

MID-AMERICA ORTHOPAEDIC ASSOCIATION



Thirty-First Annual Meeting



April 17-21, 2013
Omni Amelia Island Plantation
Amelia Island, Florida

Preliminary Program and Registration Information

Visit www.maoa.org to register online
Registration Deadline – March 15, 2013

Pre-Meeting Course – Wednesday, April 17, 2013
**“Current Concepts in the Management of Hip Disorders:
Pediatrics, Preservation, Trauma, and Arthroplasty”**

Dear Colleagues:

Enclosed is the Preliminary Program for Mid-America Orthopaedic Association's 2013 Annual Meeting at Amelia Island, Florida, April 17-21. Amelia Island has always been a popular destination for the MAOA meeting, and becomes even more inviting with the renovated transformation of this beautiful northern Florida coastal resort. It promises to be an exciting venue for all participants, and is an extremely family-friendly destination.

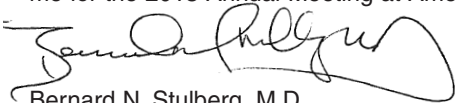
Program Chair, Dr. Andrew Markiewitz, and the Program Committee – Drs. Craig Della Valle, Brian Wolf, Mark Froimson, Anthony Guanciale, and Jeffrey McLaughlin – have put together a stellar program that addresses a wide range of orthopedic issues at a very high level. This year the Program Committee and its Ad Hoc Committee reviewed a record number of abstracts, which led to our most robust program ever. As you'll see from the preliminary program, there are multiple concurrent subspecialty breakout sessions each day, four Instructional Courses, and the largest poster session to date.

We are again offering a focused one-day pre-meeting course on Wednesday, April 17, 2013, co-sponsored with the International Congress for Joint Reconstruction that will be directed toward orthopedic issues related to the hip. Craig Della Valle will chair this year's course, and has put together an outstanding faculty that will address a variety of topics related to important pediatric, young adult, trauma, and adult reconstructive issues of the hip. This opportunity to focus specifically on one geographic area in orthopedics over a broad range of conditions has been popular among our members, offering current concepts of diagnosis and management, in an environment that facilitates exposure to experts and a wonderful learning environment. The course will be geared toward orthopedic residents and new in practice orthopedists.

Our Presidential Guest Speaker will be Dr. Joseph Buckwalter, one of the true pioneers in articular cartilage research, who will speak on *Advances in Understanding of Post-Traumatic Osteoarthritis – Implications for Treatment of Joint Injuries*. The Howard Steel Lecturer will be Dr. Magnus Bernhardtsson, Professor of History at Williams College, who will address the interesting topic of *Understanding the Middle East: Making Sense of Religion, Radicals, and Revolutionaries in this Troubled Region*. Our Rapp Lecturer will be Dr. Dane Miller, founder and former CEO of Biomet Corporation, speaking on *Orthopedic Product Technology: 1950-2000 and "The Future"*. Our three Classics Speakers will be Jesse Jupiter, M.D., speaking on *The Distal Radius Fracture: A Historical Perspective*, Ham Peterson, M.D., speaking on *Physeal Injuries Other Than Fracture*, and Timothy M. Wright, Ph.D., whose talk will be *Lessons from Retrieval Analysis of Orthopedic Implants*.

In addition to our outstanding educational program, the venue for our meeting next April is sure to offer you and your family a wonderful experience. The resort features luxurious accommodations, family-friendly activities, a beautiful pool area, and 3½ miles of pristine beaches. In addition to the planned golf and tennis tournaments, sailing, horseback riding, and riverboat tour, the resort offers other options that are unique to Florida. Whether it is hiking, biking, nature kayaking, guided Segway tours, or shopping, the Omni Amelia Island Plantation offers something for everyone!

Please mark your calendars and make plans to join my wife, Carolyn, our children, and me for the 2013 Annual Meeting at Amelia Island!



Bernard N. Stulberg, M.D.
President
Mid-America Orthopaedic Association

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REGISTRATION INFORMATION

Registration for the 2013 Annual Meeting
will be done online through Mid-America's web site.
Please visit www.maoa.org
to register for the meeting and reserve a hotel room.
Make plans early to attend a great meeting.

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the American Academy of Orthopaedic Surgeons and Mid-America Orthopaedic Association.

The American Academy of Orthopaedic Surgeons is accredited by the ACCME to sponsor continuing medical education for physicians.

CME ACCREDITATION

The American Academy of Orthopaedic Surgeons designates this educational activity for a maximum of 33.50* *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**9 CME Credits for MAOA/ICJR Pre-Meeting Course*

**15.50 CME Credits for Scientific Program*

**3 CME Credits for Scientific Poster Sessions*

**6 CME Credits of Multimedia Education Sessions*

OBJECTIVES

Objective 1: Describe outcomes and provide technical tips for complex primary and revision knee and hip arthroplasty, including the appropriate selection of patients and selection of surgical procedures.

Objective 2: Discuss indications for surgical management of sports-related injuries to the upper extremity and knee.

Objective 3: Provide an overview of recent technical advances in the area of musculoskeletal trauma and reconstructive surgery.

Objective 4: Provide an opportunity for subspecialists to discuss their research in a supportive environment further stimulating research and innovation.

Objective 5: Review the current challenges and latest information regarding musculoskeletal tumor surgery, pediatric orthopedics, hand, and foot and ankle surgery.

Objective 6: Describe state of the art treatment for traumatic and degenerative spine disorders.

Objective 7: Describe the current techniques and outcomes after hip joint preservation surgery.

Objective 8: Discuss risk factors for and methods of prevention of perioperative complications and hospital readmissions.

Objective 9: Describe state of the art treatment for traumatic and degenerative shoulder disorders.

Objective 10: Discuss current research across specialty fields of orthopedic surgery to encourage further improvements in surgery to benefit patient outcomes.

DISCLAIMER

The data, conclusions, and opinions presented by those who speak or exhibit at Mid-America Orthopaedic Association sponsored meetings or who serve as authors in its publications, are solely the responsibility of those individuals or exhibitors and are not to be considered those of the Association, which takes no responsibility for them. The Association does not endorse any products.

MID-AMERICA ORTHOPAEDIC ASSOCIATION

PRELIMINARY PROGRAM

Thirty-First Annual Meeting

April 17-21, 2013

TUESDAY, APRIL 16, 2013

6:00 p.m. - 8:00 p.m.
Registration

WEDNESDAY, APRIL 17, 2013

6:30 a.m. - 8:00 p.m.
Registration

7:00 a.m. - 5:00 p.m.

“Current Concepts in the Management of Hip Disorders: Pediatrics, Preservation, Trauma, and Arthroplasty”
Pre-meeting course jointly sponsored by Mid-America Orthopaedic Association and the International Congress for Joint Reconstruction

Course Chair: Craig J. Della Valle, M.D.

OBJECTIVES

1. Update and consolidate knowledge on the evaluation and treatment of pediatric hip disease including dysplasia and Perthes Disease
2. Update and consolidate knowledge on the evaluation and treatment of traumatic hip
3. Update and consolidate knowledge on the evaluation and treatment of the young adult with hip disease
4. Review specialized techniques for primary and revision total hip arthroplasty and the diagnosis and treatment of the most common complications following THA

Pediatric Hip Conditions: Current Concepts and Controversies

- Legg Calve Perthes Disease – Amy L. McIntosh, M.D., Rochester, MN, Moderator
- Developmental Hip Dysplasia (birth to adolescence) – Christine B. Caltoun, M.D., Indianapolis, IN
- Slipped Capital Femoral Epiphysis – Jeffrey E. Martus, M.D., Nashville, TN

Young Adult Hip

- General Concepts of Treatment Decision-Making / Indications and Technique of the Periacetabular Osteotomy
John C. Clohisy, M.D., St. Louis, MO, Moderator
- History and Examination / Indications and Technique of Hip Arthroscopy
Ryan M. Nunley, M.D., St. Louis, MO

- Radiographic Analysis and Imaging / Indications and Technique of Hip Surgical Dislocation
Robert T. Trousdale, M.D., Rochester, MN

Trauma

- Operative Treatment of Displaced Femoral Neck Fractures in Young Patients / Nonoperative Treatment of Pelvic Fractures
David C. Templeman, M.D., Minneapolis, MN, Moderator
- Femoral Neck Fractures in the Elderly: Pin, Hemi, or Total Hip Arthroplasty? / Current Concepts in the Treatment of Posterior Wall Acetabular Fractures
James A. Goulet, M.D., Ann Arbor, MI
- Intertrochanteric Fracture: Sliding Hip Screw, Short or Long IM Nail? / Managing Complications of Proximal Femoral Fractures
S. Andrew Sems, M.D., Rochester, MN

Adult Reconstruction

- Diagnosis of Periprosthetic Joint Infection
Craig J. Della Valle, M.D., Chicago, IL, Moderator
- Bearing Surface Options / THA in Dysplasia
Daniel J. Berry, M.D., Rochester, MN
- Component Positioning in THA / Component Choices in Revision THA
R. Michael Meneghini, M.D., Fishers, IN
- Uncemented Tapered Femoral Component in Primary THA
Jeffrey R. McLaughlin, M.D., Oshkosh, WI
- Corrosion Issues Implant Retrieval Studies
Joshua J. Jacobs, M.D., Chicago, IL

Join us one day prior to the MAOA Annual Meeting for this CME event of didactic lectures, case studies, interactive audience discussions, and bioskills workshops. Fee: \$250 for practicing orthopedists and \$150 for residents, fellows, medical students, and allied health. To register, visit the MAOA web site (www.maoa.org). Click on “2013 Annual Meeting”. 9 Category 1 CME credits will be offered for this one-day course. For more information, go to the ICJR (www.icjr.net) or MAOA (www.maoa.org) web sites.

5:00 p.m.
Board of Directors' Meeting

6:30 p.m.
Exhibitors' Meeting

7:00 p.m. - 9:00 p.m.
Welcome Reception and Buffet
Price: Included in Registration Fee for doctors, allied health, and registered spouses/guests
Exhibitor cost: \$120/person
Attire: Casual
A special children's buffet will be available for \$30/child (ages 5-12). Children's tickets may be purchased via the MAOA web site when registering for the meeting.

