USA;  
2Ohio State University Medical Center, Columbus, Ohio, USA;  
3Orthopaedic Associates of Michigan, Grand Rapids, Michigan, USA;  
4Indiana University, Indianapolis, Indiana, USA;  
5NYU Hospital for Joint Disease, New York, New York, USA;  
6Barnes–Jewish Hospital, St. Louis, Missouri, USA  
4:16 pm  Discussion  
4:21 pm  Efficacy of Popliteal Block in Post–Operative Pain Control After Ankle Fracture Fixation: A Prospective Randomized Study  
Rachel Y. Goldstein, MD; Nicole Montero, BA; 
Toni McLaunir, MD; 
Sandra Starcic–Herrera, MD; 
Kenneth A. Egol, MD; 
Nirmal C. Tejwani, MD; 
NYU Hospital for Joint Diseases, New York, New York, USA  
4:27 pm  Twenty Year Follow Up of Conservatively Treated Isolated Posterio Malleolar Ankle Fractures: A Case Series  
Christian Donken, MD; 
Michael Verhoefstad, PhD; 
Michael Edwards, PhD; 
Cees van Laarhoven, PhD;  
1Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands;  
2Elisabeth Hospital, Tilburg, Netherlands  
4:33 pm  Discussion  
4:38 pm  TEFTOM – A Promising General Trauma Outcome Measure? Results of a Validation Study of Pan–American Ankle Trauma Patients  
Michael Suk, MD; Monica Daigl Cattaneo; 
Richard E. Buckley, MD; 
Cleber A.J. Paccola, MD; 
Dean G. Lorich, MD; David L. Helfet, MD; 
Beate Hanson, MD;  
1University of Florida, Jacksonville, Florida, USA;  
2AO Foundation, Clinical Investigation and Documentation, Dübendorf, Switzerland;  
3Foothills Medical Centre, Calgary, Alberta, Canada;  
4Ribeirao Preto Medical School, Sao Paolo, Brazil;  
5New York Presbyterian Hospital, New York, New York, USA;  
6Hospital for Special Surgery, New York, New York, USA  
4:44 pm  Payer Status Negatively Influences Initial Treatment at Community Hospitals Compared to a Tertiary Care Center: A Prospective Study of 300 Operative Ankle Fractures  
Michael T. Archdeacon, MD; 
Sudhir R. Belagaje, MD;  
University of Cincinnati, Dept. of Orthopaedic Surgery, Cincinnati, Ohio, USA  
4:50 pm  Payer Status and Increased Distance Traveled for Fracture Care in a Rural State  
William Lack, MD; Julian Carlo, MD; 
J. Lawrence Marsh, MD;  
University of Iowa Hospitals and Clinics, Iowa City, Iowa, USA  
4:56 pm  Discussion  
5:01 pm  Adjourn  
5:30 – 6:30 pm OTA Military Reception


**Saturday, October 15, 2011**

6:30 am  
**Registration** – (Marriott Rivercenter Grand Ballroom Foyer)  
**Visit Technical Exhibits** – (Marriott Rivercenter Grand Ballroom G - J)

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<tr>
<td>6:30 am</td>
<td>Registration – (Marriott Rivercenter Grand Ballroom Foyer)</td>
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| 6:45 – 7:45 am | Case Presentations  
**Proximal Humerus Fractures – Current Concepts** (#S1)  
Moderator:  **Michael J. Gardner, MD**  
Faculty:  Clifford B. Jones, MD; Utku Kandemir, MD; Samir Mehta, MD and James R. Ringler, MD

**Practical Issues in Clinical Research** (#S2)  
Moderator:  Theodore Mclau, III, MD and Mohit Bhandari, MD  
Faculty:  Gerard P. Slobogean, MD, MPH and Michael P. Zlowodzki, MD

**Evaluation and Management of Complex Pediatric Elbow Fractures** (#S3)  
Moderator:  David A. Podesswua, MD  
Faculty:  Christine A. Ho, MD; Anthony I. Riccio, MD and Robert L. Wimberly, MD

**Pelvic Ring Injuries: Surgical Treatment of Instability** (#S4)  
Moderators:  James C. Krieg, MD and M.L. Chip Routt, Jr., MD  
Faculty:  Mark C. Reilly, MD

**Scapula Fracture Injuries and Treatment** (#S5)  
Moderator:  William T. Obremiskey, MD  
Faculty:  Peter A. Cole, MD; Clifford B. Jones, MD and Paul Tornetta, III, MD

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| 8:00 – 9:30 am | **Symposium III:**  
Managing an Orthopaedic Trauma Practice: Strategies for Turbulent Times  
Moderator:  William R. Crevey, MD |

This symposium will address practice management issues related to the orthopaedic trauma surgeon. The OTA membership has been surveyed to determine the most relevant and interesting topics.

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| 9:30 am – 10:00 am | **Break**  
Visit Scientific Posters  
(Marriott Rivercenter Grand Ballroom Foyer) & Technical Exhibits  
(Marriott Rivercenter Grand Ballroom G - J) |

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Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
10:00 am  –  12:00 pm

**Scientific Session VI**

**Pediatrics, Geriatrics, Hip, Femur and Injury Prevention**

Moderators: James A. Goulet, MD  
Victor A. de Ridder, MD, PhD

10:00 am

**A Prospective Evaluation of Post–Traumatic Stress Disorder and Parent Stress in Children Exposed to Orthopaedic Trauma**

Meagan Wallace, MD; Aki Puryear, MD; Lisa K. Cannada, MD; Saint Louis University, Clayton, Missouri, USA

10:06 am

**Does Following the AAOS and AAP Guidelines for Trampoline Use Decrease the Severity of Pediatric Trampoline Injuries? A Prospective Study.**

