Orthopaedic Trauma Association

Preliminary Program

October 7 - 10, 2009
Manchester Grand Hyatt Hotel
San Diego, California, USA

David C. Templeman, MD, President
William M. Ricci, MD, Program Chair
James A. Goulet MD, Program Co-Chair
CDR Michael T. Mazurek, MD and Jeffrey M. Smith, MD, Local Hosts

Pre-Meeting Courses
October 7 - 8, 2009

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

Disaster Management and Emergency Preparedness Course
Christopher T. Born, MD, Chair
8 AMA PRA Category I Credits™

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

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

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

www.ota.org

CME Credit Hours: 19+
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 25th Annual Meeting of the OTA will provide all registrants the opportunity to witness presentations of peer-reviewed original basic science and clinical research papers, posters and symposia that present current concepts for topics of general interest. A multitude of mini-symposia, bio-skills labs, informal case presentations, and technical exhibits, each with specific focus, will enable a customized educational experience.

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

After attending the Annual Meeting of the OTA, participants will be able to:
• Understand the attributes of various available bone grafts and bone graft substitutes and their relative indications for use;
• Understand the currently available modalities to evaluate fracture healing and their respective limitations;
• Identify injuries that meet emergent, urgent, and non-urgent criteria for operative intervention;
• Improve their technical ability to treat both simple and complex fractures;
• Incorporate effective strategies for infection prophylaxis and treatment into their daily practice;
• Prepare for potential mass casualty situations;
• Discuss the most up-to-date clinical and basic science advancements related to orthopaedic trauma.

2009 Annual Meeting Program Committee
William M. Ricci, MD - Program Chairman
James A. Goulet, MD - Program Co-Chairman
Committee: Victor A. de Ridder, MD, PhD; Shepard R. Hurwitz, MD; Theodore Miclau, III, MD; Peter J. O'Brien, MD; William T. Obremskey, MD; Laura J. Prokuski, MD and John T. Ruth, MD
CDR Michael T. Mazurek, MD and Jeffrey M. Smith, MD - Local Hosts
Dear Colleague:

Please accept our invitation to the 25th Annual Meeting of the Orthopaedic Trauma Association (OTA) to be held in San Diego, CA from October 7 – 10, 2009. The meeting will provide the most comprehensive and up-to-date program related to treatment of musculoskeletal injury available anywhere. A diverse spectrum of topics and the opportunity to attend a wide range of sessions including scientific presentations of original research, didactic lectures, small group discussions, and hands-on labs, provide learning opportunities that will meet needs of all musculoskeletal health care professionals.

This year’s meeting will highlight main symposia on topics with broad appeal; current concepts on bone grafts and bone graft substitutes, the science and practice of evaluating fracture healing, and distinguishing injuries that meet criteria for emergent surgery from those that do not. Break-out sessions will allow customization of the meeting experience to meet individual needs and mini-symposia, case presentations, and skills labs will include other general interest as well as more focused topics.

The Scientific Program will include the most relevant and scientifically sound research. Sixty-four podium presentations and 115 posters were selected by the Program Committee from nearly 600 abstract submissions. The Basic Science Focus Forum (BSFF), chaired by Theodore Miclau, III, MD, is one of five pre-meeting events. The BSFF is a 1 ½ day event beginning Wednesday October 7th that will provide an additional in-depth program designed to augment and expand upon the science presented and discussed at the main meeting.

Three single day pre-meeting events will also take place on Wednesday October 7th. The ever popular Masters Coding Course will once again be organized by Karen Zupko Associates and the Disaster Management and Emergency Preparedness course will be under the direction of Christopher T. Born, MD. A new addition for the 25th Anniversary meeting is the International Forum where advances and unique aspects of orthopaedic care in emerging regions will be presented and discussed. The half-day Young Practitioners Forum led by Lisa K. 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.

Also new this year, the OTA is happy to collaborate with the Orthopaedic Rehabilitation Association (ORA) who will be holding their annual meeting concurrently. Symposia on Heterotopic Ossification and Amputation Management will be jointly sponsored by the OTA and ORA.

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 by world class faculty and experts. We truly believe that anyone involved in the field of musculoskeletal trauma may benefit from what we hope will be a particularly special 25th Anniversary Edition of the OTA Annual Meeting. Please consider joining us in beautiful San Diego, CA.

Sincerely,

William M. Ricci, MD, Program Chair

James A. Goulet, MD, Program Co-Chair
Dear OTA Members and Orthopaedic Colleagues,

We are very excited to host all of you for the 25th Annual OTA Meeting in San Diego, California. The meeting will be at the Manchester Grand Hyatt Hotel at the south end of the Gaslamp district, which is very conveniently located for many local restaurants, activities, and the beautiful view of San Diego bay. The attached marina is home to the famous America’s Cup Stars and Stripes. While we look forward to an especially good meeting for sharing research, education and our most recent clinical stories with our colleagues, we hope you will find the time to take advantage of beautiful San Diego before, during, or after the annual meeting. The last regular season baseball series with the San Diego Padres versus the San Francisco Giants is October 3-5, 2009 at Petco Park within walking distance of the hotel. The Catalina Island Jazz Trax Festival is the first three weekends of October, and the 1.5 hour ferry across at Dana Point is just 65 miles north of San Diego. The family will of course enjoy the world famous San Diego Zoo, Sea World, and the Children’s Museum (very close to the Hyatt), not to mention the many beaches and parks.

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

With many of the origins of trauma care linked to lessons learned on the battlefield, it is fitting that this meeting be held in a location with such a large military presence. The three county area including San Diego, Imperial and Riverside Counties are home to the largest concentration of military personnel in the country, encompassing nearly one fifth of the US Military assets stationed in the US. San Diego County itself is homeport to over 50 ships including two aircraft carriers and, the First Marine Expeditionary Force at Camp Pendleton, arguably the greatest fighting force ever known. The Naval Medical Center San Diego is the largest military treatment facility in the world and is the Combat Casualty Care Center for the west coast. The USS Midway, as well as, the Air and Space Museum in Balboa Park offer excellent opportunities for attendees and their families to learn about the role the Armed Services have played in forming our country and its place in the world today.

With so much to do and a high quality program, we look forward to a great meeting and welcome all to San Diego, California, “America’s Finest City.”

Sincerely,

CDR Michael T. Mazurek, MD & Jeffrey M. Smith, MD,
Local Hosts,
San Diego, California
2009 OTA Pre-Meeting Course
Basic Science Focus Forum
Theodore Miclau, III, MD, Chair

Attendees of this activity can earn up to 11.5 AMA PRA Category I Credits™.

Wednesday – Thursday, October 7 – 8, 2009

Target Audience
Attendees of the 25th Annual Meeting of the Orthopaedic Trauma Association, orthopaedic trauma surgeons, fellows and residents, basic scientists, bioengineers and biologists.

Forum Objectives
• Understand the latest developments in inflammation as it relates to musculoskeletal injury and repair.
• Develop a greater working knowledge of growth factors.
• Become up-to-date on the latest methods of cartilage injury and repair.
• Understand new innovations in biomechanical testing of musculoskeletal tissues.
• Learn the most current concepts in the diagnosis and treatment of musculoskeletal infection.
• Review functional outcomes measures used in clinical research on orthopaedic trauma.

Program
Wednesday, October 7, 2009

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

7:30 – 8:40 am SYMPOSIUM 1:
Inflammation and Musculoskeletal Injury and Repair
Moderators: Edward J. Harvey, MD
Richard Marsell, MD, PhD

7:30 am The Systemic Inflammatory Cascade:
Implications for Bone Healing
Hans-Christoph Pape, MD
8:10 am Anti-Inflammatories: Effects on Fracture Healing
Catherine A. Humphrey, MD
8:20 am Discussion

8:40 – 9:24 am PAPER SESSION 1:
Inflammation and Musculoskeletal Injury and Repair
Moderators: Edward J. Harvey, MD
Hans-Christoph Pape, MD

8:40 am Overview:
Edward J. Harvey, MD

8:50 am Is Indomethacin a Potential Treatment for Compartment Syndrome?
An Experimental Study
Ajay Manjoo, MD; David Sanders, MD; Abdel Lawendy, MD;
University of Western Ontario, London, Ontario, Canada

8:56 am The Genetics of Heterotopic Ossification:
Insight into the Bone Remodeling Pathway
Erika Mitchell, MD; Jeffrey Canter, MD; Patrick Norris, MD; Judith Jenkins, RN; John Morris, MD;
Vanderbilt University Medical Center, Division of Orthopaedic Trauma,
Nashville, Tennessee, USA

9:02 am Mitochondrial DAMPs Released by Femoral Reaming Activate PMN via Formyl Peptide Receptors and P44/42 MAP Kinase
Carl J. Hauser, MD, FACS; Edward K. Rodriguez; Paul T. Appleton, MD; Qin Zhang, MD; Kiyoshi Itagaki, PhD;
Beth Israel Deaconess Medical Center and Harvard Medical School; Harvard University, Boston, Massachusetts, USA

Basic Science Forum Program, cont'd

9:08 am  Enhancing Fracture Repair with Oral Leukotriene Antagonism  
*John J. Wixted, MD; Paul Fanning, PhD; Tripti Gaur, PhD; Jason Silva, MD; Shannon O’Connell, BS; Jane Lian, PhD; University of Massachusetts Medical School, Worcester, Massachusetts, USA*

9:14 am  Discussion

9:24 am  Break

9:45 – 10:55 am  SYMPOSIUM 2: Growth Factors: Beyond BMPs  
Moderators:  *Emil H. Schemitsch, MD; Peter V. Giannoudis, MD*

9:45 am  The Current State of Growth Factors in Orthopaedic Trauma  
*Peter V. Giannoudis, MD*

9:55 am  Systemic Agents for Fracture Healing: The PTH Story  
*Thomas A. Einhorn, MD*

10:05 am  Angiogenic Growth Factors: Turning on the Blood Supply for Fracture Healing  
*Kurt D. Hankenson, DVM*

10:15 am  Platelet-Derived Growth Factor: Can We Get What We Need From the Blood?  
*Gary E. Friedlaender, MD*

10:25 am  Gene Therapy for Growth Factor Delivery: Does It Have a Future in Orthopaedic Trauma?  
*Aaron Nauth, MD*

10:35 am  Discussion

10:55 – 11:39 am  PAPER SESSION 2: Growth Factors  
Moderators:  *Emil H. Schemitsch, MD; Thomas A. Einhorn, MD*

10:55 am  Overview:  *Thomas A. Einhorn, MD*

11:05 am  Quantitative Assessment of Osteogenic Gene and Protein Expression in Alternate Bone-Graft Harvesting Sites  
*Richelle Takemoto, PhD; Marc Fajardo, MD; C. Huan-Ju Liu, PhD; Thorsten Kirsch, PhD; Kenneth A. Egol, MD; NYU Hospital for Joint Diseases, New York, New York, USA*

11:11 am  Effect of the hVEGF Transfer on Endogenous VEGF mRNA Expression in a Rat Osteoblast or Fibroblast Culture Model  
*Ru Li, BS; Claire Li, BS; Michael McKee, MD; Emil Schemitsch, MD; St. Michael’s Hospital, Toronto, Ontario, Canada*

11:17 am  The Effect of BMP-2, BMP-7, PTH and PDGF on Mesenchymal Stem Cells. A Comparative Study of Proliferation and Osteogenic Differentiation  
*Ippokratis Pountos, MD; Theodora Georgouli, MD; Karen Henshaw, MD; Diane Corscaden, MD; Peter V. Giannoudis, MD; Academic Department of Trauma & Orthopaedic Surgery, School of Medicine, University of Leeds, United Kingdom*