8:30 p.m. - 10:00 p.m.
Bonfire and S'mores on the Beach
Price: Included in Registration Fee for doctors, allied health, and registered spouses/guests

THURSDAY, APRIL 18, 2013

6:00 a.m. - 1:00 p.m.
Registration

6:30 a.m. - 8:00 a.m.
Company-Sponsored Workshops
(No CME offered)

7:30 a.m. - 1:00 p.m.
Exhibits/Posters Open (continental breakfast available from 7:30 a.m. - 9:00 a.m. in exhibit area)

8:30 a.m. - 10:30 a.m.
Spouse/Guest Hospitality
Breakfast
9:30 a.m. - Welcome by Mrs. Carolyn Stulberg
9:45 a.m. - "The Over Programmed Child: Making Time to Play" presented by Mrs. Carolyn Stulberg

FIRST PLENARY SESSION

8:05 a.m. - 10:30 a.m.

8:05 a.m. - 8:10 a.m.
Introductory Remarks
Bernard N. Stulberg, M.D.
Cleveland, OH
President, Mid-America Orthopaedic Association

8:10 a.m. - 8:20 a.m.
AAOS Report
Joshua J. Jacobs, M.D.
Chicago, IL
2013-2014 AAOS President

8:20 a.m. - 8:30 a.m.
Metal-on-Metal Total Hip Replacements:
What Have We Learned?
Joshua J. Jacobs, M.D.
Chicago, IL

8:30 a.m. - 10:00 a.m.

1. Long-Term Outcomes of Modified Eden-Lange Tendon Transfer for Symptomatic Trapezius Paralysis from Spial Accessory Nerve Injury
Eric R. Wagner, M.D.
Rochester, MN
*Bassem T. Elhassan, M.D.
Rochester, MN
2. Comparative Effectiveness of Prophylactic Antibiotic Choice and Surgical Infection in Arthroplasty
*Brent A. Ponce, M.D.
Birmingham, AL
Benjamin T. Raines, B.S.
Birmingham, AL
Catherine Vick, M.P.H., M.T. (ASCP)
Birmingham, AL
Joshua Richman, M.D.
Birmingham, AL
Mary Hawn, M.D.
Birmingham, AL
3. Randomized Clinical Trial Comparing Acetabular Cup Insertion: Patient Specific vs. Standard Surgical Instrumentation
*Travis J. Small, D.O.
Cleveland, OH
Viktor E. Krebs, M.D.
Cleveland, OH
Robert Molloy, M.D.
Cleveland, OH
Travis H. Smith, D.O.
Cleveland, OH
Jason Bryan, M.S.
Cleveland, OH
Alison K. Klika, M.S.
Cleveland, OH
Wael K. Barsoum, M.D.
Cleveland, OH
Amar Mutnal, M.D.
Cleveland, OH

4. Factors Associated with Nonunion in 100 Consecutive Type 2 and Type 3 Odontoid Fractures in Elderly Patients
Michael T. Merrick, M.D.
Grand Rapids, MI
*Casey L. Smith, M.D.
Grand Rapids, MI
Debra L. Sietsema, Ph.D., R.N.
Grand Rapids, MI
Tan Chen, M.S.
Grand Rapids, MI
Tammy Beckett, R.N.
Grand Rapids, MI
Clifford B. Jones, M.D.
Grand Rapids, MI
James R. Stubbart, M.D.
Grand Rapids, MI
Scott S. Russo, M.D.
Grand Rapids, MI
 5. Predictors of Recurrent Instability Following Acute Patelofemoral Dislocation in Pediatric and Adolescent Patients
Laura W. Lewallen, M.D.
Rochester, MN
*Amy L. McIntosh, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
 6. Factors Associated with Functional Recovery of Obstetric Brachial Plexus Injuries
*Eric R. Wagner, M.D.
Rochester, MN
Bassem T. Elhassan, M.D.
Rochester, MN
 7. The Development of an Inexpensive and Reproducible Model for Evaluating the Biomechanical Effects of a Discectomy
*Gregory D. Schroeder, M.D.
Chicago, IL
Michael R. Murray, M.D.
Chicago, IL
Jason W. Savage, M.D.
Chicago, IL
Michael Nickoli, M.D.
Chicago, IL
Jason Ghodasra, M.D.
Chicago, IL
Kai Chen, M.D.
Chicago, IL
Xin Guo, M.D.
Chicago, IL
Erin K. Hsu, Ph.D.
Chicago, IL
Li-Quan Zhang, M.D.
Chicago, IL
Wellington K. Hsu, M.D.
Chicago, IL
 8. Decrease in Dislocation After Primary THA with Use of Larger Femoral Heads: An Update on a Previous Series
*Kevin I. Perry, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
Daniel J. Berry, M.D.
Rochester, MN
 9. Accumulation of Fibrin Affects Fracture Healing in the Murine Model
*Masato Yuasa, M.D.
Nashville, TN
Cesar S. Molina, M.D.
Nashville, TN
Jonathan G. Schoenecker, M.D.
Nashville, TN
 10. Discharge Disposition Following Joint Replacement: Effect of Surgeon Preference
*Mark I. Froimson, M.D.
Cleveland, OH
Seth Vilensky, M.D.
Cleveland, OH
- 10:00 a.m. - 10:30 a.m.
CLASSICS IN ORTHOPAEDICS
The Distal Radius Fracture: A Historical Perspective
Jesse B. Jupiter, M.D.
Boston, MA
- 10:30 a.m. - 10:40 a.m.
First Business Meeting
(MAOA Members only)
- 10:30 a.m. - 11:00 a.m.
Poster viewing – presenters will be available.
CME credit will be offered.
(Poster Area)
- 10:30 a.m. - 11:00 a.m.
Coffee Break in Exhibit Area
- 11:00 a.m. - 1:00 p.m.
Breakout Sessions #1, #2, #3, #4, and #5 to run concurrently

BREAKOUT SESSION #1

REVISION ARTHROPLASTY

11:00 a.m. - 1:00 p.m., Thursday, April 18, 2013

11. Can Lesser Trochanteric Iliopsoas Tenotomies Successfully Treat Intra-Articular Iliopsoas-Labral Impingement?
*Samuel R. H. Steiner, M.D.
Madison, WI
James S. Keene, M.D.
Madison, WI
12. The Role of Primary Bearing Type in Revision Total Knee Arthroplasty
Rishi R. Gupta, M.D.
Cleveland, OH
Kevin J. Bloom, B.S.
Cleveland, OH
Joe W. Caravella, B.S.
Cleveland, OH
*Alison K. Klika, M.S.
Cleveland, OH
Yousef Shishani, M.D.
Cleveland, OH
Wael K. Barsoum, M.D.
Cleveland, OH
13. Long-Term Outcomes of the Fixed-Bearing TC III Revision Total Knee Arthroplasty
Eric R. Wagner, M.D.
Rochester, MN
*Benjamin K. Wilke, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
14. The Patella in Revision Total Knee Arthroplasty
*Christopher E. Gross, M.D.
Chicago, IL
Matthew W. Tetreault, B.S.
Pittsburgh, PA
Scott M. Sporer, M.D.
Chicago, IL
Craig J. Della Valle, M.D.
Chicago, IL
15. Revision Total Hip Arthroplasty in Patients 55 Years and Younger
Muyibat A. Adelani, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO
William J. Maloney, M.D.
Redwood City, CA
Karla J. Crook, B.S.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
16. Conversion Total Hip Arthroplasty Following Surgically-Treated Acetabular Fractures
*Kenneth A. Estrera, M.D.
Dallas, TX
Robert D. Russell, M.D.
Dallas, TX
Michael H. Huo, M.D.
Dallas, TX
17. Use of a Modular Tapered Femoral Stem in the Treatment of an Infected Total Hip Arthroplasty: A 5-Year Follow-Up
*Matthew T. Houdek, M.D.
Rochester, MN
Cody C. Wyles, B.S.
Rochester, MN
Paul B. McLendon, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
18. Efficacy of Revision Surgery for Total Hip Arthroplasty Dislocation in the Community
*Tiare E. Salassa, M.D.
Minneapolis, MN
Daniel P. Hoefl, M.D.
St. Paul, MN
Penny J. Tatman, M.P.H.
St. Paul, MN
Susan C. Mehle, B.S.
St. Paul, MN
Terence J. Giese, M.D.
Minneapolis, MN

19. Mid-Term Results for Modular Tapered Femoral Stems for Major Bone Loss in Revision Hip Arthroplasty: A Multi-Center Study
 Gerald E. Alexander, M.D.
 Tampa, FL
 Thomas L. Bernasek, M.D.
 Tampa, FL
 Brian Palumbo, M.D.
 Charlotte, NC
 Paul K. Edwards, M.D.
 Charlotte, NC
 Bryan D. Springer, M.D.
 Charlotte, NC
 *Travis J. Small, D.O.
 Cleveland, OH
 Trevor G. Murray, M.D.
 Cleveland, OH
 George J. Haidukewych, M.D.
 Orlando, FL
20. Radiographically Silent Loosening of the Acetabular Component in Total Hip Arthroplasty
 Anay R. Patel, M.D.
 Chicago, IL
 Geoffrey S. Marecek, M.D.
 Chicago, IL
 *Lalit Puri, M.D.
 Chicago, IL
21. Correlation of Aspiration Results with the Etiology of Aseptic Failure in Total Hip Arthroplasty
 *Peter N. Chalmers, M.D.
 Chicago, IL
 Kevin Hudak, M.D.
 Chicago, IL
 Scott M. Sporer, M.D.
 Chicago, IL
 Brett R. Levine, M.D.
 Chicago, IL
22. Low Re-Infection Rate After Two-Stage Reimplant with Tapered, Modular Stems: Minimum 5-Year Follow-Up
 *Kevin I. Perry, M.D.
 Rochester, MN
 Paul R. Haeder, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
 Daniel J. Berry, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
23. Should Prophylactic Antibiotics Be Withheld Prior to Revision Surgery to Obtain Appropriate Cultures?
 *Matthew W. Tetreault, B.S.
 Pittsburgh, PA
 Nathan G. Wetters, M.D.
 Chicago, IL
 Vinay Aggarwal, M.D.
 Philadelphia, PA
 Michael A. Mont, M.D.
 Baltimore, MD
 Javad Parvizi, M.D.
 Philadelphia, PA
 Craig J. Della Valle, M.D.
 Chicago, IL
- BREAKOUT SESSION #2
 HAND/SHOULDER
 11:00 a.m. - 1:00 p.m., Thursday, April 18, 2013**
24. Examining Orthopedic Resident Reductions of Extra-Articular Distal Radius Fractures
 *Amy T. Moeller, M.D.
 Minneapolis, MN
 Nathaniel J. Slinkard, M.D.
 Detroit, MI
 Sandy Vang
 St. Paul, MN
 Thuan V. Ly, M.D.
 St. Paul, MN
25. Distal Radius Fractures and the Volar Marginal Fragment: Spring Wire Fixation in Addition to Volar Locked Plating
 *Amy M. Moore, M.D.
 Rochester, MN
 David G. Dennison, M.D.
 Rochester, MN
26. Flexible Insertion and Final Rigid, Locked Intramedullary Fixation for Distal Radius Fractures with a Novel Device
 Peter C. Rhee, D.O.
 Rochester, MN
 *David B. Jones, M.D.
 Rochester, MN
 Alexander Y. Shin, M.D.
 Rochester, MN