James R. Phelps, MD; Christine Ann Ho, MD; Pam Okada, MD; Neal Evans, MD;  
1 University of Texas Southwestern Medical School, Dallas, Texas, USA;  
2 Texas Scottish Rite Hospital for Children, Children's Medical Center, Dallas, Texas, USA;  
3 Cook Children's Hospital, Fort Worth, Texas, USA

10:12 am

**Discussion**

10:17 am

**Pediatric Type 2 Supracondylar Humerus Fractures: Does Time to Surgery Matter?**

A. Noelle Larson, MD; Sumeet Garg, MD; Amanda Weller, MD; Nicholas D. Fletcher, MD; Jonathan Schiller, MD; Michael Kwon, MD; Lawson A.B. Copley, MD; Christine Ann Ho, MD;  
1 University of Minnesota, Minneapolis, Minnesota, USA;  
2 University of Texas Southwestern Medical School, Dallas, Texas, USA;  
3 Emory University, Atlanta, Georgia, USA;  
4 Brown University, Providence, Rhode Island, USA;  
5 Texas Scottish Rite Hospital for Children, Children's Medical Center, Dallas, Texas, USA

10:23 am

**Management of the Pediatric Pulseless Supracondylar Humerus Fracture: Is Vascular Exploration Necessary?**

Amanda L. Weller, MD; Sumeet Garg, MD; A. Noelle Larson, MD; Nicholas D. Fletcher, MD; Jonathan R Schiller, MD; Michael Kwon, MD; Lawson A.B. Copley, MD; Christine Ann Ho, MD;  
1 University of Texas Southwestern Medical School, Dallas, Texas, USA;  
2 Denver Children's Hospital, Denver, Colorado, USA;  
3 University of Minnesota, Minneapolis, Minnesota, USA;  
4 Emory University, Atlanta, Georgia, USA;  
5 Brown University, Providence, Rhode Island, USA;  
6 Texas Scottish Rite Hospital for Children, Children's Medical Center, Dallas, Texas, USA

10:29 am

**Discussion**

10:40 am

**Functional Outcomes of Non–Operative Treatment of Geriatric Acetabular Fractures Meeting Operative Criteria**

Scott Ryan, MD; Robert V. O'Toole, MD; Christopher Lebrun, MD; Jason W. Nascone, MD; Marcus F. Sciadini, MD; R Adams Cowley Shock Trauma Center, University of Maryland, Baltimore, Maryland, USA

10:46 am

**Surgical Treatment Improves Clinical and Functional Outcomes for Patients who Sustain Incomplete Bisphosphonate Induced Femur Fractures**

Kenneth A. Egol, MD; Colin J. Prensky, BA; Ji Hae Park, BS; Zehava S. Rosenberg, MD; Tejwani J. Nirmal, MD; NYU Hospital for Joint Diseases, New York, New York, USA

10:52 am

**Discussion**

10:57 am  Patient Variables which may Predict Length of Stay and Incurred Hospital Costs in Elderly Patients with Low Energy Hip Fracture
Anna E. Garcia, BS\(^1\); J.V. Bonnain, BS\(^3\);
Zachary T. Yoneda, BS\(^3\);
Justin E. Richards, MD\(^1\);
Jesse M. Ehrenfeld, MD\(^1\);
Manish K. Sethi, MD\(^1\);
Amir Alex Jahangir, MD\(^1\);
William T. Obremskey, MD\(^1\);
\(^1\)Vanderbilt University Medical Center, Nashville, Tennessee, USA;
\(^2\)Meharry Medical College, Nashville, Tennessee, USA

11:03 am  DVT Prophylaxis and Mortality Post Hip Fracture
Pierre Guy, MD\(^1\); Rik W. Nienhuis, MD\(^2\);
Kelly Lefaivre, MD\(^1\); Lisa Kuramoto\(^1\);
Sobolev Boris, PhD\(^1\);
\(^1\)University of British Columbia, Vancouver, British Columbia, Canada;
\(^2\)University of Groningen, Groningen, Netherlands

11:09 am  Effect of Fracture Displacement and Surgical Treatment Modality on Rate of Revision Surgery Following Femoral Neck Fracture
Donavan Murphy, MD;
Timmothy Randell, MD; Juhee Song, MD;
Kindyle Brennan, MD; Michael Brennan, MD;
Robert Probe, MD;
Scott & White Memorial Hospital, Temple, Texas, USA

11:15 am  Discussion

11:20 am  Pain and Satisfaction with Pain Management in Hospitalized Trauma Patients
Kristin R. Archer, PhD\(^1\); Renan Castillo, PhD\(^1\);
Stephen Wegener, PhD\(^1\);
Christine M. Abrahám\(^1\);
William T. Obremskey, MD\(^1\);
\(^1\)Vanderbilt University Medical Center, Nashville, Tennessee, USA;
\(^2\)Johns Hopkins Bloomberg School of Public Health, Baltimore, Maryland, USA;
\(^3\)Johns Hopkins Medicine, Baltimore, Maryland, USA

11:26 am  Clinical Outcomes of Locked Plating of Distal Femoral Fractures
Martin F. Hoffman, MD\(^1\); Clifford B. Jones, MD\(^3\);
Debra L. Sietsma, PhD\(^3\);
Scott J. Koenig, MD\(^1\); Paul Tornetta, III, MD\(^1\);
Benjamin T. Maatman, BS\(^3\);
\(^1\)Grand Rapids Medical Education Partners, Grand Rapids, Michigan, USA;
\(^2\)Orthopaedic Associates of Michigan; Michigan State University, Grand Rapids, Michigan, USA;
\(^3\)Boston University Medical Center, Boston, Massachusetts, USA;
\(^4\)Wayne State University, Detroit, Michigan, USA