11:23 am  Expression of the Bone Morphogenetic Proteins in Fracture Nonunion Tissue, and their Interactions with the Matrix Metalloproteinases in Vitro  
*Marc Fajardo, MD; Chuan-Ju Liu, PhD; Kenneth Egol, MD NYU Hospital for Joint Diseases, New York, New York, USA*

11:29 am  Discussion

11:39 am – 12:45 pm  Lunch

12:45 – 1:55 pm  SYMPOSIUM 3: Cartilage Injury and Repair  
Moderators:  *Joseph Borrelli, Jr., MD; Todd O. McKinley, MD*

12:45 pm  Prevention of Cell Death after Cartilage Injury: Impact on Osteoarthritis  
*Darryl D. D’Lima, MD*

1:00 pm  Post-traumatic Arthritis: In-vivo Modeling  
*Bridgette D. Furman, BS*

1:15 pm  Articular Step-Off: How Much it too Much?  
*Peter V. Giannoudis, MD*

1:30 pm  Cartilage Impact Injury: Does Mitochondrial Dysfunction Cause Chondrocyte Death?  
*Todd O. McKinley, MD*

1:45 pm  Discussion
1:55 – 2:54 pm  PAPER SESSION 3: Cartilage Injury and Repair
Moderators: Joseph Borrelli, Jr., MD
Todd O. McKinley, MD

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

2:05 pm Paper #9
P188 Is Effective in Reducing Cartilage Degeneration and Promoting Cell Survival in the Model of Acute Trauma to Human Ankle Cartilage: The Mechanism of Action
Sarvottam Bajaj, BS1; Arnavaz A. Hakimian, BS1; Lev Rappoport, MD1; Cecilia Pascual Garrido, MD1,2; Theodore Oegema, PhD1; Markus A. Wimmer, PhD1,2,3; Susan Chubinskaya, PhD1,2,4; 1Departments of Biochemistry, 2Orthopedic Surgery, 3Anatomy and 4Cell Biology and Section of Rheumatology, Rush University Medical Center, Chicago, Illinois, USA

2:11 pm Paper #10
Chondrocyte Viability Following Traumatic Joint Disruption in a Novel Closed Intraarticular Fracture Model of the Porcine Knee
Jonathon D. Backus, BS; Bridgette D. Furman, BS; Louis E. DeFrate, PhD; Poston Pritchett, BA; Farshid Guilak, PhD; Steven A. Olson, MD; Division of Orthopaedic Surgery, Duke University Medical Center, Durham, North Carolina, USA

2:17 pm Paper #11
Acute-Phase Aggravation of Chondrocyte Death in Ankle Intra-Articular Fractures
Yuki Tochigi, MD, PhD; James A. Martin, PhD; Abigail D. Lehman; Todd O. McKinley, MD; Joseph A. Buckwalter, MD; Thomas D. Brown, PhD; University of Iowa, Iowa City, Iowa, USA

2:23 pm Paper #12
Optical Coherence Tomography (OCT) Detection of Subclinical Traumatic Cartilage Injury
David Bear, MD; Michal Szczodry, MD; Scott Kramer, BS; Christian H. Coyle, PhD; Gary S. Gruen, MD; Patrick Smolinski, PhD; Constance R. Chu, MD; University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA

2:29 pm Discussion

2:39 pm Break

3:00 – 4:20 pm SYMPOSIUM 4: Recent Innovations in Biomechanical Investigations
Moderators: Loren L. Latta, PhD
Steven A. Olson, MD

3:00 pm Overview: Steven A. Olson, MD

3:10 pm Paper #13
Mechanical Advantages of Locked Plating in Short Segment Fracture Fixation
William M. Ricci, MD1; Paul Tornetta, III, MD2; Yannming Zheng, MD3; A. Whitten, MD3; Andrew H. Schmied, MD4; 1Washington University School of Medicine, St. Louis, Missouri, USA; 2Boston University School of Medicine, Boston, Massachusetts, USA; 3Smith & Nephew, Inc., Memphis, Tennessee, USA; 4Hennepin County Medical Center, Minneapolis, Minnesota, USA

3:25 pm Paper #14
Role of the Proximal Tibio-Fibular Joint and Interosseous Membrane on Lateral Tibial Plateau Fracture Stability: A Biomechanical Evaluation
Christopher T. Mudd, MD; J. Tracy Watson, MD; Gary Bledsoe, PhD; Saint Louis University School of Medicine, St. Louis, Missouri, USA

3:40 pm Discussion

4:20 – 5:38 pm PAPER SESSION 4: Biomechanics
Moderators: Loren L. Latta, PhD
Steven A. Olson, MD

4:20 pm Overview: Steven A. Olson, MD

4:30 pm Paper #13
Mechanical Advantages of Locked Plating in Short Segment Fracture Fixation
William M. Ricci, MD1; Paul Tornetta, III, MD2; Yannming Zheng, MD3; A. Whitten, MD3; Andrew H. Schmied, MD4; 1Washington University School of Medicine, St. Louis, Missouri, USA; 2Boston University School of Medicine, Boston, Massachusetts, USA; 3Smith & Nephew, Inc., Memphis, Tennessee, USA; 4Hennepin County Medical Center, Minneapolis, Minnesota, USA

4:36 pm Paper #14
Role of the Proximal Tibio-Fibular Joint and Interosseous Membrane on Lateral Tibial Plateau Fracture Stability: A Biomechanical Evaluation
Christopher T. Mudd, MD; J. Tracy Watson, MD; Gary Bledsoe, PhD; Saint Louis University School of Medicine, St. Louis, Missouri, USA

4:42 pm  The Protective Effect of Locking Screw Placement on Non-Locking Screw Insertion Torque in an Osteoporotic Supracondylar Femur Fracture Model
Michael J. Prayson, MD; David J. Dalstrom, MD; Wright State University Orthopaedics, Dayton, Ohio, USA

4:48 pm  Comparative In-Vitro Testing of Tibial Nails: Is Nail Fixation Improved with Additional Proximal Screws?
Andrew L. Freeman, MS; Matthew R. Craig, MD; Andrew H. Schmidt, MD;
1Excella Center for Bone and Joint Research and Education,
Minneapolis, Minnesota, USA; 2Orthopaedic Specialty Center,
Willow Grove, Pennsylvania, USA; 3Hennepin County Medical Center,
Minneapolis, Minnesota, USA

4:54 pm  Discussion

5:04 pm  Comparison of Patello-Femoral Contact Pressures and Forces between Supra-Patellar vs. Infra-Patellar Tibial Nailing
Tommy DiPasquale, DO; Martin K. Gelbke, MD; Florida Orthopaedic Institute,
Tampa, Florida, USA

5:10 pm  Quantifying Fracture Repair: Is It Possible and Practical?
John J. Wixted, MD; Jason Silva, MD; Christopher Baker, MD; Judith Siegel, MD;
University of Massachusetts Medical Center, Worcester, Massachusetts, USA

5:16 pm  Biomechanical Analysis of Locking Plate Fixation with Smooth Pegs Versus Threaded Screws for Proximal Humerus Fractures
Nobuyuki Yamamoto, MD; Michio Hongo, MD; Lawrence J. Berglund, BS; Kai-Nan An, PhD; John W. Sperling, MD; Robert R. Cofield, MD; Scott P. Steinmann, MD; Mayo Clinic College of Medicine, Rochester, Minnesota, USA

5:22 pm  Biomechanical Comparison of Large Fragment versus Small Fragment Fixation for Humeral Shaft Fractures
Ravi Patel, BS; Corey Neu, PhD; Shane Curtiss, BS; Brad J. Yoo, MD; University of California, Davis Medical Center, Sacramento, California, USA

5:28 pm  Discussion

5:38 pm  ADJOURN
Evening on your own.
Thursday, October 8, 2009

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

7:30 – 8:40 am  SYMPOSIUM 5:  
**Infection**

Moderators:  *Theodore Miclau, III, MD*  
*Mark E. Shirtliff, PhD*

7:30 am  The Use of BMPs in the Setting of Infection:  Unsafe or Advantageous?  
*Andrew H. Schmidt, MD*

7:40 am  Novel Methods for Diagnosing Infection  
*Joseph C. Wenke, PhD*

7:50 am  Developing New Treatment Regimens for Challenging Problems:  Bacterial Biofilm and Intracellular Infections  
*Lawrence X. Webb, MD*

8:00 am  Chronic Orthopaedic Infections:  Are Vaccines the Answer?  
*Graeme A. O’May, PhD*

8:10 am  The Host Immune Response:  How Important Is It?  
*Mark E. Shirtliff, PhD*

8:20 am  Discussion

8:40 – 9:24 am  PAPER SESSION 5:  
**Infection**

Moderators:  *Theodore Miclau, III, MD*  
*Mark E. Shirtliff, PhD*

8:40 am  Overview:  
*Mark E. Shirtliff, PhD*

8:50 am  The Use of a Biodegradable, Load-Bearing Scaffold as a Carrier for Antibiotics in an Infected Open Fracture Model  
*Rena L. Stewart, MD; Joe Cox, BS; Ken Waites, MD; James P. Stannard, MD; David A. Volgas, MD; Tien-Min G. Chu, PhD; University of Alabama at Birmingham, Birmingham, Alabama, USA*

9:02 am  Negative Pressure Wound Therapy in a Contaminated Musculoskeletal Wound Survival Model:  Is NPWT Effective on Staph. Aureus, Too?  
*CPT Daniel J. Stinner, MD; CPT Scott J. Waterman, MD; Joseph C. Wenke, PhD; USA Army Institute of Surgical Research, Fort Sam Houston, Texas, USA*

9:08 am  Methicillin-Resistant Staphylococcus Aureus Screening, Surveillance, and Control Protocol in Trauma Patients  
*John Fennesy, MD; Timothy Ganey, PhD; Martin Franzus, MS; Daniel R. Schlatterer, DO, MS; Atlanta Medical Center, Atlanta, Georgia, Atlanta, Georgia, USA*

9:14 am  Discussion

9:24 am  Break

10:00 – 11:10 am  SYMPOSIUM VI:  
**Function Matters! Understanding Functional Outcomes in Orthopaedic Trauma Research**

Moderators:  *Mohit Bhandari, MD*  
*Marc F. Swiontkowski, MD*

10:00 am  Overview:  Which Functional Outcomes Matter in Fracture Care?  
*Marc F. Swiontkowski, MD*

10:10 am  How Do I Pick Functional Measures for My Study?  
*Paul Tornetta, III, MD*

10:20 am  Does Function Correlate with Fracture Healing?  
*Saam Morshed, MD, PhD*

10:30 am  SF-36, SMFA, and EQ-5D:  Do I Use All, None, or Some?  
*Emil H. Schemitsch, MD*

10:40 am  There Is No Valid Measure – Now What Do I Do?  
*William T. Obremskey, MD*

11:10 am  Discussion

11:20 am  Basic Science Focus Forum Adjourns

2009 OTA Pre-Meeting Course
Disaster Management and Emergency Preparedness Course
Christopher T. Born, MD, Chair

Attendees of this activity can earn up to 8 AMA PRA Category 1 Credits™.

Wednesday, October 7, 2009

Target Audience
Attendees of the 25th Annual Meeting of the Orthopaedic Trauma Association, local and regional trauma-care providers and hospital/government administrators.

Course Description
The medical community needs to participate in the planning, triage and medical management of mass casualties following disasters. This course will be directed to frontline providers who are likely to be charged with the initial care of large numbers of victims. An "all-hazards" curriculum that emphasizes the common principles of disaster management regardless of specific mechanism will be utilized. Time will also be devoted to small group interactive sessions of disaster scenario presentations. An expansive course syllabus and bibliography of relevant literature will be provided.