27. Complications of Volar Plating for Distal Radius Fractures
David M. Brogan, M.D.
Rochester, MN
Hillary A. Becker, M.D.
Rochester, MN
*Ashley C. Walker, ACNP
Rochester, MN
David G. Dennison, M.D.
Rochester, MN
Alexander Y. Shin, M.D.
Rochester, MN
28. Ulnar Collateral Ligament Strain of the Thumb Metacarpophalangeal Joint: Biomechanical Comparison of Two Postoperative Immobilization Techniques
*John R. Lien, M.D.
Ann Arbor, MI
Abishek Julka, M.D.
Ann Arbor, MI
Alexander Brunfeldt, M.S.
Ann Arbor, MI
Jeffrey N. Lawton, M.D.
Ann Arbor, MI
29. Treatment of Sagittal Band Incompetence with Splinting
Jessica Peelman, M.D.
Cincinnati, OH
*Andrew D. Markiewitz, M.D.
Cincinnati, OH
Peter J. Stern, M.D.
Cincinnati, OH
Thomas R. Kiefhaber, M.D.
Cincinnati, OH
30. Cost Analysis for Non-Surgical Treatment of DeQuervain's Tenosynovitis
*Andrew D. Markiewitz, M.D.
Cincinnati, OH
Joyce Wilson, M.D.
Cincinnati, OH
Peter J. Stern, M.D.
Cincinnati, OH
Thomas R. Kiefhaber, M.D.
Cincinnati, OH
31. Contralateral Trapezius Transfer in Patients with Brachial Plexus Injuries to Restore Shoulder Function
Eric R. Wagner, M.D.
Rochester, MN
*Bassem T. Elhassan, M.D.
Rochester, MN
32. Reverse Total Shoulder Arthroplasty in the Osteoporotic Patient
Herrick J. Siegel, M.D.
Birmingham, AL
Brent A. Ponce, M.D.
Birmingham, AL
*Scott P. Orr, M.D.
Birmingham, AL
33. The Influence of Scapular Neck and Glenoid Anatomy on Impingement-Free Motion in Reverse Shoulder Arthroplasty
*David Kovacevic, M.D.
Cleveland, OH
Eric T. Ricchetti, M.D.
Cleveland, OH
David Tomich, B.S.
Cleveland, OH
Meng Xu, Ph.D.
Cleveland, OH
Jason A. Bryan, M.S.
Cleveland, OH
Joseph P. Iannotti, M.D.
Cleveland, OH
34. Bone-Preserving Short Uncemented Reverse Shoulder Arthroplasty: Clinical and Radiographic Outcome
*Steven A. Giuseffi, M.D.
Rochester, MN
Philipp N. Streubel, M.D.
Rochester, MN
John W. Sperling, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
35. The Rotator Cuff Exam: Adding Palpation to Your Diagnostic Armamentarium
*Jason R. Determann, M.D.
Birmingham, AL
Brent A. Ponce, M.D.
Birmingham, AL
Joseph Kundukulam, B.S.
Birmingham, AL
Gerald McGwin, Ph.D.
Birmingham, AL
Anthony Narducci, M.D.
Birmingham, AL
Marshall Crowther, M.D.
Birmingham, AL

36. Failures, Complications, and Re-Operations After Bristow-Latarjet Shoulder Stabilization
 *Michael J. Griesser, M.D.
 Cleveland, OH
 Joshua D. Harris, M.D.
 Columbus, OH
 Brett W. McCoy, M.D.
 Cleveland, OH
 Waqas M. Hussain, M.D.
 Cleveland, OH
 Morgan H. Jones, M.D.
 Cleveland, OH
 Julie Y. Bishop, M.D.
 Cleveland, OH
 Anthony Miniaci, M.D.
 Cleveland, OH
- BREAKOUT SESSION #3**
TRAUMA
11:00 a.m. - 1:00 p.m., Thursday, April 18, 2013
37. The Effects of Earlier Weightbearing on Surgically Treated Intra-Articular Calcaneus Fractures
 *Seung J. Yi, M.D.
 Akron, OH
 Erin M. Prewitt, M.D.
 Akron, OH
 Ronald A. Sismondo, B.S.
 Akron, OH
 David B. Kay, M.D.
 Akron, OH
 Donald Noe, B.S.
 Akron, OH
 Jeffrey T. Junko, M.D.
 Akron, OH
38. The Biomechanical Strength of Three Constructs for Fixation of Distal Fibula Fractures
 *Jason S. Holm, M.D.
 Minneapolis, MN
 Andrew Freeman, M.S.
 Minneapolis, MN
 Patrick Yoon, M.D.
 Minneapolis, MN
 Joan E. Bechtold, Ph.D.
 Minneapolis, MN
39. Hypovitaminosis D in a Diverse, Urban Trauma Population
 *Benjamin S. Zellner, M.D.
 Houston, TX
 John R. Dawson, M.D.
 Houston, TX
 Charles A. Reitman, M.D.
 Houston, TX
40. Do Higher Volumes Result in Better Patient Outcomes for IM Nailing Treatment of Tibia Fractures?
 *Marc F. Swiontkowski, M.D.
 Minneapolis, MN
 SPRINT Investigators
 Hamilton, Ontario, Canada
41. Validation of the OTA Open Fracture Classification with a Limb Threatening Tibia Fractures Prospective Cohort Study
 *Clifford B. Jones, M.D.
 Grand Rapids, MI
 Renan C. Castillo, Ph.D.
 Baltimore, MD
 Anthony R. Carlini, M.S.
 Baltimore, MD
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Kenneth J. Nelson, M.D.
 San Antonio, TX
 Anthony E. Johnson, M.D.
 San Antonio, TX
 Michael J. Bosse, M.D.
 Charlotte, NC
 Ellen J. MacKenzie, Ph.D.
 Baltimore, MD
42. Incidence of Arthroplasty and Secondary Surgeries After Tibial Plateau Fractures
 *Brett D. Crist, M.D.
 Columbia, MO
 Craig Yager, M.D.
 Columbia, MO
 Yvonne M. Murtha, M.D.
 Columbia, MO
 Gregory J. Della Rocca, M.D.
 Columbia, MO
 David A. Volgas, M.D.
 Columbia, MO
 James P. Stannard, M.D.
 Columbia, MO
43. Predictors of Morbidity and Mortality After Hip Fracture: A Study Utilizing the National Trauma Data Bank (NTDB)
 *David Romano, M.D.
 El Paso, TX
 Andrew J. Schoenfeld, M.D.
 El Paso, TX
 E'Stephan J. Garcia, M.D.
 El Paso, TX
 Kenneth J. Nelson, M.D.
 El Paso, TX
 Philip J. Belmont, Jr., M.D.
 El Paso, TX

*Denotes Speaker

44. Radiographic Predictors of Screw Cut-Out for Intertrochanteric Fractures Treated with Cephalomedullary Nails
Michael A. Charters, M.D.
Detroit, MI
*Wael Ghacham, M.D.
Detroit, MI
Jad G. Khalil, M.D.
Detroit, MI
S. Trent Guthrie, M.D.
Detroit, MI
William M. Hakeos, M.D.
Detroit, MI
Clifford M. Les, M.D.
Detroit, MI
Joseph J. Hoegler, M.D.
Detroit, MI
45. How High Can You Go? Retrograde Nailing of Proximal Femur Fractures
*Lisa K. Cannada, M.D.
St. Louis, MO
Kevin M. Kuhn, M.D.
San Diego, CA
Ashley Haegele, M.D.
St. Louis, MO
J. Tracy Watson, M.D.
St. Louis, MO
Southeast Fracture Consortium
46. Retrospective Comparison of Short vs. Long Linear Compression Cephalomedullary Nails for the Treatment of Intertrochanteric Fractures
*Michael A. Charters, M.D.
Detroit, MI
Wael Ghacham, M.D.
Detroit, MI
Andrew Gupta, M.D.
Detroit, MI
Jad G. Khalil, M.D.
Detroit, MI
William M. Hakeos, M.D.
Detroit, MI
Joseph J. Hoegler, M.D.
Detroit, MI
S. Trent Guthrie, M.D.
Detroit, MI
47. Locked vs. Unlocked Cephalomedullary Intramedullary Nails in Stable Intertrochanteric Fractures
*Patrick Kane, M.D.
Providence, RI
Bryan G. Vopat, M.D.
Providence, RI
David Paller, M.S.
Providence, RI
Sarath Koruprolu, B.S.
Providence, RI
Christopher T. Born, M.D.
Providence, RI
48. Mortality After Intertrochanteric Hip Fracture
Michael A. Charters, M.D.
Detroit, MI
Wael Ghacham, M.D.
Detroit, MI
Andrew Gupta, M.D.
Detroit, MI
Jad G. Khalil, M.D.
Detroit, MI
Joseph J. Hoegler, M.D.
Detroit, MI
William M. Hakeos, M.D.
Detroit, MI
*S. Trent Guthrie, M.D.
Detroit, MI
49. The Effect of Distal Interlock Fixation in Both Fresh and Healed Stable Intertrochanteric Fractures
David Paller, M.S.
Providence, RI
Patrick Kane, M.D.
Providence, RI
Bryan G. Vopat, M.D.
Providence, RI
*Sarath Koruprolu, B.S.
Providence, RI
Christopher T. Born, M.D.
Providence, RI

BREAKOUT SESSION #4

SPORTS

11:00 a.m. - 1:00 p.m., Thursday, April 18, 2013

50. Cost-Effectiveness Analysis of ACI: A Comparison of Periosteal Patch vs. Type I/III Collagen Membrane
*Eric M. Samuelson, M.D.
Omaha, NE
David E. Brown, M.D.
Omaha, NE