11:32 am  Locking Plate Fixation versus Cephalomedullary Nailing of Unstable Proximal Femur Fractures: A Comparative Cohort Study
Philipp N. Streubel, MD;
Michael J. Moustoukas, MD;
Aaron M. Perdue, MD; Philip J. Kregor, MD;
William T. Obremskey, MD;
Vanderbilt Medical Center, Nashville, Tennessee, USA

11:38 am  Discussion

11:43 am  Post–Splinting Xrays of Minimally Displaced Fractures:  Good Medicine or Medicolegal?
Sonia Chaudhry, MD; Edward M. DelSole, BS\(^1\);
Kenneth A. Egol, MD;
NYU Hospital for Joint Diseases, New York, New York, USA

11:49 am  Beyond The Five Second Rule: What To Do with Drop–Contaminated Bone?
Chad A. Krueger, MD\(^1\); Daniel J. Stinner, MD\(^1\);
Brendan D. Masini, MD\(^1\);
Joseph C. Wenke, PhD\(^1\); Joseph R. Hsu, MD\(^2\);
\(^1\)Brooke Army Medical Center, San Antonio, Texas, USA;
\(^2\)United States Army Institute of Surgical Research, Fort Sam Houston, Texas, USA

12:00 – 1:00 pm  Lunch
Visit Scientific Posters
(Marriott Rivercenter Grand Ballroom Foyer)

LAST OPPORTUNITY TO VISIT Technical Exhibits
(Marriott Rivercenter Grand Ballroom G - J)
1:00 – 2:30 pm

**Concurrent Sessions**  
**Skills Labs and Mini Symposia**

**CHOOSE TO ATTEND ONE:**
Increase your chances for your first choice, register EARLY on-line at www.ota.org.  
*Tickets are required.*

**Mini Symposia**  
**Marriott Riverwalk Hotel**

**Complex Trauma from Combat – Reconstruction, Rehab and Orthotics (#S6)**  
**Moderators:** COL Romney C. Andersen, MD and LTC Joseph R. Hsu, MD  
**Faculty:**  
Ryan Blanck, CPO; CDR Mark Fleming, MD; Lt COL Wade Gordon, MD; LTC Kevin Kirk, MD and Johnny C. Owens, MPT

**Making Medicine’s Voice Heard: Media Relations and Political Advocacy (#S7)**  
**Moderator:** Jeffrey M. Smith, MD  
**Faculty:** Patricia Clark and Andrew N. Pollak, MD

**2 Minutes/ 2 Slides: Upper Extremity Technical Tips and Tricks (#S8)**  
**Moderator:** Pierre Guy, MD, MBA  
**Faculty:** Edward J. Harvey, MD; Michael D. McKee, MD; David C. Ring, MD and Paul Tornetta, III, MD

**Fundamentals in Trauma II (#S9)**  
**Moderator:** Robert F. Ostrum, MD  
**Faculty:** Frank A. Liporace, MD; Thomas F. Varecka, MD and J. Tracy Watson, MD

**Skills Labs**  
**Henry B. Gonzalez Convention Center**

**IM Fixation of Proximal Tibial Fractures (#S10)**  
**Moderator:** Mark A. Lee, MD  
**Faculty:** Christopher Finkemeier, MD; Jason W. Roberts, MD and Brad Yoo, MD

**IM Fixation of Proximal Femur Fractures (#S11)**  
**Moderator:** Kenneth J. Koval, MD  
**Faculty:** Michael Charlton, MD; Kenneth A. Egol, MD; Joshua Langford, MD; Hassan R. Mir, MD and Mark Munro, MD

**ORIF Distal Femur Fractures (#S12)**  
**Moderator:** Steven J. Morgan, MD  
**Faculty:** Michael S. Sirkin, MD and Bruce H. Ziran, MD

2:30 – 3:00 pm

**John Border Memorial Lecture**  
**(Marriott Rivercenter Grand Ballroom)**

**Introduction**  
Andrew N. Pollak, MD, OTA President

3:00 pm  
**Break**  
**Visit Scientific Posters**  
**(Marriott Rivercenter Grand Ballroom Foyer)**
3:30 – 4:50 pm

**Scientific Session VII**

**Reconstruction, Upper Extremity, Wrist & Hand**

Moderators: Michael J. Gardner, MD
Robert V. O'Toole, MD

3:30 pm

**Paper #82**

The Fate of Patients After a Staged Nonunion Procedure for Known Infection

Paul Tornetta, III, MD; Kevin Dale, MD; Clifford B. Jones, MD; Brian H. Mullis, MD;
Kenneth A. Ego1, MD; Elliot Robinson, MD; Michael J. Bosse, MD; Andrew H. Schmidt, MD;
1Boston University School of Medicine, Boston, Massachusetts, USA
2Orthopaedic Associates of Michigan, Michigan State University, Grand Rapids, Michigan, USA
3Indiana University, Indianapolis, Indiana, USA;
4NYU Hospital for Joint Diseases, New York, New York, USA;
5Carolinas Medical Center, Charlotte, North Carolina, USA;
6Hennepin County Medical Center, Minneapolis, Minnesota, USA

3:36 pm

**Paper #83**

Does BMP–2 Increase the Incidence of Peri–Operative Wound Complications or Re–Operation?