Attendees of the OTA Disaster & Mass Casualty Course will:

- Become familiar with the preparation and planning for mass casualty events, their epidemiology, basic terms, definitions and principles;
- Understand the prehospital elements of disaster management, scene and field organization, initial casualty management/triage/transportation, security, communications, and casualty distribution to hospitals;
- Recognize the importance of pre-determined and rehearsed in-hospital management systems and pitfalls both to response and to delivery of care;
- Be familiarized with the pathophysiology and injury patterns of weapons of mass destruction;
- Understand the long term effects and issues of disasters.

Invited Faculty
Christopher T. Born, MD, Chair
Faculty to be announced from:
American College of Surgeons,
American Academy of Orthopaedic Surgeons,
and Orthopaedic Trauma Association

All attendees need to complete the pre-test, which will be sent upon receipt of registration. Return to OTA staff at ota@aaos.org or Fax: 847-823-0536 AND bring to San Diego.

Program Schedule (Annie A/B)
7:15 am  Registration (Turn in completed pre-test)
7:30 am  Introduction/Scenario
7:45 am  Overview of Principles for Effective Disaster Preparation and Response
8:30 am  Planning
9:00 am  Incident Command
9:30 am  Mass Casualty Triage
10:00 am Break
10:15 am Pre-hospital Disaster Preparation
10:45 am Process for Hospital Disaster Response
11:15 am Interactive Scenario
12:00 pm Lunch (provided)
12:45 pm Pathophysiology/Patterns: Blast
1:15 pm  Pathophysiology/Patterns: Burns
1:45 pm  Pathophysiology/Patterns: Chemical & Radiological
2:30 pm  Break
2:45 pm  Long-Term Issues/Recovery
3:15 pm  Pediatric Considerations
3:45 pm  Interactive Scenario
4:30 pm  Post test / Review test
5:00 pm  Adjourn

Pre-registration deadline September 9 — Registration form on page 35 of Booklet.
Course Description
Margaret Maley BSN, MS, consultant with Karen Zupko & Associates, returns with her fast-paced coding and reimbursement course. Based on your feedback, the course has been divided into two sessions. The morning course will address evaluation & management code selection, documentation requirements, and teaching physician guidelines. The afternoon will cover surgical coding and reimbursement issues. Both sessions will be tailored to the orthopaedic trauma surgeon. Information from the morning session will not be repeated or reviewed in the afternoon. Having difficulty determining if a service is a consultation or how the modifier -59 helps a trauma surgeon? You need to come to both sessions.

Bring your office manager and business office staff. You won’t want to miss this opportunity to attend a coding and reimbursement course strictly for trauma surgeons.

Learning Objectives
Upon successful completion of the Evaluation and Management Course, you will learn:
• Determining the E&M Category of Service
• Determining the E&M Level of Service
• Guidelines for Successful Documentation
• E&M Modifiers
• Teaching Physician Guidelines

Upon successful completion of the Orthopaedic Trauma Procedural Coding and Modifiers Course, you will learn:
• Surgical Coding and Modifiers
• Reimbursement Issues with Trauma Coding
• Fracture Care

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 managing clinical aspects of the practice. In 1984 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.

Margaret is the author of a book chapter on CPT coding, and has written reimbursement related articles for the Knee Society Newsletter, AAHKs Newsletter, Strategic Orthopaedics, BONES Society Newsletter, and the AAOS Bulletin.

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 BONES, 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.

Margaret developed and is an instructor for the national workshop series KarenZupko & Associates conducted with sponsorship from the American Academy of Orthopaedic Surgeons. She is in demand by physicians and their staff for seminars and workshops on orthopaedic coding and practice related issues.

Target Audience
Attendees of the 25th Annual Meeting of the Orthopaedic Trauma Association, orthopaedic trauma surgeons, fellows and residents, basic scientists, bioengineers and biologists.

Forum Objectives
1) Learn about methods to manage neglected fractures in resource-poor environments;
2) Learn about methods to manage infection after internal fixation or neglected open fractures in resource-poor environments.

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
Steven J. Morgan, MD
Saqib Rehman, MD
Andrew H. Schmidt, MD
Wade R. Smith, MD
David C. Templeman, MD
J. Tracy Watson, MD
Lewis 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 A. (Toney) Russell, MD (China Focus)

Pre-registration deadline September 9 — Registration form on page 35 of Booklet.
**International Forum, continued**

11:00 am – 11:15 am  **PAPER SESSION 1:** Polytrauma and Post-traumatic Reconstruction  
Moderators: David C. Templeman, MD  
  J. Tracy Watson, MD

11:00 am  **Overview**

11:05 am  Outcome in Patients with Infected Non Union of the Long Bones Treated with Reinforced Antibiotic Bone Cement Rod (RABC)  
Jaspreet Singh, MD; Harpal Singh Selbi, MD; Pankaj Mahindra, MD; Mohammad Yamin, MD  
Dayanand Medical College & Hospital, Ludhiana, India

11:13 am  Analysis of Long Bone Injuries in the Earthquake of 2005 - Pakistan  
Rizwan Akram, MD; Ijaz Ahmed, MD, FCPS (Orth); Amer Aziz, MD, FRCS (Ed), MSc (Ortho-London), FCPS (Orth); Ghurki Trust Teaching Hospital/Lahore Medical and Dental College, Lahore, Pakistan

11:19 am  Evaluation of Injuries from a Field Hospital in the 2008 Wenchuan Earthquake: The First Week  
Ai-min Chen, MD; Li Zhangbin; Zhangwei Chankun; Qirong Qin; Jiangang Shi; Guohan Hu; Xuewei Zhao; Limin Wang; Yanping Sun; Yan Wu; Jianzhong Zhang; Chengcai Wang; Junqing Ye; Xiaoping Din; Dongmei Yu; Yiyuan Liu  
Shanghai Changzheng Hospital China, Shanghai, China

11:29 am  **Discussion**

11:45 am  The Repair of the Lower Leg, Ankle and Foot Soft Tissue Defects  
Heng-sheng Shu, MD; Bao-Tong Ma, MD; Shi-lian Kan, MD  
Tianjin Hospital, P.R. China, Tianjin, China

11:53 am  To Evaluate the Results of Treatment with Solid Intramedullary (SIGN) Nail in Cases of Implant Failure of Diaphysial Fractures of Long Bones  
Rizwan Akram, MD; Atiq-uz Zaman, MD, FRPS (Orth); Amer Aziz, MD, FRCS (Ed), MSc (Ortho-London), FCPS (Orth); Ghurki Trust Teaching Hospital/Lahore Medical and Dental College, Lahore, Pakistan

12:01 pm  **Discussion**

12:15 pm  **Lunch**

1:15 pm  **SYMPOSIUM 2:** Infection  
Moderators: Jeffrey O. Anglen, MD  
  Andrew H. Schmidt, MD

1:15 pm  **Overview**

1:20 pm  Treatment of Infected Long Bones with a Cement Nail  
Jorge D. Barla, MD  
Buenos Aires, Argentina

1:28 pm  Prevention of Infection  
Lewis G. Zirkle, Jr., MD  
Surgical Implant Network (SIGN)  
Richland, Washington

1:36 pm  Late Reconstruction of Infected Tibial Nonunions  
Patrick Herard, MD  
Paris, France

1:44 pm  **Discussion**

2:00 pm – 2:13 pm  **PAPER SESSION 2:** Upper Extremity & Injury Prevention  
Moderators: William G. DeLong, Jr., MD  
  Andrew H. Schmidt, MD

2:00 pm  **Overview**

2:05 pm  Neglected/Unreduced Perilunate or Lunate Dislocations: Is Late Surgical Reduction Justified?  
Mandeep S. Dhillon, MD; Devindra Kumar Chauhan, MD; Sameer Aggarwal, MD  
Pgimer Chandigarh, India

2:13 pm  Minimally Invasive Plate Osteosynthesis of Humeral Shaft Fractures: Clinical Results in a Regional Colombian Hospital  
Juan M. Concha, MD; Alejandro Sandoval, MD; Philipp N. Streubel, MD  
Universidad del Cauca, AO Center of Investigation and Documentation, Popayan, Colombia

2:21 pm  Locking Plate for Proximal Humeral Fractures  
Yi Lu, MD; Chunyan Jiang, MD, Yiming Zhu, MD; Manyi Wang, MD  
Beijingji Shui Tan Hospital, Beijing, China

2:29 pm  **Discussion**

International Forum, continued

2:45 pm  Can the Level of Vascular Damage be Predictive of Extent of Final Neural Outcome in Scapulothoracic Dissociation?  
Sameer Aggarwal, MD; Ramesh K. Sen, MD; Mandeep S. Dhillion, MD  
Pgimer Chandigarh, Chandigarh, India

2:53 pm  Education and Communication Tools for Bridging the Divide in a Low Resource Setting  
David Oloruntoba, MD (MBBS, FWACS), Bedford Orthopaedic Hospital, Umtata, South Africa

3:01 pm  Discussion

3:10 pm  Break

3:25 pm – 5:00 pm  PAPER SESSION 3: Pelvis and Lower Extremity
Moderators: Peter V. Giannoudis, MD  
Wade R. Smith, MD

3:25 pm  Overview

3:30 pm  Protected Trochanteric Osteotomy for Open Reduction and Internal Fixation of Complex Acetabular Fractures: Review of Results in 48 Cases  
Chitta P. Das, MD; Banojini Parida, MD  
West End Hospital, Cuttack, India

3:38 pm  LISS vs. PFNA in Treating Peritrochanteric Fractures of Femur  
Analysis of the Result of Prospective Randomized Controlled Trial  
Huan Yang, MD; Fang Zhou, MD; Tian Yun MD; Ji Hong Quan, MD; Shan Zhi Zhang, MD  
Orthopedic Department of Peking University Third Hospital (PUTH), Beijing, China

3:46 pm  Prevention of Unrecognized Joint Penetration by Screws at Internal Fixation of Hip Fractures: A Geometric Model Based on Steinmetz Solid  
Yujiang Mao, MD; Jie Song, MD; Jie Wei, MD; Manyi Wang, MD  
Beijing Jishuitan Hospital, Beijing, China

3:54 pm  Discussion

4:10 pm  Fixation of Patella and Olecranon Fractures with a Minimally Invasive Tensioned Wire Method: Compressive External Fixation (CEF)  
Mohammad Ismail Wardak, MD; Abdul Razaq Siawash, MD, PhD  
Afghan National Military Hospital, Kabul, Afghanistan

4:18 pm  Treatment of Type C Pilon Fractures by External Fixator Combined with Limited Open Reduction and Absorbable Internal Fixation  
Ai-min Chen, MD; Liang-yu Zhao; Chun-lin Hou; San-huai Gou; Yan Liu; Yue-ping Ouyang; Wei Zhang; Wen Yuan Shanghai Changzheng Hospital Shanghai Shanghai, China

4:26 pm  The Use of the SIGN Nail in the Treatment of Long Bone Fractures in Uganda  
Patrick Sekimpi, MD  
Makerere University, Kampala, Uganda

4:34 pm  The Application of Peroneal Tenography in Patients with Lateral Calcaneal Pain after Fracture Union  
Wei Chen, MD; Xicheng Li, MD; Qi Zhang, MD; Yanling Su, MPH; Yingze Zhang, MD  
Department of Orthopaedics, Third Hospital of Hebei Medical University, Shijiazhuang, China

4:42 pm  Discussion

5:00 pm  Adjourn

5:45 – 6:45 pm  Adjourn

International Reception

All International Attendees are Welcome.
2009 OTA Pre-Meeting Course
Young Practitioners Forum
Lisa K. Cannada, MD, Chair

Attendees of this activity can earn up to 3.75 AMA PRA Category I Credits™.