51. Infrapatellar Branch of the Saphenous Nerve Block for Knee Arthroscopy
Lawrence P. Hsu, M.D.
Agoura Hills, CA
Sanders Oh, M.D.
Chicago, IL
Gordon W. Nuber, M.D.
Chicago, IL
Robert A. Doty, M.D.
Chicago, IL
Mark Kendall, M.D.
Chicago, IL
Stephen M. Gryzlo, M.D.
Chicago, IL
*Ronak M. Patel, M.D.
Chicago, IL
Antoun Nader, M.D.
Chicago, IL
52. CT and MRI Measurements of Tibial Tubercle to Trochlear Groove Distances (TT-TG) Are Not Equivalent
*Christopher L. Camp, M.D.
Rochester, MN
Jeffrey R. Bond, M.D.
Rochester, MN
Mark S. Collins, M.D.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Bruce A. Levy, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
53. Does Anterior Cruciate Ligament Reconstruction Alter Natural History?: A Systematic Review of Long-Term Outcomes
*Peter N. Chalmers, M.D.
Chicago, IL
Nathan A. Mall, M.D.
St. Louis, MO
Mario Moric, Ph.D.
Chicago, IL
Seth L. Sherman, M.D.
Columbia, MO
George P. Paletta, M.D.
St. Louis, MO
Brian J. Cole, M.D., M.B.A.
Chicago, IL
Bernard R. Bach, M.D.
Chicago, IL
54. Supplemental Fixation Using Back-Up Anchors for ACL Reconstructions in the Tibiae with Decreased Bone Mineral Density
Bryan G. Vopat, M.D.
Providence, RI
*David Paller, M.S.
Providence, RI
Anthony Avery, M.D.
Providence, RI
Melissa A. Christino, M.D.
Providence, RI
Patrick Kane, M.D.
Providence, RI
Jason T. Machan, Ph.D.
Providence, RI
Paul Fadale, M.D.
Providence, RI
55. A Translational Method to Assess Tibial Tunnel Volumetric Bone Mineral Density In Vitro and In Vivo
*Peter C. Rhee, D.O.
Rochester, MN
David R. Holmes, Ph.D.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
Bruce A. Levy, M.D.
Rochester, MN
56. The Inter- and Intra-Rater Reliability of Arthroscopic Measurements of Cartilage Defects in the Knee
*David C. Flanigan, M.D.
Columbus, OH
Robert H. Brophy, M.D.
St. Louis, MO
James L. Carey, M.D.
Philadelphia, PA
Joshua M. Mitchell, B.S.
Columbus, OH
William C. Graham, M.D.
Columbus, OH
Robert A. Siston, Ph.D.
Columbus, OH
David Hamilton, M.D.
Lexington, KY
Haikady N. Nagaraja, Ph.D.
Columbus, OH
Christian Lattermann, M.D.
Columbus, OH

57. Epidemiology of Meniscal Injuries in U.S. High School Athletes
David C. Flanigan, M.D.
Columbus, OH
Joshua M. Mitchell, B.S.
Columbus, OH
*William C. Graham, M.D.
Columbus, OH
Dawn Comstock, Ph.D.
Columbus, OH
Tom Best, M.D.
Columbus, OH
58. Return to Sports After Surgical Treatment of Meniscus Tears in the Pediatric and Adolescent Population
*Jeffrey T. Johnston, M.D.
Cleveland, OH
David L. Schub, M.D.
Cleveland, OH
Ariana A. Prinzbach
Cleveland, OH
Rebecca E. Dreyer
Cleveland, OH
Richard D. Parker, M.D.
Cleveland, OH
Paul M. Saluan, M.D.
Cleveland, OH
59. The Value of an On-Field Physical Examination Used in Conjunction with a Survey vs. Survey Alone for Identifying Youth Pitchers with Arm Pain
*Chloe J. Mellecker, B.S.
Iowa City, IA
Gregory L. Scallon, B.S.
Iowa City, IA
Caitlin R. Wooldridge, B.S.
Iowa City, IA
Alan D. Edwards, B.S.
Iowa City, IA
John P. Albright, M.D.
Iowa City, IA
60. The Epidemiology of Single Season Musculoskeletal Injuries in Professional Baseball
Xinning Li, M.D.
New York, NY
*Phillip Williams, M.D.
New York, NY
Hanbing Zhou, M.D.
Worcester, MA
John Steele, M.D.
New York, NY
Struan H. Coleman, M.D.
New York, NY
61. Association of Pain with Overhead Throwing and Upper Extremity Range of Motion and Strength in Collegiate Baseball Players
*Devon Myers
Kirksville, MO
Joe Emery
Kirksville, MO
Mary Manley
Kirksville, MO
Vanessa Kvam, M.S.
Kirksville, MO
Kevin M. Marberry, M.D.
Kirksville, MO
62. The Effect of Oxygen Tension, Hydrogel Suspension, and Rubber-Derived Polymer Seeding on Bioengineered Human Cartilage Implants
*Matthew F. Dilisio, M.D.
Akron, OH
Deborah R. Neal, B.S.
Akron, OH
Walter E. Horton, Jr., Ph.D.
Rootstown, OH
Judit E. Puskas, Ph.D.
Akron, OH
Matthew Luebbbers, Ph.D.
Akron, OH
Scott D. Weiner, M.D.
Akron, OH
Richard A. Mostardi, Ph.D.
Akron, OH

BREAKOUT SESSION #5 HIP ARTHROPLASTY 11:00 a.m. - 1:00 p.m.

63. The Impact of Hip Arthroplasty Type on Proprioception
Brian J. Larkin, M.D.
St. Louis, MO
Ryan M. Nunley, M.D.
St. Louis, MO
Humaa Nyazee, M.P.H., M.T. (ASCP)
St. Louis, MO
John R. Motley, M.S.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO

64. THA with HCLPE in Patients Less Than 50: 10-Year Follow-Up
 *Nikola Babovic, B.S.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
65. Total Hip Arthroplasty in Young Patients: Comparison of Three Bearing Surfaces
 Christopher D. Nelson, D.O.
 Carroll, IA
 John M. Martell, M.D.
 Chicago, IL
 Gail E. Pashos, B.S.
 St. Louis, MO
 John C. Clohisy, M.D.
 St. Louis, MO
66. Minimum 35-Year Follow-Up of Charnley Total Hip Arthroplasty in Patients Less Than 50-Years-Old
 *Lucian C. Warth, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Steve S. Liu, M.D.
 Iowa City, IA
 Alison Klaassen, M.S.
 Iowa City, IA
 Devon D. Goetz, M.D.
 West Des Moines, IA
 Nicolas O. Noiseux, M.D.
 Iowa City, IA
 Richard C. Johnston, M.D.
 Iowa City, IA
67. Limited Clinical Benefit of Intra-Articular Cortisone Injection Prior to Hip Arthroscopy
 *Timothy B. Griffith, M.D.
 Rochester, MN
 Aaron J. Krych, M.D.
 Rochester, MN
 Joshua L. Hudgens, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
 Bruce A. Levy, M.D.
 Rochester, MN
68. Disparity in Total Joint Arthroplasty Based on Insurance Payer Type
 *Christopher T. Martin, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Steve S. Liu, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Richard C. Johnston, M.D.
 Iowa City, IA
69. No Difference in Activity Levels Between Very Young and General Total Hip Arthroplasty Patients Following Surgery
 *Tennison Malcolm, B.S.
 Cleveland, OH
 Alison K. Klika, M.S.
 Cleveland, OH
 Steve Spalding, M.D.
 Cleveland, OH
 Andrew Zeft, M.D.
 Cleveland, OH
 Caleb R. Szubski, B.S.
 Cleveland, OH
 Wael K. Barsoum, M.D.
 Cleveland, OH
70. Determinants of Readmission: An Analysis of 28,041 Elective Arthroplasty Procedures
 *Benjamin T. Raines, B.S.
 Birmingham, AL
 Brent A. Ponce, M.D.
 Birmingham, AL
 Rhiannon Deierhoi, M.P.H., M.T. (ASCP)
 Birmingham, AL
 Joshua Richman, M.D.
 Birmingham, AL
 Mary Hawn, M.D.
 Birmingham, AL
71. Cementless THA Has Higher Incidence and Severity of Thigh Pain Than Surface Replacement
 Ryan M. Nunley, M.D.
 St. Louis, MO
 Peter J. Brooks, M.D.
 Cleveland, OH
 John C. Clohisy, M.D.
 St. Louis, MO
 Staci R. Johnson, M.S.
 St. Louis, MO
 Robert L. Barrack, M.D.
 St. Louis, MO

72. The Effect of Femoral Anteversion on the Outcomes of Arthroscopic Iliopsoas Tenotomies
 *Hsueh-yu W. Cheng, M.D.
 Madison, WI
 Donna G. Blankenbaker, M.D.
 Madison, WI
 James S. Keene, M.D.
 Madison, WI
- Lunch on your own
 1:00 p.m. - 3:00 p.m.
 Multimedia Education
 1:30 p.m.
 Optional Tour – Sailing Charter
 (see page 53)
 1:30 p.m.
 Optional Tour – Horseback Riding
 (see page 53)
 2:00 p.m.
 Mid-America Tennis Tournament
 (see page 54)
 6:00 p.m. - 7:30 p.m.
 Poster viewing – presenters will be available.
 CME credit will be offered.
 (Poster Area)
 6:00 p.m. - 7:30 p.m.
 Reception sponsored by the Exhibitors
 (Exhibit Area)
Attire: Casual
 Dinner on your own
73. Minimum 10-Year Results of a Contemporary Cementless Acetabular Component
 *Tyler Willman, B.S.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Justin Greiner, B.S.
 Iowa City, IA
 Steve S. Liu, M.D.
 Iowa City, IA
 Douglas R. Pedersen, Ph.D.
 Iowa City, IA
 Devon D. Goetz, M.D.
 West Des Moines, IA
74. Significance of MRI Findings of Iliopsoas Atrophy After Arthroscopic Tenotomies
 *Nathan R. Faulkner, M.D.
 Madison, WI
 Donna G. Blankenbaker, M.D.
 Madison, WI
 Kendra S. Hain, M.D.
 Madison, WI
 Arthur A. DeSmet, M.D.
 Madison, WI
 James S. Keene, M.D.
 Madison, WI
75. Direct Anterior vs. Posterior Approach for Total Hip Arthroplasty: A Perioperative Outcomes
 *Amar Mutnal, M.D.
 Cleveland, OH
 Nathania Figueroa, M.D.
 Weston FL
 Steven Hand, M.D.
 Cleveland, OH
 Juan C. Suarez, M.D.
 Weston, FL
 Wael K. Barsoum, M.D.
 Cleveland, OH
 Preetesh D. Patel, M.D.
 Weston, FL

FRIDAY, APRIL 19, 2013

6:00 a.m. - 1:00 p.m.
Registration

6:30 a.m. - 8:00 a.m.
INSTRUCTIONAL COURSE I – Geriatric Fractures: Tips and Techniques for Surgical Treatment

Continental breakfast will be available

Joseph R. Cass, M.D., Moderator
Rochester, MN

William W. Cross, III M.D.
Rochester, MN

Christopher McAndrew, M.D.
St. Louis, MO

S. Andrew Sems, M.D.
Rochester, MN

The topics this year are similar to the 2012 course, but the session has been reorganized. There will be a 10-minute session on each of four topics. The topics are in reference to the geriatric population and are: proximal humeral fractures, peritrochanteric hip fractures, supracondylar femoral fractures, and ankle fractures. Each presenter will list five problem areas for each fracture type and practical methods to deal with these challenges. We will cover topics from positioning to imaging to surgical techniques. The subsequent 20 minutes will emphasize the use of these solutions on a case-by-case basis. During the final 30 minutes, we will review some of our cases with complications in a question and answer format.