Daniel Steven Chan, MD; Joshua Garland, MD; Anthony Infante, MD;
Roy Sanders, MD; H. Claude Sagi, MD;
1Florida Orthopaedic Institute, Tampa, Florida, USA;
2Naval Medical Center, Portsmouth, Virginia, USA

3:42 pm

**Discussion**

3:47 pm

**Paper #84**

Improved Outcome Following Primary Operative Fixation of Displaced Midshaft Fractures of the Clavicle Persists at Two Years Post–Injury: Implications for Clinical Treatment, Future Trials, and Economic Analysis

Laura A. Schemitsch; Emil H. Schemitsch, MD; Christian Veillette, MD; Olivia Y. Cheng, MD;
Michael D. McKee, MD;
St. Michael's Hospital, Toronto, Ontario, Canada

3:53 pm

**Paper #85**

Acute versus Late Intervention in Clavicle Fractures

Ben Ollivere, MD; Avishek Das; Kathleen Elliott; Phillip Johnston, MD;
Graham Tytherleigh–Strong;
Lee van Rensburg;
Addenbrooke's Hospital, Cambridge University NHS Trust, Eye, Suffolk, United Kingdom

3:59 pm

**Paper #86**

Clinical and Financial Comparison of Operative and Non–Operative Treatment of Displaced Clavicle Fractures

Peter Althausen, MD; Steven Shannon, BS; Timothy J. O'Mara, MD; Timothy J. Bray, MD;
1Reno Orthopaedic Clinic, Reno, Nevada, USA;
2University of Nevada School of Medicine, Reno, Nevada, USA

4:05 pm

**Discussion**

4:10 pm

**Paper #87**

Determining the Efficacy of Screw and Washer Fixation as a Method for Securing an Olecranon Osteotomy Following the Treatment of Intrarticular Distal Humerus Fractures

Barrett I. Woods, MD; Andrew Evans, MD;
Robert Hartman, MD; Peter Siska, MD;
Gary Gruen, MD; Ivan Tarkin, MD;
University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA

4:16 pm

**Paper #88**

Simple Dislocation of the Elbow is Associated with Good Long Term Patient Reported Outcomes but Persisting Pain and Stiffness are Common

Scott D. Middleton, MD; Paul J. Jenkins, MD; Margaret M. McQueen, MD;
Charles M. Court–Brown, MD;
Orthopaedic Trauma Unit, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom

4:22 pm

**Paper #89**

Predictors of Fracture Following Suspected Injury to the Scaphoid

Andrew D. Duckworth; Geert A. Buijze, MD; Stuart A. Aitken; Matthew Moran;
Alasdair Gray, MD;
1Edinburgh Orthopaedic Trauma Unit, Royal Infirmary of Edinburgh, Edinburgh, Scotland, United Kingdom;
2Hand and Upper Extremity Service, Massachusetts General Hospital, Boston, Massachusetts, USA;
3Emergency Dept., Royal Infirmary of Edinburgh, Edinburgh, Scotland, United Kingdom

Pre-registration deadline September 12 — Registration form on page 38 of Booklet.
Saturday, October 15, 2011, continued

4:28 pm  Discussion

4:33 pm  A Prospective Randomized Controlled Trial Comparing Occupational Therapy with Independent Exercises After Volar Plate Fixation of a Fracture of the Distal Radius Sebastiaan Sour, MD; Geert Buijze, MD; Massachusetts General Hospital, Boston, Massachusetts, USA

4:39 pm  A Randomised Prospective Clinical Trial Comparing Treatment of Distal Radius Fractures with Volar Locking Plate and Conventional Percutaneous Methods Alexia Karantana, MD; Queens Medical Centre, Nottingham University Hospitals NHS Trust, Nottingham, United Kingdom

4:45 pm  Discussion

4:50 pm  Closing Remarks and Adjourn

Please share the following excellent educational opportunity with residents.


Co-chairs: Laura J. Prokuski, MD Michael T. Archdeacon, MD

It would be difficult to match the collective knowledge, experience, and commitment to teaching of the outstanding faculty!
Visit www.ota.org for preliminary program and online registration.

Laura J. Prokuski, MD

Additional OTA Educational Opportunities

OTA Membership Application Deadline
(Sponsorship forms available at the Membership Booth at the Convention Center - Apply Online.)
November 1, 2011

Advanced Trauma Techniques Course for Residents* (PGY 4-5)
January 12 - 15, 2012
Florida (location tentative)

OTA Specialty Day
Saturday, February 11, 2012
San Francisco, California

OTA Comprehensive Fracture Course for Residents 2.0*
March 2012 (dates TBD)
Chicagoland, IL (tentative)

11th Annual AAOS/OTA Joint Trauma Update Course
April 12 - 14, 2012
Orlando, Florida

Orthopaedic Trauma Fellows Course* (Registration limited to current trauma fellows.)
March 15 - 18, 2012
Boston, Massachusetts

*Scholarships will be available.
Pre-registration deadline September 12, 2011

Disclaimer
The material presented at the 27th 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.

CME Credit
The Orthopaedic Trauma Association and the American Academy of Orthopaedic Surgeons jointly sponsor the scientific presentations at this 27th Annual Meeting.

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship 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 educational activity for a maximum of 20+ AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

The Basic Science Focus Forum offers a maximum of 10.25 AMA PRA Category 1 Credits™. The Masters Level Trauma Coding Course offers a maximum of 6.5 AMA PRA Category 1 Credits™. The International Orthopaedic Trauma Care Forum offers a maximum of 8 AMA PRA Category 1 Credits™ and The Young Practitioners Forum offers a maximum of 4.5 AMA PRA Category 1 Credits™.
Accommodations

Deadline for reservations: September 9, 2011

The OTA has secured discounted room rates at the Marriott Rivercenter and Marriott Riverwalk Hotels. Reservations should be made no later than September 9th.

The Annual Meeting will take place at the Marriott Rivercenter and pre-meeting events will take place at the Marriott Riverwalk.

Rates: Marriott Rivercenter and Marriott Riverwalk –

- Single/Double = $234.00 + tax

- Book your hotel reservations through Conference Direct, the OTA's official housing company. Follow the hotel reservation link on the OTA website - http://www.ota.org, for easy, online booking. If you have any questions about your hotel reservations, you can reach Conference Direct at 877-632-8165. Monday - Friday, 8:30 am - 5:30 pm EST or via email: OTA@conferencedirect.com.