Elizabeth Ballroom G

Thursday, October 8, 2009

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

Objectives
The audience will be able to define interviewing strategies, be familiar with different practice settings and demonstrate competence in negotiating tasks after attending this symposium.

Program Schedule
8:00 am
Introduction
Lisa K. Cannada, MD
- Overview
- Trauma Profile for Young Practitioners 2009

8:10 am
Choosing a Fellowship
Dan Kemper, MD
- The Match Process
- What Are You Looking For?

8:17 am
Your First Job
Judith Siegel, MD
Aaron A. Osborne, DO
- Interviewing Strategies
- Asking the Right Questions to Get What You Want
- Creating an Opportunity

8:38 am
My First Year in Practice
Frank A. Liporace, MD
Peter L. Althausen, MD, MBA
- What I Learned
- What I Wish I Knew
- What I Would Do Differently

8:51 am
A Chairman’s Perspective on Young Faculty
Jeffrey O. Anglen, MD
- Evaluating
- Promoting
- Mentoring

9:00 am
QUESTIONS

9:10 am
Building a Successful Trauma Practice
Timothy J. Bray, MD
Peter J. Nowotarski, MD
- The Business Aspect of Orthopaedics
- Building a Referral Base
- Mentoring the Younger Partners

9:38 am
Negotiating
M. Bradford Henley, MD
- The Top Questions to get Answered before You Sign the Bottom Line

9:50 am
QUESTIONS

10:00 am
BREAK

10:15 am
Things You Never Thought Of
J. Tracy Watson, MD
H. Claude Sagi, MD
- Resources
- Consulting Agreements
- Meetings
- Longevity in your Career
- Partner/Faculty Turnover

8:30 am
Research
Michael J. Bosse, MD
- Finding Time for Research
- What Are Your Requirements for Research
- What It Takes to Get It Started
- What Makes a Good Team
- Joining a Consortium

Names in Bold = Presenter

Preparing for the Road Ahead

James P. Stannard, MD
- Definable Goals: the 5-Year Plan
- Being Familiar with the Business Aspect
- Finding Your Niche
- Developing Skills Outside of Trauma

Time for a Move

Bruce H. Ziran, MD
- Putting Yourself Back on the Market
- How to Look for a New Job while You Are Still Working

Financial Management

Roy Sanders, MD
- Personal Finance

Boards: Preparing for Your Boards-Part II

Rahul Banerjee, MD

What the OTA Has to Offer

Kathleen Caswell

Keynote Address: Learning from the History of Fracture Fixation

Robert A. Winquist, MD

Wrap Up

Lunch with Faculty and Questions

OTA Past Presidents Participating in the Young Practitioners Forum

J. Tracy Watson, MD
(President 2008-09)

Jeffrey O. Anglen, MD
(President 2007-08)

Michael J. Bosse, MD
(President 2006-07)

Roy Sanders, MD
(President 2004-05)

M. Bradford Henley, MD, MBA
(President (2000-01)

Robert A. Winquist, MD
(President 1992-93)
2009 OTA Annual Meeting

Available Break-out Sessions
SEATING LIMITED — TICKETS REQUIRED

**Friday 6:45 AM - 1:31 PM**
- Lab – ORIF Clavicle & Proximal Humerus
- Cases - Proximal Humerus
- Cases – Pelvis & Acetabulum
- Lab - IM Nail Proximal Femur
- Cases – Research Grant Writing
- Lab - ORIF Proximal Tibia
- Cases – Common Pediatrics Fractures
- Cases - Ankle Fractures

**Saturday 6:45 AM - 1:15 PM**
- Cases – Nonunions & Malunions
- Cases - Elbow Trauma
- Cases - Pelvic Fractures and Shock
- Lab – ORIF Distal Radius
- Lab – ORIF Distal Femur
- Cases - Failures and Salvage in LE Trauma
- Lab – ORIF Distal Tibia
- Cases - Hindfoot & Midfoot

**Mini Symposium - Soft Tissue Coverage for the Non-Microsurgeon**
**Mini Symposium – Periprosthetic Fractures**
**Mini Symposium - Amputations**
**Mini Symposium - Traumatologist as Educator**
**Mini Symposium - Fragility Fractures**
**Mini Symposium - Infections**

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**Scientific Posters**
*Elizabeth 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**
*Douglas Pavilion* will be open:
- Thursday 3:00 pm - 5:00 pm
- Friday 9:30 am - 5:00 pm
- Saturday 9:30 am - 1:30 pm

Thursday, October 8, 2009

6:30 am  Registration  
(Douglas Pavilion Foyer)  

1:00 pm  Welcome  
(Elizabeth Ballroom A-E, Level II)  
David C. Templeman, MD – President  
William M. Ricci, MD – Program Chair  
James A. Goulet, MD – Program Co-Chair  
CDR Michael T. Mazurek, MD – Local Host  
Jeffrey M. Smith, MD – Local Host  

2:35 – 3:43 pm  Scientific Session I: Pediatrics and Injury Prevention  
Moderators: Peter J. O’Brien, MD  
Steven L. Frick, MD  
Lydia A. White, MD;  
Charles T. Mehlman, DO, MPH;  
Alvin H. Crawford, MD;  
1University of Cincinnati, Cincinnati, Ohio, USA;  
2Cincinnati Children’s Hospital, Cincinnati, Ohio, USA  

1:10 pm – 1:20 pm  Research Award Presentations  
Joseph Borrelli, Jr., MD,  
OTA Research Committee Chair  

1:20 – 2:35 pm  Symposium I: Assessment of Fracture Healing  
Moderator: Emil H. Schemitsch, MD  
Faculty:  
Mohit Bhandari, MD  
Michael D. McKee, MD  
Theodore Miclau, III, MD  
Marc F. Swiontkowski, MD  
Paul Tornetta, III, MD  
(Elizabeth Ballroom Level II)  

2:41 pm  Paper #26  
Elastic Stable Intramedullary Nailing in Pediatric Forearm Fractures: An Analysis of 162 Cases  
Hamid Joneidi-Jafari, MD;  
Tobias Fehmer, MD;  
Alexandros P. Anastasiadis, MD;  
Gert Mubr, MD; Christian Schinkel, MD;  
University Hospital Bergmannsheil, Ruhr University Bochum, Bochum, Germany  

2:47 pm  Discussion  

Names in Bold = Presenter
2:52 pm  
**On-Call Coverage for Pediatric Orthopaedic Emergencies: Description of An Effective Call System to Optimize Pediatric Patient Care**  
Christopher Bray, MD; Brian Scannell, MD; Michael Bosse, MD; Steven Frick, MD; Virginia Casey, MD; D. Christian Clark, MD; J. Michael Wattenbarger, MD;  
1Department of Orthopaedic Surgery, Carolinas Medical Center, Charlotte, North Carolina, USA;  
2OrthoCarolina, Charlotte, North Carolina, USA  

2:58 pm  
**Dispelling the Myth: Emergency Fracture Care, Who's Doing What?**  
Kenneth J. Koval, MD; Jeffrey O. Anglen, MD; James Weinstein, DO, MS; J. Lawrence Marsh, MD; John J. Harrast, MS;  
1Dartmouth Hitchcock Medical Center, Lebanon, New Hampshire, USA;  
2Indiana University, Indianapolis, Indiana, USA;  
3University of Iowa, Iowa City, Iowa, USA;  
4Web Data Solutions, Hinsdale, Illinois, USA  

3:04 pm  
**Comparing Acute Narcotic Requirements of Pediatric Patients with Isolated Femur Fractures: Skeletal vs. Skin Traction**  
Cameron J. Vanlaningham, MD; Thomas M. Schaller, MD; Christopher Wise, MD;  
1Michigan State University/Kalamazoo Center for Medical Studies, Kalamazoo, Michigan, USA;  
2Orthopaedic Trauma Surgery, HealthCare Midwest, Kalamazoo, Michigan, USA;  
3Orthopaedic Trauma Surgery, DFP Orthopedics, Independence, Missouri, USA  

3:15 pm  
**Prescription Narcotic Use before and after Orthopedic Trauma Surgery and the Effect of Perioperative Counseling**  
Joel Holman, MD; Thomas F. Higgins, MD; Daniel S. Horwitz, MD;  
University of Utah, Department of Orthopedics, Salt Lake City, Utah, USA  

3:21 pm  
**Outcomes in Pregnant Trauma Patients with Orthopaedic Injuries**  
Lisa K. Cannada, MD; Ping Pan, BS; Brian M. Casey, MD; Donald D. McIntire, PhD; Shahid Shafi, MD, MPH; Kenneth J. Leveno, MD;  
1Department of Orthopaedic Surgery, St. Louis University Hospital, St. Louis, Missouri, USA;  
2University of Texas Southwestern Medical School, Dallas, Texas, USA;  
3Department of Obstetrics and Gynecology & Trauma Surgery, University of Texas Southwestern Medical Center, Dallas, Texas, USA  

3:26 pm  
**Discussion**  

3:32 pm  
**Childbirth after Pelvic Fractures: A Multicenter Study**  
Lisa K. Cannada, MD; Yamini Natarajan, BS; Sara Strebe, MD; Heather A. Vallier, MD; Beth A. Cureton, MS; Jennifer Barr, MD; Zhen Qin, MS; George V. Russell, MD; Carol E. Copeland, MD;  
1St. Louis University Medical Center, St. Louis, Missouri, USA;  
2University of Texas-Southwestern, Dallas, Texas, USA;  
3Metrohealth Medical Center, Cleveland, Ohio, USA;  
4University of Mississippi, Jackson, Mississippi, USA;  
5Sinai Hospital, Baltimore, Maryland, USA  

3:38 pm  
**Discussion**  

3:43 pm  
**Break**  
Visit Scientific Posters  
(Elizabeth Ballroom Foyer)  
& Technical Exhibits  
(Douglas Pavilion Level I)  

Names in **Bold** = Presenter
Thursday, October 8, 2009, continued

4:10 – 5:00 pm

Scientific Session II
Pelvis and Acetabulum

Moderators: Victor A. de Ridder, MD
Mark C. Reilly, MD

4:10 pm
Nonoperative Immediate Weightbearing of Minimally Displaced Lateral Compression Sacral Fractures Does Not Result in Displacement
Gillian Sembler, MD; John Lien, MD; Paul Tornetta, III, MD; 1Boston University Medical Center, Boston, Massachusetts, USA

4:16 pm
Predicting Future Displacement of Non-Operatively Managed Sacral Fractures: Can It Be Done?
Brandon Bruce, MD; Mark Reilly, MD; Steven Sims, MD; 1Carolinas Medical Center, Charlotte, North Carolina, USA; 2New Jersey Medical School, Newark, New Jersey, USA

4:22 pm
Discussion

4:27 pm
Minimally Invasive Treatment of Unstable Pelvic Ring Injuries with an Internal Anterior Fixator (INFIX) and Posterior Iliosacral Screws
Rahul Vaidya, MD; Frederick Tonnes, DO; Robert Colen, DO; Anil Sethi, MD; Detroit Medical Center Detroit Receiving Hospital, Detroit, Michigan, USA

4:33 pm
A Clinical Comparison between Anterior Pelvic External Fixation and Subcutaneous Locked Pelvic Spanning Internal Fixation for Pelvic Ring Injuries
Archie A. Heddings, MD; Jack Anavian, MD; Thuan V. Ly, MD; Robert A. Morgan, MD; Peter A. Cole, MD; 1Department of Orthopaedic Surgery, University of Kansas Medical Center, Kansas City, Kansas, USA; 2Department of Orthopaedic Surgery, University of Minnesota-Regions Hospital, Saint Paul, Minnesota, USA

4:39 pm
Discussion

4:44 pm
Value of Three-Dimensional Computed Tomography in Classifying Acetabular Fractures during Orthopaedic Residency Training
Jeffrey P. Garrett, MD; Lawrence X. Webb, MD; Joseph A. Veneziano, MD; Eben A. Carroll, MD; Wake Forest University Health Sciences, Winston-Salem, North Carolina, USA

4:50 pm
Impact of a 3-Dimensional Hands On Anatomical Teaching Module on Acetabular Fracture Pattern Recognition by Orthopaedic Residents: A Pilot Study
Erik Hansen, MD; Meir Marmor, MD; Amir Matityahu, MD; University of California San Francisco, San Francisco, California, USA

4:56 pm
Discussion

5:00 – 6:00 pm
Member Business Meeting

5:30 – 7:30 pm
Welcome Reception
Join the OTA for entertainment, cocktails and a generous assortment of hors d’oeuvres while taking in the magnificent views of downtown, San Diego Bay and the Pacific Ocean from the pool deck of the Manchester Grand Hyatt.