6:30 a.m.- 8:00 a.m.

INSTRUCTIONAL COURSE II – Current Concepts in the Diagnosis and Treatment of Forearm, Wrist, and Hand Issues in Upper Extremity Care with Attention to Common Problems, Anatomy, Diagnosis, Treatment, and Outcomes

Continental breakfast will be available

Andrew D. Markiewitz, M.D., Moderator
Cincinnati, OH

David G. Dennison, M.D.
Rochester, MN

Jeffrey N. Lawton, M.D.
Ann Arbor, MI

A select panel of hand surgeons from the University of Michigan, the Mayo Clinic, and the Hand Surgery Specialists of Cincinnati will discuss a broad range of upper extremity concerns. While common problems occur commonly, symptoms can overlap and the diagnosis may be confused affecting treatment and outcome. The panel will highlight the common upper extremity diagnoses in the forearm, wrist, and hand for which a general orthopedic surgeon will care. They will then highlight straightforward approaches to define the diagnosis and select the appropriate management course to optimize the patient's outcome. This will include bone, joint, tendon, and nerve issues from the elbow to the fingertip. Recent literature, salient articles, and examples will be provided to illuminate each diagnosis. Pertinent research, both clinical and basic science, will be reviewed to keep the practicing surgeon up to date. Case examples will keep the discussion frank and lively.

The attendee should benefit from learning what to look for, how to understand the cause, and how to intervene to optimize their patient's care and achieve the best results.

7:30 a.m. - 1:00 p.m.

Exhibits/Posters Open (continental breakfast available from 7:30 a.m. - 9:00 a.m. in exhibit area)

SECOND PLENARY SESSION

8:00 a.m. - 10:35 a.m.

8:00 a.m. - 8:03 a.m.

Assemble/Announcements

*Denotes Speaker

8:03 a.m. - 8:33 a.m.

PRESIDENTIAL GUEST SPEAKER

Advances in Understanding of Post-Traumatic Osteoarthritis – Implications for Treatment of Joint Injuries

Joseph A. Buckwalter, M.S., M.D.
Iowa City, IA

8:34 a.m. - 9:40 a.m.

76. An Association of Lateral Knee Sagittal Anatomic Factors with Non-Contact ACL Injury: Sex or Geometry?
*Robert W. Westermann, M.D.
Iowa City, IA
Christopher J. Wahl, M.D.
Seattle, WA
Gregory Y. Blaisdell, M.D.
Seattle, WA
Amy M. Cizik, M.P.H., M.T. (ASCP)
Seattle, WA
77. The Adverse Effect of Femoral Nerve Blockade on Quadriceps Strength After ACL Reconstruction
*Grigoriy Arutyunyan, M.D.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Scott A. Kuzma, M.D.
Rochester, MN
Bruce A. Levy, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
78. Influence of Bisphosphonate Pretreatment on Osseous Incorporation and Chondrocyte Viability within Fresh Osteochondral Allografts in Cold Storage
*Drew D. Moore, M.D.
Royal Oak, MI
Kevin C. Baker, Ph.D.
Royal Oak, MI
Tristan Maerz, M.D.
Royal Oak, MI
Peter Wilson, B.S.
Royal Oak, MI
Paul T. Fortin, M.D.
Royal Oak, MI
79. FSTL3 Mediates Exercise-Driven Bone Formation
*Derrick M. Knapik, B.S.
Columbus, OH
Priyangi M. Perera, M.S.
Columbus, OH
Jin Nam, Ph.D.
Riverside, CA
David C. Flanigan, M.D.
Columbus, OH
Sudha Agarwal, Ph.D.
Columbus, OH
80. Gene Expression Differences in Young Male and Female Ruptured Anterior Cruciate Ligament Tissue
*Jeffrey S. Johnson, M.D.
Akron, OH
Robin Jacquet, M.S.
Akron, OH
Kerwyn C. Jones, M.D.
Akron, OH
Melanie A. Morscher, B.S.
Akron, OH
William J. Landis, Ph.D.
Akron, OH
81. Dexamethasone Reduces Length of Hospital Stay and Improves Postoperative Pain and Nausea After Total Joint Arthroplasty: A Prospective, Randomized Controlled Trial
*Jeffrey R. Backes, M.D.
Columbus, OH
Joel R. Politi, M.D.
Columbus, OH
Bryan T. Chambers, M.D.
Columbus, OH
Jared C. Bentley, M.D.
Columbus, OH
82. Ten-Year Outcome of Serum Metal Ion Levels After Primary Total Hip Arthroplasty
*Andrew R. Hsu, M.D.
Chicago, IL
Brett R. Levine, M.D.
Chicago, IL
Anastasia K. Skipor, M.S.
Chicago, IL
Nadim J. Hallab, Ph.D.
Chicago, IL
Wayne G. Paprosky, M.D.
Chicago, IL
Jorge O. Galante, M.D.
Chicago, IL
Joshua J. Jacobs, M.D.
Chicago, IL

*Denotes Speaker

83. Differences in Short-Term Complications Between Spinal and General Anesthesia for Primary Total Knee Arthroplasty
 *Andrew J. Pugely, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Christopher T. Martin, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Sergio A. Mendoza-Lattes, M.D.
 Iowa City, IA

- 9:07 a.m. - 9:12 a.m.
Presentation of Mid-America Orthopaedic Association Physician in Training Award Winners
 Edward D. Henderson Award
 E. W. Johnson, Jr. Award
 Carl L. Nelson Award
 Dallas B. Phemister Award

- 9:12 a.m. - 9:40 a.m.
- Edward D. Henderson M.D. Award Presentation
- E. W. Johnson, Jr., M.D. Award Presentation
- Carl L. Nelson, M.D. Award Presentation
- Dallas B. Phemister, M.D. Award Presentation

- 9:40 a.m. - 9:43 a.m.
Introduction of Recipients of Traveling Fellowship, Multipurpose Resident Grants, and Education Grants

- 9:43 a.m. - 9:48 a.m.
 Traveling Fellowship Presentation

- 9:49 a.m. - 9:54 a.m.
 Traveling Fellowship Presentation

- 9:55 a.m. - 10:05 a.m.
Maintenance of Certification (MOC) Presentation
J. Lawrence Marsh, M.D.
Iowa City, IA

- 10:05 a.m. - 10:35 a.m.
CLASSICS IN ORTHOPAEDICS
Physcal Injuries Other Than Fracture
Ham Peterson, M.D.
Rochester, MN

- 10:35 a.m. - 11:00 a.m.
 Poster viewing – presenters will be available.
 CME credit will be offered.
 (Poster Area)

- 10:35 a.m. - 11:00 a.m.
 Coffee Break in Exhibit Area

- 11:00 a.m. - 1:00 p.m.
 Breakout Sessions #6, #7, #8, #9, and #10 to run concurrently

BREAKOUT SESSION #6
TOTAL JOINT COMPLICATIONS
11:00 a.m. - 1:00 p.m., Friday, April 19, 2013

84. Preliminary Data on Use of Tranexamic Acid in High Risk Patients Undergoing Primary Total Hip and Knee Arthroplasty
 *Daniel R. Whiting, M.D.
 Rochester, MN
 Blake P. Gillette, M.D.
 Rochester, MN
 Christopher M. Duncan, M.D.
 Rochester, MN
 Hugh M. Smith, M.D.
 Rochester, MN
 Lori J. DeSimone, P.A.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
85. Predictors of Hospital-Acquired Conditions After Elective Joint Arthroplasty
 *Carlos A. Higuera, M.D.
 Cleveland, OH
 Ronald Huang, B.S.
 Philadelphia, PA
 Javad Parvizi, M.D.
 Philadelphia, PA
86. Combined Measured Resection Predicts Alignment, but not Manipulation Rates in Knee Arthroplasty
 *William B. Kurtz, M.D.
 Nashville, TN

*Denotes Speaker

87. Obesity is a Major Risk Factor for Postoperative Complications After the Periacetabular Osteotomy
Eduardo N. Novais, M.D.
Aurora, CO
G. David Potter, M.D.
Rochester, MN
Patrick Carry, M.D.
Denver, CO
Perry L. Schoenecker, M.D.
St. Louis, MO
Robert T. Trousdale, M.D.
Rochester, MN
Karla Crook
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
Rafael J. Sierra, M.D.
Rochester, MN
88. Decrease in Dislocation Rates in Liner and Head Exchange When Head Size is Increased
*Julian Costantini, M.D.
Curitiba, Parana, Brazil
Miguel E. Cabanela, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
89. Economic Impact of Tranexamic Acid in Healthy Patients Undergoing Primary Hip and Knee Arthroplasty
Blake P. Gillette, M.D.
Rochester, MN
*Lori J. DeSimone, P.A.
Rochester, MN
Christopher M. Duncan, M.D.
Rochester, MN
Hugh M. Smith, M.D.
Rochester, MN
Mark W. Pagnano, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
90. Intraoperative Fracture During Staged Total Knee Reimplantation in the Treatment of Periprosthetic Infection
*Adam A. Sassoon, M.D.
Orlando, FL
Nathaniel J. Nelms, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
91. Early Failure Patterns of a Modern Constrained Acetabular Liner Design
Diren Arsoy, M.D.
Rochester, MN
David G. Lewallen, M.D.
Rochester, MN
*Rafael J. Sierra, M.D.
Rochester, MN
92. Osteolysis and the Acetabular Component in Total Hip Arthroplasty: A Computed Tomography-Based Assessment of Stability
*Anay R. Patel, M.D.
Chicago, IL
Geoffrey S. Marecek, M.D.
Chicago, IL
Mary J. Kwasny, Ph.D.
Chicago, IL
Lalit Puri, M.D.
Chicago, IL
93. Impact of Socioeconomic Factors on Results of Total Knee Arthroplasty
Ryan M. Nunley, M.D.
St. Louis, MO
Erin L. Ruh, M.S.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
Adolph V. Lombardi, Jr., M.D.
New Albany, OH
Keith R. Berend, M.D.
New Albany, OH
William G. Hamilton, M.D.
Alexandria, VA
Craig J. Della Valle, M.D.
Chicago, IL
Javad Parvizi, M.D.
Philadelphia, PA
Robert L. Barrack, M.D.
St. Louis, MO
94. Metal-on-Metal Total Hip Arthroplasty at 5- to 9-Year Follow-Up
*Justin Greiner, B.S.
Iowa City, IA
Steve S. Liu, M.D.
Iowa City, IA
Devon D. Goetz, M.D.
West Des Moines, IA
Craig R. Mahoney, M.D.
Des Moines, IA
John J. Callaghan, M.D.
Iowa City, IA