- Hotel rooms may sell out quickly - don’t delay!

Airline Reservations

Airlines

Special meeting discounts available through United Airlines can be obtained by calling 1-800-521-4041, mention code 549KD or by calling CorpTrav Management Group at 1-800-318-3847. CorpTrav is one of the largest independent global travel management firms, proud to service some of the world's most prestigious organizations since opening their doors in 1976. CorpTrav Management Group will append any discount related to your meeting, as applicable.

Service Fees:

- $32 USD domestic
  - Booking with a professional travel agent
    (via phone or email)
  - In addition to your travel reservations, your service fee provides you with:
    - 24/7/365 travel assistance with a live travel agent
    - $200,000 USD in flight insurance

About San Antonio

San Antonio's old world Spanish flair and blend of cultures make it one of America's most picturesque cities. Centrally located in the heart of Texas, San Antonio offers a blend of charm, vibrancy and color. Its sights, sounds, tastes and past captivate, while friendly people, the relaxing river and a superb climate entice visitors to come back for more.

Average high temp for October is 81° with a low of 59°.

Within walking distance of the meeting is the San Antonio River Walk. Winding along the San Antonio River one story below the bustling street level, restaurants, galleries and shops line the banks of the downtown River Walk. The north and south banks of the River are less commercial, boasting lush landscapes, quaint pathways, tinkling waterfalls, quiet pools, outdoor art and relaxing outdoor patios.

Recently named one of “America’s Top Ten Historical Sites” by The History Channel, 2011 marks the 175th anniversary of the Battle of the Alamo. On October 15 at the Alamo Plaza, catch a glimpse of what life was like at the Battle of the Alamo as history re-enactors don garb, shoot muskets, cook and perform daily tasks from 1836. From its important role in Texas independence to its fusion of cultures, San Antonio is a truly unique and authentic destination.

For more information, go to www.visitsanantonio.com.

Transportation

Transportation To/From Airports:

San Antonio International Airport (SAT) -

The airport is approximately 8.5 miles from the downtown business district/hotel with a travel time of about 15 minutes.

Driving Directions:

Take 281 South to Commerce St Exit. Make a right at the light (Commerce) and continue down 1 block; hotel is on the right-hand side, at the corner of Bowie and Commerce.

Alternate Transportation:

Shuttle service is available. Look for the Shuttle Service kiosks in both terminals near baggage claim or book your trip in advance at http://www.saairportshuttle.com; fee: $18 USD (one way); reservations recommended. Estimated taxi fare: $22.00 USD (one way).

Rental Car / Hotel Parking:

Since the hotel is conveniently located within walking distance to many restaurants, shopping and entertainment venues and car rental is not recommended. If you have decided to rent a car or will be driving to San Antonio, the following estimated rates apply for hotel parking: Self Parking $25/night, Valet Parking $33/night.
Poster Presentations

Annual Meeting Scientific Posters will be available for viewing at all times during the meeting beginning at 11:00 am on Thursday until 5:00 pm on Saturday in the Marriott Rivercenter Grand Ballroom Foyer. Peer reviewed abstracts for both podium and poster presentations will be included in the final program book.

Registration Information

• Register on-line at www.ota.org using your OTA Customer ID #. Follow directions online to obtain or search for your OTA Customer ID #.

• Postmarked registrations after September 12 will not be processed; on-site registrations will require an additional $100 late fee. On-line registrations prior to September 19 will not incur the $100 late fee.

• Ensure your space in mini symposia, labs, and case presentations. REGISTER TODAY. Avoid on-site delays and an additional $100 late registration fee.

• All pre-registrations will receive confirmation by e-mail. Badges will be mailed to those registered by September 12.

• The pre-registration form may be photocopied as needed.

Skills Labs, Mini Symposia and Case Presentations

• Ensure your space in Skills Labs, Mini Symposia, and Case Presentations - register early. Tickets are required.

• Skills Labs, Mini Symposia, and Case Presentations fill early and may be unavailable to on-site registrants.

• Choose the Friday and Saturday Skills Laboratory Sessions, Mini Symposia and Case Presentation Sessions in order of your preference.

• Bring radiographs/x-rays of problem cases for discussion with OTA members.

On-site Registration

• Registrations postmarked after September 12 or on-line registrations after September 19 will be accepted on-site plus an additional $100 late fee.

• On-site Registration will be available as follows:
  Marriott Riverwalk Alamo Ballroom Foyer (BSFF, Coding, Young Practitioners & Own the Bone)
  Tuesday: 4:00 PM - 6:00 PM
  Wednesday: 6:30 AM - 5:00 PM
  Marriott Rivercenter Grand Ballroom Foyer (Annual Meeting and International Forum)
  Tuesday: 4:00 PM - 6:00 PM
  Wednesday: 5:00 PM - 7:00 PM
  Thursday, Friday & Saturday: 6:30 AM - 5:00 PM

• Exhibitors must register through the OTA office.

Payment

• All meeting registrations must be accompanied by payment.

• Indicate payment – Visa, MasterCard or AMEX with cardholder name, number, expiration date and signature and FAX form directly to: (847)823-0536

• Check made payable to OTA and drawn from a US bank in US dollars.

• Registrations sent via Courier must be sent to the OTA staff office: 6300 N. River Road, Suite 727, Rosemont, IL 60018.

Cancellations & Refunds

NO REFUNDS AFTER September 27, 2011

• Submit cancellation in writing to OTA office via fax: (847)823-0536 or email: OTA@aaos.org

• Refunds less a $100.00 processing fee per registration will be made in a timely basis by OTA after the close of the OTA Annual Meeting.