18
Pre-registration deadline September 9 — Registration form on page 35 of Booklet.
Friday, October 9, 2009

6:30 am  Registration – (Douglas Pavilion Foyer)

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

Please Bring Difficult Cases for Consultation

Tickets are required.

6:30 am  Continental Breakfast

6:45 – 7:45 am  Case Presentations

**Problems Solved in Proximal Humerus Fractures (#F-1)**
Moderator:  John T. Gorczyca, MD and Utku Kandemir, MD
Faculty:  Milan K. Sen, MD and Donald A. Wiss, MD

**Pelvis and Acetabulum (#F-2)**
Moderator:  Paul Tornetta, III, MD
Faculty:  Kyle F. Dickson, MD; Alan L. Jones, MD; Mark A. Lee, MD and David C. Templeman, MD

**Common Pediatric Fractures (#F-3)**
Moderator:  Stephen L. Frick, MD
Faculty:  Susan Scherl, MD and Kelly L. VanderHave, MD

**Clinical Research Seminar: Randomized Controlled Trials (#F-4)**
Moderator:  Mohit Bhandari, MD and Theodore Miclau, III, MD
Faculty:  Michael J. Bosse, MD; Saam Morshed, MD; Emil H. Schemitsch, MD and Andrew H. Schmidt, MD

**Ankle Fractures (#F-5)**
Moderator:  Michael J. Gardner, MD
Faculty:  David P. Barei, MD and J. Tracy Watson, MD

8:00 am  25th Anniversary Lecture
(Elizabeth Ballroom A-E, Level II)
Richard F. Kyle, MD, Past President AAOS, Past President OTA

8:15 – 9:45 am  Symposium II: Surgical Timing: What's Emergent and What's Not
Moderator:  Mark A. Lee, MD
Faculty:  Brett D. Crist, MD; Gregory J. Della Rocca, MD; Tania A. Ferguson, MD; Yvonne M. Murtha, MD
(Elizabeth Ballroom Level II)

9:45 am  Break
Visit Scientific Posters & Technical Exhibits
(Elizabeth Ballroom Foyer & Douglas Pavilion)

**Scientific Session III**

**Hip and Geriatric**

**Moderators:**  
James A. Goulet, MD  
Clifford B. Jones, MD

10:25 am  
**Low Energy Femoral Diaphyseal Fractures and Long-term Bisphosphonate Use**  
Brett A. Lenart, MD;  
Andrew S. Neviaser, MD;  
Stephen Lyman, PhD;  
Charles C. Chang, MD, DDS;  
Folorunso Edobor-Osula, MD, MPH;  
Barbara Steele, MD;  
Marjolein C.H. van der Meulen, PhD;  
Dean G. Lorich, MD; Joseph M. Lane, MD;  
1 Rush University Medical Center, Chicago, Illinois;  
2 Hospital for Special Surgery, New York, New York, USA;  
3 Long Island Jewish Medical Center, New Hyde Park, New York, USA;  
4 New York Medical College at Westchester Medical Center, Valhalla, New York, USA;  
5 Cornell University, Ithaca, New York, USA;  
6 Hospital for Special Surgery, New York-Presbyterian Hospital-Weill Cornell Medical Center, Weill Medical College of Cornell University, New York, New York, USA

10:31 am  
**Complications Associated with Pharmacologic Reversal of Warfarin-Associated Coagulopathy in Patients with Hip Fractures**  
Mark A. Vitale, MD, MPH;  
Corrine Vanbeek, MD; Jeffrey A. Geller, MD;  
Columbia University Medical Center, Department of Orthopaedic Surgery, Hip Fracture Service, New York, New York, USA

10:37 am  
**Depth of Sedation and Postoperative Delirium during Spinal Anesthesia for Hip Fracture Repair in Elderly Patients: A Randomized Controlled Study**  
Frederick Sieber, MD; Khwaja Zakriya, MD;  
Hochang Lee, MD; Paul Rosenberg, MD;  
Simon C. Mears, MD;  
Johns Hopkins Bayview Medical Center, Baltimore, Maryland, USA

10:43 am  
**Discussion**

10:48 am  
**How Often Does ORIF of Geriatric Acetabular Fractures Lead to Hip Arthroplasty?**  
Robert V. O’Toole, MD; Emily Hui, MPH;  
Amit Chandra, BA;  
RA Couley Shock Trauma Center, Dept. of Ortho, University of Maryland School of Medicine, Baltimore, Maryland, USA

10:54 am  
**Protrusio Fractures of the Acetabulum in Patients 70 Years and Older**  
Michael T. Archdeacon, MD, MSE;  
University of Cincinnati Academic Health Center, Cincinnati, Ohio, USA

11:00 am  
**Discussion**

11:05 am  
**A Randomized Clinical Trial Comparing Minimally Invasive Surgery to Conventional Approach for Endoprosthesis in Elderly Patients with Hip Fractures**  
G. Yves Lafﬁamme, MD; Louis Roy, MD;  
Mathieu Carrier, MD; Paul R. Kim, MD;  
Stephane Leduc, MD;  
Hospital du Sacré-Cœur, Montreal, Quebec, Canada

11:11 am  
**A Randomized, Prospective Comparison of the DHS and DHHS Implants for the Treatment of Pertrochanteric Hip Fractures Performed in the Community Setting**  
Daniel C. Fitzpatrick, MS, MD;  
Daniel V. Sheerin, MD; Thomas K. Wuest, MD;  
Slocum Center for Orthopedics, Eugene, Oregon, USA

11:17 am  
**Outcomes of Length Stable Fixation of Femoral Neck Fractures**  
Sreevaths Boraiah, MD; Omesh Paul, MD;  
Michael J. Gardner, MD;  
Joseph U. Barker, MD; Robert J. Parker, BS;  
David Helfet, MD; Dean Lorich, MD;  
1 Westchester Medical Center, Valhalla, New York, USA;  
2 Hospital for Special Surgery, New York, New York, USA;  
3 Washington University School of Medicine, St. Louis, Missouri, USA

11:23 am  
**Discussion**

Names in **Bold** = Presenter
11:28 am – 12:31 pm

**Scientific Session IV**

**Upper Extremity**

Moderators: 
- Michael D. McKee, MD
- Laura J. Prokuski, MD

11:28 am

Paper #47

Outcomes of Displaced Scapular Body Fractures Treated Nonoperatively

Apostolos Dimitroulias, MD; Kenneth G. Molinero, DO; Daniel T. Altman, MD; Gregory T. Altman, MD; Allegheny General Hospital, Pittsburgh, Pennsylvania, USA

11:34 am

Paper #48

Surgical and Functional Outcomes after Operative Management of Displaced Intra-articular Glenoid Fractures

Jack Anavian, MD; Coen A. Wijdicks, MSc; Lisa K. Schroder, BS, MBA; Peter A. Cole, MD; University of Minnesota, Regions Hospital, St. Paul, Minnesota, USA

11:40 am

Discussion

11:45 am

Paper #49

Operative versus Nonoperative Treatment of Humeral Shaft Fractures: A Retrospective Review of 213 Patients from Two Level I Trauma Centers

William T. Obremskey, MD; Michael C. Tucker, MD; Antony Denard, BS; Vanderbilt University, Nashville, Tennessee, USA

11:51 am

Paper #50

Anterior Sub-Muscular Plating of the Humerus

Bruce R. Ziran, MD; Wade Smith, MD; Gabrielle Peacher, BS; 1Atlanta Medical Center, Decatur, Georgia, USA 2Denver Health Medical Center, Denver, Colorado, USA

11:57 am

Paper #51

A Comparison of Open versus Percutaneous Plating of Proximal Humerus Fractures

Jeffrey Matthew Staron, MD; B. Matthew Hicks, MD; 1Fort Wayne Medical Education Program, Fort Wayne, Indiana, USA 2Fort Wayne Orthopaedics, Fort Wayne, Indiana, USA

12:03 pm

Discussion

12:08 pm

Paper #52

Prospective Randomised Treatment of Distal Radius Fractures in the Elderly: Are Fixed Angle Implants Superior to K-Wire Osteosynthesis?

Christian Probst, MD; Rebekka Schmidt, MD; Katja Briese, MD; Ralph Gaulke, MD; Christian Krettek, MD; Reinhard Meier, MD; Hannover Medical School, Hannover, Germany

12:14 pm

Paper #53

Effects of Brachioradialis Lengthening and Pronator Quadratus Repair on Outcomes Following Volar Plating of Distal Radius Fractures

Stuart Hershman, MD; Igor Immerman, MD; Christopher Bechtel, BS; Michael Walsh, PhD; Nader Paksima, DO; Kenneth A. Egol, MD; NYU Hospital for Joint Diseases, New York, New York, USA

12:20 pm

Paper #54

Do Anti-Oxidants Modulate the Outcome of Fractures? A Prospective Randomized Controlled Trial

Ingri Ekrol, MD; Charles Court-Brown, MD; Stuart Ralston, MD; Margaret McQueen, MD; Trauma Unit, Royal Infirmary of Edinburgh, Edinburgh, United Kingdom

12:26 pm

Discussion

12:31 – 1:31 pm

Lunch

Visit Scientific Posters (Elizabeth Ballroom Foyer) & Technical Exhibits (Douglas Pavilion Level I)

12:31 – 1:31 pm

Kathy Cramer, MD Memorial Women in Orthopaedic Trauma Luncheon/Meeting

Co-Chairs:
- Jacqueline J. Krumrey, MD
- Laura S. Phieffer, MD

All women attendees are invited to attend. Pre-Registration is required.

Names in **Bold** = Presenter
Friday, October 9, 2009, continued

1:31 – 3:01 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.