95. Corrosion at the Head-Neck Taper as a Cause for Adverse Local Tissue Reactions in Total Hip Arthroplasty
 H. John Cooper, M.D.
 Chicago, IL
 *Craig J. Della Valle, M.D.
 Chicago, IL
 Richard A. Berger, M.D.
 Chicago, IL
 Matthew W. Tetreault, B.S.
 Pittsburgh, PA
 Wayne G. Paprosky, M.D.
 Chicago, IL
 Scott M. Sporer, M.D.
 Chicago, IL
 Joshua J. Jacobs, M.D.
 Chicago, IL
96. Synovial Fluid Aspirations in Failed Metal-on-Metal (MOM) Total Hip Arthroplasty (THA)
 *Cody Wyles
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
- BREAKOUT SESSION #7**
SHOULDER/TRAUMA
11:00 a.m. - 1:00 p.m., Friday, April 19, 2013
97. Identifying Outcomes of Humeral Windows and Longitudinal Splits in Patients with Revision Shoulder Arthroplasty – A Study of 427 Patients
 *Shawn Sahota, B.S.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
98. Effects of Glenosphere Positioning on Impingement-Free Internal and External Rotation Following Reverse Total Shoulder Arthroplasty
 Xinning Li, M.D.
 New York, NY
 Zakary Knutson, M.D.
 New York, NY
 Daniel Lobatto, B. S.
 New York, NY
 Joseph Lipman, M.S.
 New York, NY
 *Daniel Choi, M.S.
 New York, NY
 Edward V. Craig, M.D.
 New York, NY
 Russell F. Warren, M.D.
 New York, NY
 Lawrence Gulotta, M.D.
 New York, NY
99. Relationship of Scapular Neck Length to Scapular Notching After Reverse Total Shoulder Arthroplasty Using Plain Radiographs
 *Kevin C. Paisley, D.O.
 Columbia, MO
 Matthew J. Kraeutler, M.D.
 Philadelphia, PA
 Matthew L. Ramsey, M.D.
 Philadelphia, PA
 Mark D. Lazarus, M.D.
 Philadelphia, PA
 Gerald R. Williams, M.D.
 Philadelphia, PA
 Matthew J. Smith, M.D.
 Columbia, MO
100. Second Generation Anatomic Total Shoulder Arthroplasty for Primary Osteoarthritis: Expanded Mid-Term Follow-Up
 *Bradley S. Schoch, M.D.
 Rochester, MN
 Adam A. Sassoon, M.D.
 Orlando, FL
 John W. Sperling, M.D.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN

101. Functional Outcome and Complications After Total Shoulder Arthroplasty in the Obese Patient Population. A Prospective Study with Greater Than Two Years of Follow-Up
*Xinning Li, M.D.
New York, NY
Phillip Williams, M.D.
New York, NY
Andromahi Trivellas, B.S.
New York, NY
Joseph Nguyen, B.S.
New York, NY
Edward V. Craig, M.D.
New York, NY
Russell F. Warren, M.D.
New York, NY
Lawrence Gulotta, M.D.
New York, NY
102. Deltoid Parameters as Outcome Predictors Following Reverse Shoulder Arthroplasty
*James E. Moravek, Jr., M.D.
Royal Oak, MI
Denise Koueiter, M.S.
Royal Oak, MI
Tristan Maerz, M.S.
Royal Oak, MI
David Marcantonio, D.O.
Royal Oak, MI
Brett P. Wiater, M.D.
Royal Oak, MI
J. Michael Wiater, M.D.
Royal Oak, MI
103. Shoulder Arthroplasty for Rheumatoid Arthritis: 303 Consecutive Cases with Minimum 5-Year Follow-Up
*Jonathan D. Barlow, M.D.
Rochester, MN
Brandon J. Yuan, M.D.
Rochester, MN
John W. Sperling, M.D.
Rochester, MN
Robert H. Cofield, M.D.
Rochester, MN
104. Are 2.7 mm Recon Plates Stable Enough for Anteroinferior Plating of Displaced Midshaft Clavicle Fractures?
Martin F. Hoffmann, M.D.
Grand Rapids, MI
*Alex K. Gilde, B.S.
Grand Rapids, MI
Clifford B. Jones, M.D.
Grand Rapids, MI
Debra L. Sietsema, Ph.D., R.N.
Grand Rapids, MI
105. Shoulder Arthroplasty for the Treatment of Postinfectious Glenohumeral Arthritis: An Update
*Benjamin J. Allen, M.D.
Rochester, MN
Bradley S. Schoch, M.D.
Rochester, MN
Joseph Mileti, M.D.
Upper Arlington, OH
John W. Sperling, M.D.
Rochester, MN
Robert H. Cofield, M.D.
Rochester, MN
106. Flexible Insertion and Final Rigid, Locked Intramedullary Fixation for Mid-Diaphyseal Clavicle Fractures with a Novel Device
Peter C. Rhee, D.O.
Rochester, MN
*Hillary A. Becker, M.D.
Rochester, MN
Alexander Y. Shin, M.D.
Rochester, MN
Michael E. Torchia, M.D.
Rochester, MN
107. Does Anteroinferior Fixation of Midshaft Clavicle Fractures Have Lower Rates of Hardware Removal or Complications?
Peter A. Cole, M.D.
St. Paul, MN
Clifford B. Jones, M.D.
Grand Rapids, MI
*Aaron R. Jacobson
St. Paul, MN
Jerald R. Westberg, B.S.
Minneapolis, MN
Alex K. Gilde, B.S.
Grand Rapids, MI
Andrew H. Schmidt, M.D.
Minneapolis, MN

108. The Impact of Tunnels and Biotenodesis Screws on Clavicle Fracture: A Biomechanical Study of Varying Coracoclavicular Ligament Reconstruction Techniques
Guillaume D. Dumont, M.D.
Dallas, TX
Robert D. Russell, M.D.
Dallas, TX
Justin R. Knight, M.D.
Dallas, TX
William A. Pierce, M.S.
Dallas, TX
*William R. Hotchkiss, M.D.
Dallas, TX
Philip L. Wilson, M.D.
Dallas, TX
William J. Robertson, M.D.
Dallas, TX
109. Quantitative Anatomy of the Acromioclavicular Joint and Adjacent Structures on Magnetic Resonance Imaging
*Andrew G Geeslin, M.D.
Kalamazoo, MI
Roman Bloch, M.D.
Kalamazoo, MI
Vani J. Sabesan, M.D.
Kalamazoo, MI
- BREAKOUT SESSION #8**
JOINT
11:00 a.m. - 1:00 p.m., Friday, April 19, 2013
110. Contribution of the Acetabular Labrum to Hip Joint Stability: A Quantitative Analysis Using a Dynamic Three-Dimensional Robot Model
Amar Mutnal, M.D.
Cleveland, OH
*John J. Bottros, M.D.
Cleveland, OH
Robb Colbrunn, M.S.
Cleveland, OH
Robert S. Butler, M.S.
Cleveland, OH
Alison K. Klika, M.S.
Cleveland, OH
Wael K. Barsoum, M.D.
Cleveland, OH
111. Decreased Manipulation Rate with Second Generation Medial Pivot Knee
*Jason M. Rogers, M.D.
Little Rock, AR
C. Lowry Barnes, M.D.
Little Rock, AR
112. Preoperative MRI Underestimates Articular Cartilage Defect Size Compared to Arthroscopy
*Andrew B. Campbell, B.S.
Columbus, OH
Michael V. Knopp, M.D.
Columbus, OH
Greg Kolovich, M.D.
Columbus, OH
Wenbo Wei, B.S.
Columbus, OH
Guang Jia, Ph.D.
Columbus, OH
Robert A. Siston, Ph.D.
Columbus, OH
David C. Flanigan, M.D.
Columbus, OH
113. Early Clinical and Radiographic Outcomes of Combined Hip Arthroscopy and Periacetabular Osteotomy
James R. Ross, M.D.
St. Louis, MO
Gail E. Pashos, B.S.
St. Louis, MO
Perry L. Schoenecker, M.D.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
114. Can Patients Return to High Level Activity After Open Hip Preservation Surgery with Surgical Hip Dislocation and/or Bernese Periacetabular Osteotomy?
Ljilijana Bogunovic, M.D.
St. Louis, MO
Meghan C. Gottlieb, M.S.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO

115. Periacetabular Osteotomy After Failed Treatment with Hip Arthroscopy
 James R. Ross, M.D.
 St. Louis, MO
 John C. Clohisy, M.D.
 St. Louis, MO
 Geneva R. Baca, B.S.
 St. Louis, MO
 Rafael J. Sierra, M.D.
 Rochester, MN
 Ernest L. Sink, M.D.
 Denver, CO
 David A. Podeszwa, M.D.
 Dallas, TX
 Paul E. Beaulé, M.D.
 Ottawa, Ontario, Canada
 Meghan C. Gottlieb, M.S.
 St. Louis, MO
 Michael B. Millis, M.D.
 Boston, MA
 Ira Zaltz, M.D.
 Royal Oak, MI
 ANCHOR Group
 St. Louis, MO
116. Periacetabular Osteotomy Successful at Mid-Term for Treating Mild Hip Dysplasia
 *G. David Potter, M.D.
 Rochester, MN
 Eduardo N. Novais, M.D.
 Aurora, CO
 Robert T. Trousdale, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
117. Is Combined Surgical Hip Dislocation and Bernese Periacetabular Osteotomy a Safe Procedure?
 Ljilijana Bogunovic, M.D.
 St. Louis, MO
 Gail E. Pashos, B.S.
 St. Louis, MO
 Perry L. Schoenecker, M.D.
 St. Louis, MO
 John C. Clohisy, M.D.
 St. Louis, MO
118. Patient Characteristics Affect Anatomic Location of the Femoral Artery About the Hip
 *Vincent M. Moretti, M.D.
 Chicago, IL
 Michael K. Merz, M.D.
 Chicago, IL
 Samuel J. Chmell, M.D.
 Chicago, IL
119. Osteoporotic Distal Femur Fractures Treated with Modular Oncologic Replacement Prostheses
 Herrick J. Siegel, M.D.
 Birmingham, AL
 *Brian Etier, M.D.
 Birmingham, AL
 Jess Mullens, M.D.
 Birmingham, AL
120. Effects of Corticosteroid Injection on Systemic Glucose Levels in Diabetic and Non-Diabetic Patients
 *Mark H. Stouffer, M.D.
 Dayton, OH
 Jason D. Vourazeris, M.D.
 Dayton, OH
 Brian Burke, M.D.
 Dayton, OH
 Uthona Green, R.N.
 Dayton, OH
 Anil B. Krishnamurthy, M.D.
 Dayton, OH
 Ronald Markert, Ph.D.
 Dayton, OH
121. Post-Surgical Inflammatory Neuropathy After Hip Surgery
 Ruple S. Laughlin, M.D.
 Rochester, MN
 P. James B. Dyck, M.D.
 Rochester, MN
 James C. Watson, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
 *Robert T. Trousdale, M.D.
 Rochester, MN
 Nathan P. Staff, M.D.
 Rochester, MN
122. Six-Year Review on Efficacy of Preoperative Vena Cava Filters in Arthroplasty Patients at Risk for Pulmonary Embolism
 *Michael K. Merz, M.D.
 Chicago, IL
 Frank C. Bohnenkamp, M.D.
 Chicago, IL
 Jeffrey M. Goldstein, M.D.
 Chicago, IL
 Jill Branson, R.N.
 Morton Grove, IL
 Wayne M. Goldstein, M.D.
 Morton Grove, IL

BREAKOUT SESSION #9

PEDIATRICS

11:00 a.m. - 1:00 p.m., Friday, April 19, 2013

123. Physeal Gene Expression and Structure from Different Anatomic Regions in Two Species
 *Steven Widmer, M.D.
 Akron, OH
 Robin Jacquet, M.S.
 Akron, OH
 Mark Shasti, B.S.
 Akron, OH
 William J. Landis, Ph.D.
 Akron, OH
 Mark J. Adamczyk, M.D.
 Akron, OH
 Melanie A. Morscher, B.S.
 Akron, OH
 Richard Steiner, Ph.D.
 Akron, OH
 Dennis S. Weiner, M.D.
 Akron, OH
124. Internal Fixation of Unstable Juvenile Osteochondritis Dissecans Lesions of the Knee
 *Jonathan E. Webb, M.D.
 Rochester, MN
 Hillary A. Becker, M.D.
 Rochester, MN
 Laura W. Lewallen, M.D.
 Rochester, MN
 Aaron J. Krych, M.D.
 Rochester, MN
 Amy L. McIntosh, M.D.
 Rochester, MN
125. Nonunion After Triple Arthrodesis in Children – Does It Really Matter?
 *Eric Wicks, M.D.
 Rootstown, OH
 Meadow Wilson, B.S.
 Akron, OH
 Melanie A. Morscher, B.S.
 Akron, OH
 Dennis S. Weiner, M.D.
 Akron, OH
126. Poor Applicability of Radiographic Signs for Femoroacetabular Impingement in Pediatric Populations
 Vincent M. Moretti, M.D.
 Chicago, IL
 *Leslie E. Schwindel, M.D.
 Chicago, IL
 Prasad V. Gourineni, M.D.
 Chicago, IL
127. Pediatric Supracondylar Humerus Fractures: Trends in Pin Placement
 Christopher Larkins, B.S.
 Tucson, AZ
 *Bobby Dezfouli, M.D.
 Tucson, AZ
 John T. Ruth, M.D.
 Tucson, AZ
 Lisa M. Truchan, M.D.
 Tucson, AZ
128. Late Effects of Clubfoot Deformity in Adolescent and Young Adult Patients Treated with Surgical Intervention
 *David A. Joos, M.D.
 Provo, UT
 Perry L. Schoenecker, M.D.
 St. Louis, MO
 Sandra E. Klein, M.D.
 St. Louis, MO
 Jeremy J. McCormick, M.D.
 St. Louis, MO
 Jeffrey E. Johnson, M.D.
 St. Louis, MO
129. Evaluation of In-Toeing at a Tertiary Pediatric Orthopedic Specialty Center
 Jeffrey L. Gum, M.D.
 Louisville, KY
 Drew Harston, M.D.
 Louisville, KY
 *Nathan Polley, M.D.
 Louisville, KY
 Gilbert Chan, M.D.
 Louisville, KY
 Joshua W. Meier, M.D.
 Louisville, KY
130. Single Event Multilevel Surgery in the Spastic Cerebral Palsy Upper Extremity. A Review of the Expanded Green Transfer
 Melia Hernandez, B.S.
 Orlando, FL
 *John Ruder, B.S.
 Orlando, FL
 Jonathan H. Phillips, M.D.
 Orlando, FL

*Denotes Speaker

131. Functional Outcomes After Operative Management of Pediatric Tibial Plateau Fractures
 Brian W. Hill, M.D.
 St. Paul, MN
 *Erich M. Gauger, M.D.
 Minneapolis, MN
 Mengnai Li, M.D., Ph.D.
 St. Paul, MN
132. Association of Pediatric Pelvic Ring Injuries with Injury Severity Score and Transfusion Needs
 *Laura W. Lewallen, M.D.
 Rochester, MN
 Amy L. McIntosh, M.D.
 Rochester, MN
 S. Andrew Sems, M.D.
 Rochester, MN
133. A Novel Technique for Pediatric Femoral Locked Submuscular Plate Removal: The "Push-Pull" Technique
 *Martin F. Hoffmann, M.D.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
- BREAKOUT SESSION #10**
SPINE
11:00 a.m. - 1:00 p.m., Friday, April 19, 2013
134. Patient Demographics, Insurance Status, Race, and Ethnicity as Predictors of Morbidity and Mortality Following Spine Trauma
 *Aaron A. See, D.O.
 El Paso, TX
 Philip J. Belmont, M.D.
 El Paso, TX
 Christopher M. Bono, M.D.
 Boston, MA
 Andrew J. Schoenfeld, M.D.
 El Paso, TX
135. Outpatient Surgery Reduces Short-Term Complications in Lumbar Discectomy
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Christopher T. Martin, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 *Sergio A. Mendoza-Lattes, M.D.
 Iowa City, IA
136. Analysis of Cervical Angiograms in Cervical Spine Trauma Patients. Does it Make a Difference?
 *Tina K. Dreger, M.D.
 St. Louis, MO
 Howard M. Place, M.D.
 St. Louis, MO
 Theresa Mattingly
 St. Louis, MO
 Christine Piper
 St. Louis, MO
137. Osteoporosis Care After Fragility Fracture
 *Ryan K. Takenaga, M.D.
 Iowa City, IA
 Richard C. Johnston, M.D.
 Iowa City, IA
138. Evaluation of the Utility of the Wells Score for Predicting Pulmonary Embolus in Patients Admitted to the Spine Surgery Service
 Joanne Wang, B.S.
 Providence, RI
 *Melissa A. Christino, M.D.
 Providence, RI
 Scott A. Ritterman, M.D.
 Providence, RI
 Nikhil A. Thakur, M.D.
 Providence, RI
 Steve Rienert, M.S.
 Providence, RI
 Mark A. Palumbo, M.D.
 Providence, RI
 Christopher T. Born, M.D.
 Providence, RI
 Peter Evangelista, M.D.
 Providence, RI
 Alan H. Daniels, M.D.
 Providence, RI
139. Comparison of Cranial Facet Joint Violation Rates Between Open and Percutaneous Pedicle Screw Placement Using 3-D CT Computer Navigation
 *Sharon C. Yson, M.D.
 Minneapolis, MN
 Peter C. Sanders, M.D.
 Minneapolis, MN
 David W. Polly, Jr., M.D.
 Minneapolis, MN
 Edward Rainier G. Santos, M.D.
 Minneapolis, MN
 Jonathan N. Sembrano, M.D.
 Minneapolis, MN

140. No Neurological Deficits Using a Bilateral Transforaminal Lumbar Interbody Fusion Approach and a Novel Low Profile, Expandable Interbody Device
 R. Seethala, M.D.
 New York, NY
 *Paul D. Kiely, M.D.
 New York, NY
 Fadi Taher, M.D.
 New York, NY
 Celeste Abjornson, Ph.D.
 New York, NY
 Patrick F. O'Leary, M.D.
 New York, NY
141. Salvaging Failed Lateral Mass Screw Fixation in the Subaxial Cervical Spine (C3-C7) with Bone Cement
 Craig A. Kuhns, M.D.
 Columbia, MO
 Ferris Pfeiffer, Ph.D.
 Columbia, MO
 *Michael A. Gallizzi, M.D.
 Columbia, MO
 Anne Tallmage, B.S.
 Columbia, MO
 Tyler Jenkins, B.S.
 Columbia, MO
142. Experimental Lumbar Spine Fusion with Beta Tricalcium Phosphate Ceramic Composite Graft and Bone Marrow Aspirate
 K. Zhang, M.D.
 New York, NY
 Paul D. Kiely, M.D.
 New York, NY
 Fadi Taher, M.D.
 New York, NY
 Antonio Breceovich
 New York, NY
 Frank P. Cammisa, Jr., M.D.
 New York, NY
 *Celeste Abjornson, Ph.D.
 New York, NY
 Matthew E. Cunningham, M.D., Ph.D.
 New York, NY
143. Lumbar Spinal Stenosis: Evaluation of Information on the Internet
 Ross J. Feller, M.D.
 Providence, RI
 Ariel Cohen, D.O.
 Providence, RI
 Mark A. Palumbo, M.D.
 Providence, RI
 *Alan H. Daniels, M.D.
 Providence, RI
144. New Formulation of Demineralized Bone Matrix Putty Performs Substantially Equivalent to Iliac Bone Graft in Rabbit Posterolateral Lumbar Spine Arthrodesis
 Paul D. Kiely, M.D.
 New York, NY
 *Antonio Breceovich
 New York, NY
 Fadi Taher, M.D.
 New York, NY
 Frank P. Cammisa, M.D.
 New York, NY
 Celeste Abjornson, Ph.D.
 New York, NY
145. Does Vancomycin Powder Reduce Deep Infections in Posterior Spinal Surgery: A Comparative Study
 *Brian W. Hill, M.D.
 St. Paul, MN
 Bowei Song, M.D.
 St. Paul, MN
 Richard A. Davis, M.D.
 St. Paul, MN
 Matthew M. Kang, M.D.
 St. Paul, MN
146. Civilian Gunshot Injuries to the Spine: An Update on Surgical Indications, Long-Term Outcomes, and Complications
 *David B. Bumpass, M.D.
 St. Louis, MO
 Jacob M. Buchowski, M.D.
 St. Louis, MO
 Andrew Park, M.D.
 St. Louis, MO
 Benjamin L. Gray, M.D.
 St. Louis, MO
 Lukas P. Zebala, M.D.
 St. Louis, MO
 Neill M. Wright, M.D.
 St. Louis, MO
- Lunch on your own
 1:00 p.m. - 3:00 p.m.
 Multimedia Education
- 1:30 p.m.
 Mid-America Golf Tournament
 (see page 54)
- 1:30 p.m.
 Optional Tour: Riverboat Tour
 (see page 54)

*Denotes Speaker

6:30 p.m. - 7:30 p.m.