Cameras may not be used in any portion of the meeting.

Open for detailed descriptions of Industry Symposia, Case Presentations, Skills Labs and Mini Symposia.
Industry Symposia, Case Presentations, Skills Labs and Mini Symposia Descriptions

Thursday, October 13, 2011
11:15 AM - 12:30 PM

Industry Symposia

See our corporate sponsors’ new products and/or surgical equipment demonstrations in between the Basic Science Focus Forum and the start of the Annual Meeting.

BioMimetic Therapeutics, Inc. (#IS-1)

Intelligent Orthopaedics Limited (#IS-2)
“Plateau, shaft or pilon - a novel approach to reducing unstable fractures.”

Sonoma Orthopaedics (#IS-3)
“Innovative rotator cuff sparring, flexible nail for midshaft Humeral shaft fractures.”

Zimmer, Inc. (#IS-4)

RTI Biologics, Inc. (#IS-5)
“Biologic Options for your Trauma Practice-Fracture Management and Joint Resurfacing.”

Friday, October 14, 2011
6:45 - 7:45 AM

Case Presentations

Orthopaedic Trauma Coding Update (#F1)
This session will review the relevant updates to CPT and ICD coding for orthopaedic trauma. The basic principles of surgical coding using case based examples will be presented. Participants are encouraged to bring cases for discussion. (Creevy)

Management of Pelvic and Acetabulum Fractures (#F2)
Cases will be presented that highlight the initial management, operative treatment options, and expected outcomes of pelvic and acetabulum fractures. An expert panel will provide varying opinions on the management of these complex injuries. (Tornetta)

Challenging Hip Fractures-When the Fracture Table Doesn’t Work (#F3)
Hip fractures can frequently be challenging cases. Often the only reduction tool used is a fracture traction table. This interactive case based session will cover reduction strategies when traction alone does not achieve adequate reduction. Cases will be selected to discuss surgical approaches, reduction aids, technical tricks, fixation strategies, and implant selection. (Mirza)

New Approaches to Difficult Tibial Plateau Fractures (#F4)
The goal of this case presentation will be to show alternative surgical strategies for difficult tibial plateau fractures. We will use cases to demonstrate the management of bicondylar fractures and particularly difficult fractures involving the posterior tibial condyles, both medially and laterally. This will involve discussion using posterior approaches to the knee in isolation with additional approaches as specific fracture patterns indicate. The goal will be to have the participants take home distinct, technical strategies and tactics that will allow them to improve the reduction and fixation of these difficult tibial plateau fractures. (Templeman)

Treatment of Clavicle Shaft Fractures: Straightforward, Right? (#F5)
There is an emerging dichotomy between historical and currently developing treatment philosophies for clavicle fractures. Through the use of case presentations, this session will explore the rationale for and evidence behind treatment options. (Ahn)
Friday, October 14, 2011

1:00 - 2:30 PM

Skills Labs, continued

**ORIF Distal Radius Fractures (#F10)**
This lab will provide an opportunity to hone your volar plating techniques. Experienced and renowned surgeons will be there to share their expertise, tips and tricks. *(McQueen)*

**ORIF Periprosthetic Fractures of the Femur (#F11)**
This lab will cover the adjunctive methods for reduction and fixation of periprosthetic fractures of the femur. We will focus on osteosynthesis rather than revision arthroplasty. In addition to synthetic bone lab, use of adjunctive biologics and post-operative protocol will be discussed. *(Haidukewych)*

**ORIF Distal Tibia and Fibula Fractures (#F12)**
This lab will include hands-on instruction by our panel of experts on the open reduction and internal fixation of distal tibia and fibula fractures with plate and screws in a synthetic bone model. Topics including timing, approach, and post-op care will also be covered. *(Nascone)*

**SIGN Nailing (#F13)**
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 65,000 fractures of long bones. The goal of SIGN nail sawbones skills lab is to discuss techniques for stabilization of tibia, femur and humerus fractures. Table instructors will include surgeons who are OTA-SIGN scholars. *(Zirkle)*

1:00 - 2:30 PM

Mini Symposia

**The “Not So Simple” Ankle Fracture – Avoiding Problems and Pitfalls to Improve Patient Outcome (#F6)**
Ankle fractures are one of the most common injuries that orthopaedic surgeons treat. Management of certain ankle fractures can be especially difficult or problematic. Topics include the diabetic patient, severe osteoporosis, syndesmotic injuries, posterior malleolus fractures, and techniques to improve outcome. *(Hak)*

**Amputations in Trauma: Getting the Most Out of Your Limb (#F7)**
Controversy still abounds regarding the appropriate management of the traumatic amputee. Combining experiences of military and civilian care of the traumatic amputee will enhance the care of these patients. *(Dougherty & Cannada)*

**Preoperative Nightmares – What is the Evidence? (#F8)**
Several medical scenarios may threaten timely orthopaedic surgery. These scenarios will be discussed and the evidence-based optimal management will be reviewed. *(Gorczyca)*

**Fundamentals in Trauma I (#F9)**
An increasing number of orthopaedic surgeons are called upon to treat emergent orthopaedic problems, most of them related to orthopaedic trauma. Fundamentals of Orthopaedic Trauma I and II are mini-symposia specifically designed for the general orthopaedic surgeon who has not completed a fellowship in orthopaedic trauma who is seeking a higher level of proficiency in the care of orthopaedic trauma patients. These mini-symposia will provide a broader background for the nonspecialist, and will not assume extensive prior knowledge of advanced fracture care. The two course offerings are complementary and are designed to bring the general orthopaedic surgeon up to date on the most common aspects of upper and lower extremity emergent trauma and fracture care. *(Ostrum)*