### Skills Labs

**Clavicle / Proximal Humerus (#F-6)**
Moderator: Lawrence X. Webb, MD  
Faculty: Michael D. McKee, MD

**IM Nail Proximal Femur (#F-7)**
Moderator: Kyle F. Dickson, MD

**ORIF Proximal Tibia (#F-8)**
Moderator: Cory A. Collinge, MD  
Faculty: Brett D. Crist, MD; Michael J. Gardner, MD; Bradley R. Merk, MD and Franklin D. Shuler, MD

### Mini Symposia

**Soft Tissue Coverage for the Non-Microsurgeon (#F-9)**
Moderator: Gregory L. DeSilva, MD  
Faculty: Michael T. Archdeacon, MD and Stephen DeSilva, MD

**OTA/ORAR Amputation: Indications, Techniques, Outcomes and Rehabilitation (#F-10)**
Moderator: William J. Ertl, MD  
Faculty: Michael J. Bosse, MD; Paul J. Dougherty, MD and TBD

**Considerations and Techniques in the Management of Peri-prosthetic Fractures (#F-11)**
Moderator: Samir Mehta, MD  
Faculty: David P. Barei, MD; James A. Goulet, MD; John L. Esterhai, Jr, MD and George J. Haidukewych, MD

3:01 – 3:41 pm

**BREAK**  
Visit Scientific Posters  
(Elizabeth Ballroom Foyer)  
& Technical Exhibits  
(Douglas Pavilion Level I)

3:41 – 4:11 pm

**President's Message**

David C. Templeman, MD  
(Elizabeth Ballroom Level II)

Names in **Bold** = Presenter

Pre-registration deadline September 9 — Registration form on page 35 of Booklet.
Scientific Session V
Pilon/Foot & Ankle

Moderators: Stephane Leduc, MD
William M. Ricci, MD

4:11 pm
Paper #55

Youtube Video Clips as a Tool for the Study of Injury Dynamics: Validating the Lauge-Hansen Ankle Fracture Classification System for In-Vivo Ankle Fractures
John Y. Kwon, MD; John J. Kadzielski, MD; Edward K. Rodriguez, MD, PhD; Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA

4:17 pm
Paper #56

Syndesmotic Injuries: The Clinical Consequence of Mal-reduction at a Minimum of Two Year Follow-Up
Anjan Claude Shah, MD; H. Claude Sagi, MD; Florida Orthopaedic Institute, Tampa, Florida, USA

4:23 pm
Paper #57

Twenty-One-Year Follow Up of Supination-Eversion II-IV Ankle Fractures: A Retrospective Cohort Study
Christian Donken, MD; Michiel Verhoefst, MD; Cees van Laarhoven, MD; 1Saint Elisabeth Hospital, Tilburg, The Netherlands; 2University Medical Centre Saint Radboud, Nijmegen, The Netherlands

4:29 pm
Discussion

4:34 pm
Paper #58

Primary Subtalar Fusion for Unreconstructable Intra-Articular Calcaneal Fractures: Long-Term Results
Gregory P. Witkowski, MD; Arthur K. Walling, MD; Dolfi Herscovici, DO; Roy Sanders, MD; Florida Orthopaedic Institute, Orthopaedic Trauma Service, Tampa, Florida, USA

4:40 pm
Paper #59

Primary Arthrodesis of the Tibiotalar Joint with Reconstruction of the Distal Tibial Metaphysis following Highly Comminuted C2 and C3 Pilon Fractures
Gary S. Gruen, MD; Ryan L. McMillen, DPM; Jason Dragan Dahl, BS; University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA

4:46 pm
Paper #60

Clinical Results of the Anatomic Compression Arthrodesis Technique with Anterior Plate Augmentation for Ankle Arthrodesis
Michael P. Clare, MD; Scott A. Swanson, MD; John P. Ketz, MD; Matthew A. Archino, MD; Lori K. Reed, MD; Ivan S. Tarkin, MD; Arthur K. Walling, III, MD; Roy Sanders, MD; 1Florida Orthopaedic Institute, Tampa, Florida, USA; 2University of Nebraska Medical Center, Omaha, Nebraska, USA; 3University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania, USA

4:52 pm
Discussion

5:03 pm
Paper #61

Treatment of Displaced Intra-Articular Calcaneal Fractures with Closed Reduction and Percutaneous Screw Fixation
Tijmen Tomesen, BA; Jan Biert, MD, PhD; Jan Paul M. Fröld, MD, PhD; Department of Surgery, UMC St Radboud, Nijmegen, Nijmegen, Netherlands

5:09 pm
Paper #62

Efficiency of Low-Intensity Pulsed Ultrasound on Distraction Osteogenesis after Trauma: A Prospective, Randomized Study
Marcel Dudda, MD; Jörg Hauser, MD; Gert Muh, MD; Stefan A. Eisenwein, MD; 1Department of Surgery, 2Department of Plastic Surgery, University Hospital Bergmannsheil, Ruhr-University Bochum, Bochum, Germany; 3Department of Orthopaedic Surgery, University Duisburg-Essen, Essen, Germany

5:15 pm
Discussion

5:20 pm Adjourn

Names in Bold = Presenter
Saturday, October 10, 2009

6:30 am  
Registration – (Douglas Pavilion Foyer)

**Case Presentations**

6:30 am  
Continental Breakfast

**Choose 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 – 7:45 am  
Case Presentations

**Elbow Trauma** (#S-1)
Moderator: Jesse B. Jupiter, MD  
Faculty: Michael D. McKee, MD; Sean E. Nork, MD; Emil H. Schemitsch, MD; and Thomas F. Varecka, MD

**Nonunions and Malunions** (#S-2)
Moderator: Stuart M. Gold, MD  
Faculty: William M. Ricci, MD; Walter W. Virkus, MD and J. Tracy Watson, MD

**Mid-Forefoot** (#S-3)
Moderators: Peter A. Cole, MD and Dolfi Herscovici, Jr, DO  
Faculty: Stephen K. Benirschke, MD and Robert A. Probe, MD

**Failures and Potential Salvage in Lower Extremity Trauma** (#S-4)
Moderator: Daniel S. Horwitz, MD  
Faculty: Wade R. Smith, MD and Bruce H. Ziran, MD

**Evaluation, Resuscitation and Operative Management of Patients with Pelvic Fractures and Hemorrhagic Shock** (#S-5)
Moderator: David J. Hak, MD  
Faculty: Milton L. "Chip" Routt; Andrew N. Pollak, MD and Adam J. Starr, MD

Attendees are invited to bring x-rays/radiographs.

8:00 am – 9:30 am  
Symposium III: Graft Options for Bone Defects

Moderator: Paul Tornetta, III, MD  
Faculty: Michael J. Bosse, MD  
Clifford B. Jones, MD  
H. Claude Sagi, MD  
J. Tracy Watson, MD  
(Elizabeth Ballroom Level II)

9:30 am  
Break  
Visit Scientific Posters  
(Elizabeth Ballroom Foyer)  
& Technical Exhibits  
(Douglas Pavilion Level I)
Scientific Session VI
Basic Science /
Injury Prevention /
Spine

Moderators:  Theodore Miclau, III, MD
            William T. Obremskey, MD

10:10 am –
12:15 pm

10:10 am
Paper #64

The Use of Endothelial Progenitor Cells to
Promote Bone Healing:  A Defect Model
in the Rat Femur
Kivanc Atesok, MD; Ru Li, PhD;
Emil H. Schemitsch MD, FRCS(C);
Musculoskeletal Research Lab, Division of
Orthopaedics, Department of Surgery,
St. Michael’s Hospital, University of Toronto,
Toronto, Ontario, Canada

10:16 am
Paper #65

Expression of Bone Morphogenetic
Protein Antagonists during Fracture
Healing
D. Brian Dean, MD1; J. Tracy Watson, MD1;
Wu Jin, BS1; Charles Peters, BS2;
Tyler Euders, BS2; Berton R. Moed, MD1;
Zijun Zhang, PhD1,2;
1Department of Orthopaedic Surgery,
2Anatomical Science Program,
Saint Louis University,
St. Louis, Missouri, USA

10:22 am
Discussion

10:27 am
Paper #66

Power Doppler Ultrasound Allows for
Real Time Blood Flow Analysis of Tibial
Fracture Callus in Patients
Adam F. Rana, MD; Alda Cosi, MD;
Jane E. Cheng, MD; Elizabeth Krall Kaye, PhD;
Paul Tornetta, III, MD;
Boston University Medical Center,
Boston, Massachusetts, USA

10:33 am
Paper #67

Environmental Oxygen Levels Affect
Angiogenesis during Fracture Healing
Chuanyong Lu, MD; Zhiqing Xing, MD;
Diane Hu, MD; Theodore Miclau, III, MD;
Ralph Marcucio, PhD;
University of California at San Francisco,
San Francisco, California, USA

10:39 am
Paper #68

Minimally Invasive Plate
Osteosynthesis:  Advanced Early Fracture
Healing in a Sheep Trauma Model
Martin E. Wullschleger, MD1;
Roland Steck, PhD1; John Webster1;
Kathleen Wilson1; Keita Ito, PhD1;
Michael A. Schuetz, PhD1;
1Queensland University of Technology,
Institute of Health and Biomedical
Innovation, Brisbane, QLD, Australia;
2The Prince Charles Hospital, Biological
Research Facility, Brisbane, QLD, Australia;
3Eindhoven University of Technology,
Orthopaedic Biomechanics Section,
Eindhoven, The Netherlands

10:45 am
Discussion

10:50 am
Paper #69

Does Bone Mineral Density Influence
the Strength of Locked and Unlocked
Plates?
Paul Tornetta III, MD1;
William M. Ricci, MD1;
Jacob Carnter, BA2;
Yanming Zheng, PhD3; Bob Jones, BA4;
Zane Hartssel1; Paul Tornetta, III, MD;
1Washington University School of Medicine,
St. Louis, Missouri, USA;
2Boston University School of Medicine,
Boston, Massachusetts, USA;
3Smith & Nephew, Inc.,
Memphis, Tennessee, USA;

10:56 am
Discussion

11:02 am
Paper #70

Negative Pressure Dressings on Primarily
Closed Wounds Improve Wound Healing
Parameters at Three Days in a Porcine
Model
James E. Meeker, MD; Laurence Dahners, MD;
University of North Carolina at Chapel Hill,
Chapel Hill, North Carolina, USA

Names in Bold = Presenter
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:13 am</td>
<td><strong>Incisional Negative Pressure Wound Therapy as a Treatment for Draining Hematomas: A Prospective Randomized Study</strong></td>
<td><strong>James P. Stannard, MD; David A. Volgas, MD; Rena L. Stewart, MD; Jorge E. Alonso, MD</strong>&lt;br&gt;1 The University of Alabama at Birmingham, Birmingham, Alabama, USA&lt;br&gt;2 The University of South Alabama, Mobile, Alabama, USA</td>
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<tr>
<td>11:19 am</td>
<td><strong>Discussion</strong></td>
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<td>11:24 am</td>
<td><strong>Does Stress Induced Hyperglycemia Increase the Risk of Perioperative Infectious Complications in Nondiabetic Orthopaedic Trauma Patients?</strong></td>
<td><strong>Madhav A. Karunkar, MD; Kurtis S. Staples, MD</strong>&lt;br&gt;1 Carolinas Medical Center, Charlotte, North Carolina, USA&lt;br&gt;2 The CORE Institute, Phoenix, Arizona, USA</td>
</tr>
<tr>
<td>11:30 am</td>
<td><strong>A Prospective Study of Cognitive Deficits, Depression and PTSD in Trauma Patients Without Intracranial Injury</strong></td>
<td><strong>William T. Obremskey, MD, MPH; Rebecca Bauer, MD, MPH; Christine Abraham; Venice Anderson, MA; Yanna Song, MA; Kristin Archer, PhD, DPT; Oscar Guillaumondegui, MD; James C. Jackson, PsyD; E. Wesley Ely, MD, MPH; Vanderbilt University, Nashville, Tennessee, USA</strong></td>
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<td>11:36 am</td>
<td><strong>Discussion</strong></td>
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<td>11:41 am</td>
<td><strong>Financial Implications of Non-Operative Fracture Care at an Academic Trauma Center</strong></td>
<td><strong>Paul Appleton, MD; Edward Rodriguez MD; Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA</strong></td>
</tr>
<tr>
<td>11:47 am</td>
<td><strong>Financial Impact of a Dedicated Orthopaedic Traumatologist on a Private Group Practice</strong></td>
<td><strong>Peter L. Althausen, MD, MBA; Lisa Davis, MBA; Eric Boyden, MD; Timothy J. Omara, MD; Timothy J. Bray, MD; Reno Orthopaedic Clinic, Reno, Nevada, USA</strong></td>
</tr>
<tr>
<td>11:53 am</td>
<td><strong>Discussion</strong></td>
<td></td>
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<tr>
<td>11:58 am</td>
<td><strong>The Value of Adding MRI to CT Protocols for Cervical Spine Clearance In Blunt Trauma: A Meta-Analysis</strong></td>
<td><strong>Andrew Schoenfeld, MD; Natalie Warholic, MA; Christopher Bono, MD; Kevin McGuire, MD; Mitchel Harris, MD</strong>&lt;br&gt;1 Harvard Combined Orthopaedic Program, Boston, Massachusetts, USA&lt;br&gt;2 Brigham and Women’s Hospital, Boston, Massachusetts, USA&lt;br&gt;3 Beth Israel Deaconess Medical Center, Boston, Massachusetts, USA</td>
</tr>
<tr>
<td>12:03 pm</td>
<td><strong>Posterior C2 Instrumentation in the Management of Trauma: Accuracy and Risks Associated with Four Techniques</strong></td>
<td><strong>Richard J. Bransford, MD; Anthony J. Russo, MD; Mark Freeborn, MD; Quynh Nguyen, PA-C; Michael J. Lee, MD; Jens R. Chapman, MD; Carlo Bellabarba, MD</strong>&lt;br&gt;1 Harborview Medical Center / University of Washington, Seattle, Washington, USA&lt;br&gt;2 Montana Orthopaedics, Butte, Montana, USA</td>
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<tr>
<td>12:12 pm</td>
<td><strong>Discussion</strong></td>
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<tr>
<td>12:15 pm</td>
<td><strong>Lunch</strong></td>
<td>Visiting Scientific Posters (Elizabeth Ballroom Foyer)</td>
</tr>
</tbody>
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**LAST OPPORTUNITY TO VISIT Technical Exhibits (Douglas Pavilion Level I)**