6:45 - 7:45 AM

**Case Presentations**

**Proximal Humerus Fractures – Current Concepts (#S1)**
Proximal humeral fractures can be difficult to reduce, and to obtain and maintain stable fixation to achieve a good functional outcome. This session will highlight newer surgical approaches, reduction techniques, and implant and augmentation applications to minimize complications. *(Gardner)*

**Practical Issues in Clinical Research (#S2)**
This seminar will review key issues in the conduct of clinical research, including planning, execution, and data reporting. *(Miclau & Bhandari)*

Saturday, October 15, 2011

6:45 - 7:45 AM

**Skills Labs**

**IM Fixation of Proximal Tibial Fractures (#F10)**
This lab will cover options for intra-medullary fixation of proximal tibial metaphyseal fractures, including flexed and extended position, and supra-patellar nailing. Our panel of experts will review adjunctive techniques for obtaining reduction, including blocking screws, reduction plates, distractors and positioning. *(Lee)*
Sat., October 15, 2011, cont'd

1:00 - 2:30 PM

Mini Symposia, cont'd

facing in medicine today. Never has it been more important for orthopaedic surgeons to be visible and to speak up in the media and before our legislators. This mini-symposium is designed to give you an introduction to working with the tools you need to develop and tell your and your patient’s story. (Smith)

2 Minutes/2 Slides: Upper Extremity Technical Tips and Tricks (#S8)
Brief presentations consisting of two slides over two minutes will highlight diagnostic pearls and surgical tricks followed by a short discussion. (Guy)

Fundamentals in Trauma II (#S9)
An increasing number of orthopaedic surgeons are called upon to treat emergent orthopaedic problems, most of them related to orthopaedic trauma. Fundamentals of Orthopaedic Trauma I and II are mini-symposia specifically designed for the general orthopaedic surgeon who has not completed a fellowship in orthopaedic trauma who is seeking a higher level of proficiency in the care of orthopaedic trauma patients. These mini-symposia will provide a broader background for the nonspecialist, and will not assume extensive prior knowledge of advanced fracture care. The two course offerings are complementary and are designed to bring the general orthopaedic surgeon up to date on the most common aspects of upper and lower extremity emergent trauma and fracture care. (Ostrum)

Skills Labs

IM Fixation of Proximal Tibial Fractures (#S10)
This lab will cover options for intra-medullary fixation of proximal tibial metaphyseal fractures, including flexed and extended position, and supra-patellar nailing. Our panel of experts will review adjunctive techniques for obtaining reduction, including blocking screws, reduction plates, distractors and positioning. (Lee)

IM Fixation of Proximal Femur Fractures (#S11)
This lab will outline the indication for intramedullary nailing of trochanteric fractures. It will instruct participants on the use of trochanteric nails for fixation of these fractures. Proctors with expertise in intramedullary rodding will help participants to perfect their expertise in the set up, positioning and use of trochanteric nails. (Koval)

ORIF Distal Femur Fractures (#S12)
This lab will review the indications and surgical techniques for obtaining reduction and achieving fixation of intra-articular distal femur fractures. Focus will include articular reduction and axial alignment as executed in a fractured synthetic model. (Morgan)

6:45 - 7:45 AM

Case Presentations, cont'd

Evaluation and Management of Complex Pediatric Elbow Fractures (#S3)
A didactic and case-based review of the complex variations of commonly presenting pediatric elbow fractures. Interactive discussion will cover the evaluation and pearls of managing type 3 supracondylar, radial/ head neck, lateral condyle, medial epicondyle and acute/delayed presenting Monteggia fractures. (Podeszwa)

Pelvic Ring Injuries: Surgical Treatment of Instability (#S4)
This case based discussion of pelvic ring injuries will emphasize recognition of important injury patterns and features, diagnosis of ring instability, and treatment options. Interactive discussion will emphasize surgical treatment strategies, with emphasis on percutaneous and other less invasive means of pelvic stabilization. Diagnostic insight, treatment strategies, and technical pearls will abound. Attendees should plan to bring cases for discussion. (Krieg & Routt)

Scapula Fracture Injuries and Treatment (#S5)
This case presentation will review injuries associated with scapula factors and scapula anatomy and fracture displacement. We will discuss natural history of non-operative results of scapula fractures as well as techniques of fracture fixation and outcomes of fixation. We will also review case studies with audience discussion. (Obremskey)

1:00 - 2:30 PM

Mini Symposia

Complex Trauma from Combat – Reconstruction, Rehab and Orthotics (#S6)
The US Military has been at war for a decade. Over these past 10 years, much has been learned about reconstructing these devastating injuries as well as rehabilitation and orthotics for both limb salvage and amputees. Reconstructions have focused on returning function and bracing, while a patient who sustains a traumatic or has an elective amputation focus is directed toward prosthesis and function. In either case, these service members tend to have significant disability and long term challenges. (Andersen & Hsu)

Making Medicine’s Voice Heard: Media Relations and Political Advocacy (#S7)
Not since the inception of Medicare in the 1960’s has our health care system undergone the major transformation we are facing in medicine today. Never has it been more important
Meeting at Marriott Rivercenter
Pre-Meeting Events at Marriott Riverwalk & Henry B. Gonzalez Convention Center
San Antonio, Texas, USA

October 12 - 15, 2011
OTA Fax: 847-823-0536

2011 Annual Meeting
REGISTRATION FORM

Page dimension: 612.0x792.0

(Please Print)
Name
Address
City __________________ State __________ Country _________ Zip __________
Phone (______) __________________ Fax (______) __________________ E-mail ___________________

ANNUAL MEETING REGISTRATION FEES - U.S. Funds
OTA Member (includes Candidate Members in their Residency) $ 125.00 USD
OTA International or Candidate (Post-Fellowship) Member $ 325.00 USD
Non-member $ 725.00 USD
Medical Resident Non-member or Allied Health (attach required letter of verification) $ 425.00 USD

All company representatives must use Exhibitor Registration Form (available from OTA staff).