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*Names in **Bold** = Presenter*
### Concurrent Sessions

**Skills Labs and Mini Symposia**

**Skills Labs**

- **Distal Radius** (#S-6)
  - Moderator: Jesse B. Jupiter, MD

- **ORIF Distal Femur** (#S-7)
  - Moderator: Michael S. Sirkin, MD

- **ORIF Distal Tibia** (#S-8)
  - Moderator: Frank A. Liporace, MD

**Mini Symposia**

- **Treatment of Orthopaedic Infections** (#S-9)
  - Moderator: William T. Obremskey, MD
  - Faculty: Jeffrey O. Anglen, MD and Andrew H. Schmidt, MD

- **Fragility Fractures and Bone Health: Beyond ORIF** (#S-10)
  - Moderator: Douglas R. Dirschl, MD
  - Faculty: Matthew L. Jimenez, MD; Clifford B. Jones, MD and Joseph M. Lane, MD

- **Orthopaedic Traumatologist as Educator** (#S-11)
  - Moderator: J. Tracy Watson, MD
  - Faculty: Richard E. Buckley, MD; Susan Scherl, MD and Paul Tornetta, III, MD

- **OTA / ORA: Heterotopic Ossification: Highlights & Considerations** (#S-12)
  - Moderator: Samir Mehta, MD
  - Faculty: Michael Gardner, MD; Nader Hebela, MD; Major Joseph R. Hsu, MD and Mary Ann Keenan, MD

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2:45 pm

Break

Visit Scientific Posters

*(Elizabeth Ballroom Foyer)*

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Names in **Bold** = Presenter

John Border Memorial Lecture

(Elizabeth Ballroom A-E, Level II)

Introduction
David C. Templeman, MD
Lecture Co-sponsored by AO North America

Lawrence B. Bone, MD
Past President of OTA,
Professor and Chairman,
Department of Orthopaedic Surgery,
State University of New York at Buffalo

3:55 – 5:15 pm

Scientific Session VII
Knee / Tibia

Moderators: John T. Ruth, MD
Thomas A. DeCoster, MD

3:55 pm
Risk Factors for Failure of Locked Plate Fixation of Distal Femur Fractures: An Analysis of 305 Cases
William M. Ricci, MD; Philipp N. Streubel, MD1; Saam Morshed, MD; Cory Collinge, MD3; Sean E. Nork, MD1; Michael J. Gardner, MD1; 1Washington University School of Medicine, St. Louis, Missouri; 2Harborview Medical Center, Seattle, Washington, USA; 3Harris Methodist Fort Worth Hospital, Fort Worth, Texas, USA

4:01 pm
A Direct Comparison of Union and Implant Failure Rates between the Stainless Steel and Titanium Less Invasive Stabilization System
Saam Morshed, MD1; Michael J. Gardner, MD2; David Barei, MD3; Sean Nork, MD1; Daphne Beisinger, MD1; 1Harborview Medical Center, Seattle, Washington, USA; 2Washington University School of Medicine, St. Louis, Missouri, USA

4:07 pm
Technical Difficulties in Removal of the Less Invasive Stabilization System
Takashi Suzuki, MD; David J. Hak, MD; Wade R. Smith, MD; Philip F. Stahel, MD; Andrea J. Baron, MS; Steven J. Morgan, MD; Denver Health Medical Center, Denver, Colorado, USA

4:13 pm
Discussion

4:18 pm
Hinged External Fixation in the Treatment of Knee Dislocations: A Prospective Randomized Study
James P. Stannard, MD; Kevin J. Thompson, MD; David A. Volgas, MD; Rena L. Stewart, MD; The University of Alabama at Birmingham, Birmingham, Alabama, USA

4:24 pm
Arthrofibrosis of the Knee following Lower Extremity Trauma Treated with Arthroscopic Lysis of Adhesions and Manipulation
Carole Vetter, MD; Jared Tyson, MD; David Hergan, MD; Gregory Schmeling, MD; Medical College of Wisconsin, Milwaukee, Wisconsin, USA

4:30 pm
Discussion

4:35 pm
Long-Term Functional Outcomes following Operatively Treated Patella Fractures
Christopher R. LeBrun, MD; Joshua R. Langford MD; H. Claude Sagi, MD; Orthopaedic Trauma Service, Tampa General Hospital, Tampa, Florida, USA

Names in Bold = Presenter

Pre-registration deadline September 9 — Registration form on page 35 of Booklet.
Saturday, October 10, 2009, continued

4:41 pm  CT Analysis and Functional Outcomes of Tibial Plateau Fractures Treated with ORIF and a Calcium Sulfate / Calcium Phosphate Composite Graft  
William M. Ricci, MD; J. Tracy Watson, MD; Joseph Borrelli, MD; Timothy Weber, MD; Robert H. Choplin, MD, FACR; Scott A. Persohn, RT (R), (MR);  
1Washington University, St. Louis, Missouri, USA;  
2St. Louis University, St. Louis, Missouri, USA;  
3University of Texas SW, Dallas, Texas, USA;  
4OrthIndy, Indianapolis, Indiana, USA;  
5Indiana University, Indianapolis, Indiana, USA  

4:47 pm  Fracture Pattern and Fixation Type Related to Loss of Reduction in Bicondylar Tibial Plateau Fractures  
Michael J. Weaver, MD; Adam C. Strom, BS; R. Malcolm Smith, MD; Mitchel B. Harris, MD; David Lhowe, MD; Mark S. Vrahas, MD;  
1Brigham and Women’s Hospital, Boston, Massachusetts, USA  
2Dartmouth University, Hanover, New Hampshire, USA  
3Massachusetts General Hospital, Boston, Massachusetts, USA  

4:53 pm  Discussion  

4:58 pm  Knee Pain after Tibial Nailing Correlates with Union  
Scott Ryan, MD; Paul Tornetta, III, MD; Cassandra Diehlart, MD; Elizabeth Knill Kaye, PhD; Boston University Medical Center, Boston, Massachusetts, USA  

5:04 pm  Randomized, Prospective Comparison of Plate versus Intramedullary Nail Fixation for Distal Tibia Shaft Fractures  
Heather A. Vallier, MD; Beth Ann Cureton, BS; Brendan M. Patterson, MD; MetroHealth Medical Center, Cleveland, Ohio, USA  

5:10 pm  Discussion  

5:15 pm  ADJOURN  

The OTA welcomes the members of the Orthopaedic Rehabilitation Association  
ORA presents a session for their members on Saturday, October 10 at the Manchester Grand Hotel.  
For Schedule and Registration contact the ORA staff office:  
216-401-7908 FAX: 216-283-6433 mersoleil@aol.com www.orthorehabassoc.org  

1:15 pm  OTA / ORA Mini-Symposium: Heterotopic Ossification: Highlights & Considerations  
See OTA registration form to register for this afternoon session (S-12).  

3:15 pm  Return to OTA Annual Meeting  
John Border Memorial Lecture  

Please share the following excellent educational opportunity with residents.  

The OTA Comprehensive Fracture Course for Residents is offered  
October 7 - 10, 2009  
at the Manchester Grand Hyatt Hotel.  
Co-chairs: Steven J. Morgan, MD Laura J. Prokuski, 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 online registration.  

Steven J. Morgan, MD  
Names in Bold = Presenter
Disclaimer
The material presented at the 25th 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 25th 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 19+ 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 11.5 AMA PRA Category 1 Credits™. The Mass Casualty Management Course offers a maximum of 8 AMA PRA Category 1 Credits™. The Masters Level Trauma Coding Course offers a maximum of 6.25 AMA PRA Category 1 Credits™. The International Orthopaedic Trauma Care Forum offers a maximum of 5.75 AMA PRA Category 1 Credits™ and The Young Practitioners Forum offers a maximum of 3.75 AMA PRA Category 1 Credits™.
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 Elizabeth 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 9** will not be processed; **on-site registrations will require an additional $100 late fee.** On-line registrations prior to **September 16** 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 mail or e-mail. Badges will be mailed to those registered by September 9.
- 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 9 or on-line registrations after September 16 will be accepted on-site plus an additional $100 late fee).
- On-site Registration for all Meeting Events will be available at the Douglas Pavilion Foyer as follows:
  - 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 expiration date & signature and FAX form directly to: (847)823-0536
- **Check** made payable to OTA and drawn from a US bank in US dollars.
  - Mail form and check to: OTA
    - 6664 Eagle Way
    - Chicago IL 60678-1066, USA
- Registrations sent via Courier must be sent to the OTA staff office: 6300 N. River Road, Suite 727, Rosemont, IL 60018.

Cancellations & Refunds
NO REFUNDS AFTER September 23, 2009
- 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.

Accommodations

Deadline for reservations: September 1, 2009

The Manchester Grand Hyatt Hotel San Diego

The OTA has secured discounted room rates at the Manchester Grand Hyatt San Diego. Hotel Reservations should be made no later than September 1st.

The Annual Meeting will take place at the Manchester Grand Hyatt Hotel.

Rates: Single/Double = $250.00 + 12.5% tax

- Online reservations are recommended. Reservations can be made on-line via the OTA website www.ota.org. Be sure to mention you are with the OTA.
- 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 552KC. 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 Diego

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

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

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

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

To learn more about San Diego, check out these websites:

- San Diego Convention and Visitors Bureau: http://www.sandiego.org/
- The City of San Diego: http://www.sandiego.gov/
- Gaslamp District: www.gaslamp.org

Transportation

To/From San Diego International Airport

It is approximately a 10-minute drive from the San Diego International Airport to the Manchester Grand Hyatt.

A cab ride from the airport to the hotel costs approximately $12. There are several companies who provide taxicab service at the airport; simply follow the signs leading to the Transportation Plazas.