Wednesday, October 12 Pre-Meeting Opportunities
MASTERS LEVEL TRAUMA CODING COURSE I will attend $ 200.00
INTERNATIONAL TRAUMA CARE FORUM I will attend $ 50.00
BASIC SCIENCE FOCUS FORUM I will attend $ 250.00
"OWN THE BONE" PROGRAM I will attend $ 0.00

Thursday, October 13
YOUNG PRACTITIONERS FORUM I will attend $ 50.00
WELCOME RECEPTION (Thursday) - Registrant I will attend $ 0.00 (on site $30)
Guest Reception Ticket(s) # of Guests: _______ @ $65.00 USD ea = $ ________

Friday, October 14
WOMEN IN ORTHOPAEDIC TRAUMA LUNCHEON I will attend $ 0.00 (on site $30)
MILITARY RECEPTION I will attend $ 0.00

Industry Symposia, Mini Symposia, Skills Labs, or Case Presentations

Thursday, October 13
Thursday 11:15 am: Industry Symposia (#IS-1 – IS-5) 1st Choice # __________
2nd Choice # __________

Friday, October 14
Friday 6:45 am: Case Presentations (#F-1 – F-5) 1st Choice # __________
2nd Choice # __________

Concurrent Sessions: LIST TOP TWO CHOICES 1st Choice # __________
Friday 1:00 pm: Mini Symposia or Skills Labs (#F-6 – F-13) 2nd Choice # __________

Saturday, October 15
Saturday 6:45 am: Case Presentations (#S-1 – S-5) 1st Choice # __________
2nd Choice # __________

Concurrent Sessions: LIST TOP TWO CHOICES 1st Choice # __________
Saturday 1:00 pm: Mini Symposia or Skills Labs (#S-6 – S-12) 2nd Choice # __________

☐ Check Enclosed ☐ MasterCard ☐ Visa ☐ AMEX  TOTAL FEES: $ __________ USD
Cardholder Name: ___________________ Card Number: ___________________
Expiration: __________ Signature: ___________________ Amount: $ __________ USD

REFUNDS:
OTA office must receive written notice of cancellation by September 27, 2011 for a refund less a $100.00 USD processing fee.
Absolutely no refunds after September 27, 2011.

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

REGISTER ON-SITE AFTER SEPTEMBER 12, 2011 - AN ADDITIONAL $100 USD FEE WILL APPLY.
2011 Annual Meeting

Open for detailed descriptions of Industry Symposia, Case Presentations, Skills Labs, Mini Symposia and Registration Forms.

Thursday Industry Symposia,
Friday and Saturday early morning Case Presentations and
Friday and Saturday afternoon Mini Symposia & Skills Labs run concurrently.

Tickets are required.
Note your preference on the registration form (page 38).
These Special Sessions may be filled and unavailable to on-site registrants.
Increase your chances for first choice.
Register EARLY at www.ota.org.
2011 Annual Meeting Checklist

Have you...

❑ Completed the Meeting Registration Form (page 38)?
❑ Indicated your preferences for Break-Out Sessions (page 38)?
❑ Included your Payment with the Registration Form?
❑ Made your hotel reservation with the Marriott Riverwalk or Marriott Rivercenter Hotels?
  ALL hotel reservations need to be made online thru ota@conferencedirect.com.
  Use the link on www.ota.org.

Secure on-line registration at www.ota.org

OR

Fax Registration Forms with Credit Card payment to:
  Fax: (847) 823-0536

OR

Mail Registration with USD Check Payment to:

ORTHOPAEDIC
TRAUMA
ASSOCIATION

Orthopaedic Trauma Association
6664 Eagle Way
Chicago, IL 60678-1066 USA

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

Registration faxed or post-marked by September 12, 2011.
Register on-line before September 19, 2011.

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

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

Member Services
Take advantage of the many OTA member services….

- **JOT** Subscription
- Fellowship Match
- Mentor Programs
- Coding and Practice Management Resources (Academic and Community)

- Meeting Discounts
- Discussion Forum and Listserv
- Career Resources

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
- Fellows
- Young Practitioners
- Mid - Senior Level Orthopaedic Surgeons

Scholarships offered for most resident and fellows programs.

Research

- Research Grants
- Multicenter Studies
- Trauma Registry
- Conduct and Access OTA Member Surveys

Professional Development and Leadership Opportunities

- 25+ Committees and Project Teams
- Resident and Fellow Education and Research Grants

Health Policy & Practice Management

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

OTA Membership Dues

<table>
<thead>
<tr>
<th>Membership Type</th>
<th>Dues</th>
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<tbody>
<tr>
<td>Active/Research/Senior Membership</td>
<td>$600</td>
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<tr>
<td>Community/Associate</td>
<td>$500</td>
</tr>
<tr>
<td>Candidate (Resident/Fellow)</td>
<td>$50**</td>
</tr>
<tr>
<td>International</td>
<td>$100**</td>
</tr>
</tbody>
</table>

** does not include JOT subscription

OTA Membership Application Deadline: November 1

Apply today at www.OTA.org.
Register Now for the
2011 OTA Annual Meeting
at www.ota.org.
Pre-registration Deadline: September 9, 2011
Hotel Deadline: September 12, 2011

Bone and Joint
Decade

2002 - USA - 2011

6300 N. River Road, Suite 727
Rosemont, IL 60018-4226 USA

Telephone: 1-800-223-6589
Fax: 1-847-692-7077
E-mail: info@ota.org
Website: www.ota.org

OA

Orthopedic Trauma Association