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

**Friday, October 9, 2009**

6:45 - 7:45 am

**Case Presentations**

**Problems Solved in Proximal Humerus Fractures** (#F-1)

With the invention of locking plates there is an increased interest in fixation of proximal humerus fractures. On the other hand, crpp is still commonly used. Regardless the type of treatment complications are not rare. *(Gorczyca and Kandemir)*

**Pelvis and Acetabulum** (#F-2)

This symposium will review the current management of pelvic and acetabular trauma from the initial resuscitation, through internal and external fixation, and finishing with the expected results after treatment. *(Tornetta)*

**Common Pediatric Fractures** (#F-3)

This symposium will be a case based presentation highlighting new treatment methods and controversies in the care of pediatric fractures. Basic principles of physeal fracture management will be reviewed, as well as specific clinical decision-making for selected injuries. We will review issues related to both upper and lower extremity trauma, focusing on areas where novel approaches have recently been studied, and on areas that remain contentious. *(Frick)*

**Research Grant Writing** (#F-4)

This seminar reviews the latest information regarding randomized control trials in orthopaedic trauma, providing the attendee tips for conducting and participating in these trials. *(Bhandari and Miclau)*

**Ankle Fractures** (#F-5)

This session will include case presentations and discussion of a variety of ankle fracture patterns. Focus will be on specific technical issues, pitfalls, innovative treatment approaches, and complicating patient variables. *(Gardner)*

**1:31 - 3:01 pm**

**Skills Labs**

**Clavicle/Proximal Humerus** (#F-6)

*(Webb)*

**IM Nail Proximal Femur** (#F-7)

This lab will address the merits and issues concerning lateral and posterior fibular plating. Posterior Malleolus fractures will be specifically addressed. Syndesmotic injuries will be discussed with regards to fixation techniques and screw retention/removal. *(Dickson)*

**ORIF Proximal Tibia** (#F-8)

In this lab, participants will review new approaches, techniques, and indications for posterior, anterolateral and medial plating for treating complex pilon fractures with plates as well as the role of fibular plating. *(Collinge)*

**Mini Symposia**

**Soft Tissue Coverage for the Non-Microsurgeon** (#F-9)

In orthopaedic trauma care, one must often deal with open wounds from trauma and/or infection. This Mini-Symposium will familiarize the orthopaedic surgeon with the reconstructive ladder for soft tissue coverage, while instructing on local flaps and modalities to help with the coverage of these open wounds without the need for microsurgery. A series of cases will also be presented and discussion of coverage options will be emphasized. *(DeSilva)*

**OTA / ORA Amputation: Indications, Techniques, Outcomes and Rehabilitation** (#F-10)

A combined OTA/ora symposium will begin by highlighting indications and addressing various techniques. Followed by a discussion of outcomes data and a review of basic rehabilitation methods for the amputee. *(Ertl)*

**Considerations and Techniques in the Management of Peri-prosthetic Fractures** (#F-11)

As the number of total joint procedures about the hip and knee continue to increase, complications arising from an aging population with arthroplasty components present are increasing as well. In particular, this symposium will focus on the management of peri-prosthetic fractures about the hip and knee after total joint arthroplasty with emphasis on evaluation of both the fracture as well as the patient. We will also discuss strategies employed to gain optimal outcomes. *(Mehta)*

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Early Morning Case Presentations run concurrently.
Afternoon Skills Labs and Mini Symposia run concurrently.
Tickets are required.
Note your preference on page 35.
Increase your chances for first choice.
Register EARLY at www.ota.org.
Case Presentations, Skills Labs and Mini Symposia Descriptions, continued

Saturday, October 10, 2009

6:45 - 7:45 am

Case Presentations

Elbow Trauma (#S-1)
Based upon a series of clinical cases, this panel session will seek to provide contemporary solutions to both common and complex injuries about the elbow. Audience participation is encouraged. (Jupiter)

Nonunions and Malunions (#S-2)
Case presentations will serve as an open forum for an interactive group discussion with regards to the treatment options for long bone malunions and nonunions. Participants are encouraged to be a part of the discussion by providing opinions on different treatment avenues. (Gold)

Mid-Forefoot (#S-3)
This case presentation will evaluate and discuss injuries of the mid- and forefoot. Topics will include the pathomechanics of the injury and then offer options and discuss approaches for the management of these injuries. (Cole and Herscovici)

Failures and Potential Salvage in Lower Extremity Trauma (#S-4)
Technical intraoperative errors and complications occur regardless of the experience of the surgeon. This series of case presentations is designed to highlight common suboptimal fracture fixation distal to the hip, how and when to recognize it, and the specific techniques which can be used to correct these errors. Participants are encouraged to submit blinded cases to the moderator for additional discussion and review. (Horwitz)

Nonunions and Malunions (#S-5)
Improving decisions and saving lives; management of hemorrhagic shock associated with severe pelvic fractures; what every Orthopaedic surgeon should know. (Hak)

1:15 - 2:45 pm

Skills Labs

Distal Radius (#S-6)
This hands-on skill session will be highlighted by interactive case discussions as well as experienced faculty providing pitfalls and pearls of the operative approaches to fractures of the distal radius. (Jupiter)

ORIF Distal Femur (#S-7) (Sirkin)
ORIF Distal Tibia (#S-8) (Liporace)

Mini Symposia

Treatment of Orthopaedic Infections (#S-9)
This Symposium will be an EBM review of predictors and diagnosis of post op infections as well as review of treatment and results of early and late post op infections. We will present clinical scenarios and related EBM best practices to guide treatment decisions. (Obremskey)

Fragility Fractures & Bone Health: Beyond ORIF (#S-10)
This mini-symposium will provide information and allow discussion related to the appropriate OVERALL care for patients who sustain fragility fractures, with a particular focus on care that goes beyond fracture fixation. Current treatment guidelines will be discussed, upcoming regulatory measures will be described, and a variety of existing programs will be presented. The most successful solution will not involve orthopaedists alone, but will be based in partnership between hospitals, orthopaedists, and other physicians and providers in a community. (Dirschl)

Orthopaedic Traumatologist as Educator (#S-11)
Many Orthopaedic Traumatologists at Level I Trauma Centers frequently interact with residents and trainees in a wide range of differing medical specialties. The ability to educate those who we work with significantly improves the care of our patients. This symposium is directed to improving the educational processes within the scope of delivering orthopaedic trauma care, with the goal of improving our understanding of the teaching process and our role as educators. (Watson)

OTA / ORA Mini-Symposium: Heterotopic Ossification: Highlights & Considerations (#S-12)
The severity and breadth of injuries being evaluated and treated by orthopaedic surgeons has dramatically changed over the decades. The increased survivorship of our patients from Theatre as well as the “civilian battlefield” due to enhanced body armor and improved first-responders has resulted in increased rates and complexity of heterotopic ossification after blunt trauma. (Mehta)

Early Morning Case Presentations run concurrently.
Afternoon Skills Labs and Mini Symposia run concurrently.
Tickets are required.
Note your preference on page 35.
Increase your chances for first choice.
Register EARLY at www.ota.org.
(Please Print)

Name ____________________________________________________________________________________________

Address __________________________________________________________________________________________

City __________________ State __________ Country ______ Zip ________________________________

Phone (_____) ___________ Fax (_____) ___________ E-mail _________________________________

ANNUAL MEETING REGISTRATION FEES - U.S. Funds

OTA Member (including PGY 1-5 Candidate Members) $ 125.00 USD ☐
Post-Resident Candidate OTA Member / International OTA Member $ 325.00 USD ☐
Non-member $ 725.00 USD ☐
Non-member Resident 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 7  Pre-Meeting Opportunities

I will attend ☐ $ 200.00

Disaster & Mass Casualty Mgmt Course

MASTERS LEVEL TRAUMA CODING COURSE

International Trauma Care Forum

International Reception

BASIC SCIENCE FOCUS FORUM

BASIC SCIENCE FOCUS FORUM ONLY

Thursday, October 8

Young Practitioner’s Forum I will attend ☐ $ 0.00

Welcome Reception (Thursday) - Registrant I will attend ☐ $ 0.00

Guest Reception Ticket(s) # of Guests: _________ @ $65.00 USD ea = $ ___________________

Friday, October 9

Women in Orthopaedic Trauma Luncheon I will attend ☐ $ 0.00

Military Reception I will attend ☐ $ 0.00

Mini Symposia, Skills Labs, or Case Presentations (See www.ota.org for descriptions.)

Friday, October 9

1st Choice # _________

Friday 6:45 am: Case Presentations (#F-1 – F-5)

2nd Choice # _________

Friday 1:31 pm: Skills Labs or Mini Symposia (#F-6 – F-11)

Saturday, October 10

1st Choice # _________

Saturday 6:45 am: Case Presentations (#S-1 – S-5)

2nd Choice # _________

Saturday 1:15 pm: Skills Labs or Mini Symposia (#S-6 – S-12)

Concurrent Sessions:

LIST TOP TWO CHOICES

Concurrent Sessions:

LIST TOP TWO CHOICES

Postmarked by: September 9, 2009.
Fees increased $100 on site.

☑ Check Enclosed TOTAL FEES: $ ____________ USD

☑ MasterCard ☑ Visa ☑ AMEX Card Number: ____________________________

Expiration: ___________ Signature: __________________ Amount: $ ____________ USD

REFUNDS:
OTA office must receive written notice of cancellation by September 23, 2009 for a refund less a $100.00 USD processing fee.
Absolutely no refunds after September 23, 2009.

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

REGISTER ON-SITE AFTER SEPTEMBER 9, 2009 - AN ADDITIONAL $100 USD FEE WILL APPLY.
2009 Annual Meeting Checklist

Have you...

☐ Completed the Meeting Registration Form (page 35)?
☐ Indicated your preferences for Break-Out Sessions (page 35)?
☐ Included your Payment with the Registration Form?
☐ Made your hotel reservation with the Manchester Grand Hyatt Hotel?
   ALL hotel reservations need to be made online. Use the link on www.ota.org.

Register on-line 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
6664 Eagle Way
Chicago, IL 60678-1066 USA

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

Registration faxed or post-marked by September 9, 2009.
Register on-line before September 16, 2009.

For More Information
Call (847)698-1631, E-mail ota@aaos.org
or visit the OTA web site, www.ota.org.
ARE YOU A MEMBER
OF THE ORTHOPAEDIC TRAUMA ASSOCIATION?

If not, join OTA and enjoy the following benefits of belonging to this unique organization!

Benefits of OTA Membership

- **Professional Development** - the OTA consistently offers an array of specific trauma related educational sessions, case presentations, and hands-on workshops with an opportunity for candid discussions and consultations.

- **Networking Opportunities** - through the OTA mentoring program, newsletter, web site, Annual Meeting and Specialty Day, network with other traumatologists, participate in multi-center research opportunities and attain start-up funds for scientific research grants.

- **Leadership** - by becoming actively involved in OTA, you help shape the future of orthopaedic trauma research, education and health policy.

- **Member Discounts** - OTA Annual Meeting and OTA Specialty Day Meeting Registration.

- **Publications** - receive a complimentary or discounted subscription of the *Journal of Orthopaedic Trauma* and complimentary *Fracture Lines* Newsletter.

- **Research** - eligible to apply for orthopaedic trauma research grants.
  - Access to the *Trauma Registry Database* issued to members only to track patient outcomes and to participate in multi-center research studies.

- **Active Duty Military** - membership fees waived.

Membership Categories

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<tr>
<th>Active</th>
<th>Community</th>
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<tr>
<td>Allied Health</td>
<td>International</td>
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<tr>
<td>Associate</td>
<td>International Community</td>
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<tr>
<td>Candidate (Residents &amp; Fellows)</td>
<td>Research</td>
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</tbody>
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For requirements and membership application, visit the OTA web site: www.ota.org.

**DEADLINE:** November 1, 2009
Register Now for the
2009 OTA Annual Meeting
at www.ota.org.
Pre-registration Deadline: September 9, 2009
Hotel Deadline: September 1, 2009