Steel Lecture – Understanding the Middle East: Making Sense of Religion, Radicals, and Revolutionaries in this Troubled Region

Magnus T. Bernhardsson, Ph.D.
Professor, Middle Eastern History and Chair, International Studies,
Williams College
Williamstown, MA

Dr. Magnus Bernhardsson specializes in the modern Middle East, specifically the political and cultural history of Hashimite Iraq (1921-1958). After earning his B.A. degree in theology and political science at the University of Iceland, he came to the United States and completed his Master's Degree in Religion from Yale Divinity School in 1992. After a year in Syria studying Arabic, he returned to Yale and finished his Ph.D. in Middle Eastern History in 1999. He is the author of several books and edited volumes including *Reclaiming a Plundered Past: Archaeology and Nation in Modern Iraq 1921-1941* (Texas, 2005) and is currently working on *History of Iran and Iraq in the 20th Century*.

7:30 p.m. - 11:30 p.m.

Friday Night Dinner/Dance

Price: Included in Registration Fee for doctors, allied health, and registered spouses/guests

Exhibitor cost: \$150/person

Attire: Casual

A special children's buffet will be available for \$30/child (ages 5-12). Children's tickets may be purchased via the MAOA web site when registering for the meeting.

SATURDAY, APRIL 20, 2013

6:00 a.m. - 1:00 p.m.

Registration

6:30 a.m. - 8:00 a.m.

INSTRUCTIONAL COURSE III – Patients with Fragility Fractures Need More Than Just Fracture Care: Own the Bone, a Post-Fracture, Systems-Based Initiative

Continental breakfast will be available

James A. Goulet, M.D., Moderator
Ann Arbor, MI

Clifford B. Jones, M.D.
Grand Rapids, MI

Marc F. Swionkowski, M.D.
Minneapolis, MN

As a national online registry, the American Orthopaedic Association's Own the Bone program provides hospitals and medical centers with a structured system to optimize and track patient care, as well as access to internal and external benchmarking capabilities to measure performance for outside evaluators. This course will focus on practice management aspects of establishing an osteoporotic fracture program.

6:30 a.m. - 8:00 a.m.

INSTRUCTIONAL COURSE IV – Avoiding Trouble with the Fractured Femur: From the Hip to the Knee

Continental breakfast will be available

Lisa K. Cannada, M.D., Moderator
St. Louis, MO

Brett D. Crist, M.D.
Columbia, MO

Christopher McAndrew, M.D.
St. Louis, MO

S. Andrew Sems, M.D.
Rochester, MN

Objectives:

1. Recognize techniques which may lead to less than optimal fracture stabilization in what is perceived as “common” and/or “simple” fractures of the femur
2. Learn how to correct common problems with different types of femur fracture fixation
3. Prevention of return to OR for technical errors

Often times, a “simple femur fracture” turns out to be much more than that. This symposium covers the complications which can go wrong with femur fracture stabilization from the hip to the knee and how to avoid these problems to optimize results. The participant will learn strategies to correct the errors in the OR when recognized and minimize complications using the tips in this symposium

7:30 a.m. - 1:00 p.m.

Exhibits/Posters Open (continental breakfast available from 7:30 a.m. - 9:00 a.m. in exhibit area)

8:00 a.m. - 8:05 a.m.

Second Business Meeting (MAOA Members only)

THIRD PLENARY SESSION

8:05 a.m. - 10:33 a.m.

8:05 a.m. - 8:07 a.m.

Assemble/Announcements

8:07 a.m. - 8:12 a.m.

OREF Presentation

8:12 a.m. - 8:15 a.m.

Presentation of Mid-America Orthopaedic Association Poster Award Winners

*Denotes Speaker

8:15 a.m. - 8:45 a.m.

Rapp Lecture **Orthopedic Product Technology: 1950-2000 and “The Future”** **Dane A. Miller, Ph.D.** **Winona Lake, IN**

8:46 a.m. - 9:30 a.m.

147. Enhanced Bone to Bone Healing via Pectoralis Major Transfer with Its Bony Insertion to Stabilize Symptomatic Scapular Winging
*Eric R. Wagner, M.D.
Rochester, MN
Bassem T. Elhassan, M.D.
Rochester, MN

148. One-Stage Bilateral Total Knee Arthroplasty: Analysis of Safety Outcomes
Kristopher G. Stockton, M.D.
Dallas, TX
Paul Tavakolian, M.S.
Dallas, TX
*Kenneth A. Estrera, M.D.
Dallas, TX
Joan S. Reisch, Ph.D.
Dallas, TX
Michael H. Huo, M.D.
Dallas, TX

149. Wear Rates of Highly Cross-Linked Polyethylene in a Reverse Total Shoulder Arthroplasty Wear Simulation
*Sebastian C. Peers, M.D.
Royal Oak, MI
James E. Moravek, M.D.
Royal Oak, MI
Matthew D. Budge, M.D.
Royal Oak, MI
Michael D. Kurdziel, M.S.
Royal Oak, MI
Kevin C. Baker, Ph.D.
Royal Oak, MI
J. Michael Wiater, M.D.
Royal Oak, MI

150. Trends in Orthopedics: An Analysis of Medicare Claims, 2000-2010
*Daniel A. Belatti, B.S.
Iowa City, IA
Phinit Phisitkul, M.D.
Iowa City, IA

151. Risk Factors for Recurrent Instability Following Acute Patellofemoral Dislocation
Laura W. Lewallen, M.D.
Rochester, MN
Amy L. McIntosh, M.D.
Rochester, MN
*Diane L. Dahm, M.D.
Rochester, MN
- 9:30 a.m. - 10:00 a.m.
CLASSICS IN ORTHOPAEDICS
Lessons from Retrieval Analysis of Orthopedic Implants
Timothy M. Wright, Ph.D.
New York, NY
- 10:00 a.m. - 10:33 a.m.
Innovations: Food for Thought (3-minute rapid fire presentations)
152. Mobile Compression Devices Are Efficacious for VTE Prophylaxis Following Total Joint Arthroplasty
Ryan M. Nunley, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO
James A. Keeney, M.D.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
Staci R. Johnson, M.S.
St. Louis, MO
Douglas J. McDonald, M.D.
St. Louis, MO
153. Locked Plating of Comminuted Distal Femur Fractures: Does Unlocked Screw Placement Affect Stability and Failure?
*Shari Cui, M.D.
St. Louis, MO
J. Gary Bledsoe, Ph.D.
St. Louis, MO
Heidi Israel, Ph.D.
St. Louis, MO
J. Tracy Watson, M.D.
St. Louis, MO
Lisa K. Cannada, M.D.
St. Louis, MO
154. A Prospective RCT Comparing the SmartToe Device to K-Wire to Proximal Interphalangeal Joint Fusion: Early Results
John G. Anderson, M.D.
Grand Rapids, MI
*Donald R. Bohay, M.D.
Grand Rapids, MI
John D. Maskill, M.D.
Grand Rapids, MI
Rohan A. Habbu, M.D.
Grand Rapids, MI
Kuldeep Gadkari, M.S., M.B.B.S.
Grand Rapids, MI
Michelle Padley, B.S.
Grand Rapids, MI
Sarah Grant, P.A.
Grand Rapids, MI
155. Data Driven Implant Design for the OTA/AO Type 43C3 Pilon Fracture
*Brian W. Hill, M.D.
St. Paul, MN
Paul M. Lafferty, M.D.
St. Paul, MN
Thuan V. Ly, M.D.
St. Paul, MN
Peter A. Cole, M.D.
St. Paul, MN
156. Custom Knee Replacement Preserves Bone and Decreases Blood Loss
*William B. Kurtz, M.D.
Nashville, TN
157. Higher Rates of Union in Older Patients with Type 2 and Type 3 Odontoid Fractures Treated with Teriparatide
*Michael T. Merrick, M.D.
Grand Rapids, MI
Casey L. Smith, M.D.
Grand Rapids, MI
Debra L. Sietsema, Ph.D., R.N.
Grand Rapids, MI
Tan Chen, M.S.
Grand Rapids, MI
Tammy Beckett, R.N.
Grand Rapids, MI
Clifford B. Jones, M.D.
Grand Rapids, MI
James R. Stubbart, M.D.
Grand Rapids, MI
Scott S. Russo, M.D.
Grand Rapids, MI

158. Effect of Optimizing Bone-Implant Contact on Hip Offset and Rotation with Three Contemporary Uncemented Metaphyseal Engaging Implants
 *Ronak M. Patel, M.D.
 Chicago, IL
 Alejandro Marquez-Lara, M.D.
 Chicago, IL
 S. David Stulberg, M.D.
 Chicago, IL
- 10:30 a.m. - 11:00 a.m.
 Poster viewing – presenters will be available.
 CME credit will be offered.
 (Poster Area)
- 10:30 a.m. - 11:00 a.m.
 Coffee Break in Exhibit Area
- 11:00 a.m. - 1:00 p.m.
 Breakout Sessions #11, #12, #13, #14, and #15 to run concurrently
- BREAKOUT SESSION #11**
KNEE ARTHROPLASTY
11:00 a.m. - 1:00 p.m., Saturday, April 20, 2013
159. Operative Management of the Severe Genu Valgum Deformity in the Ellis-van Creveld Syndrome
 *Jason C. Tank, M.D.
 Akron, OH
 David K. Jonah, M.A.
 Baltimore, MD
 William C. Schrader, M.D.
 Akron, OH
 Steven E. Kopits, M.D. (deceased)
 Towson, MD
 Melanie A. Morscher, B.S.
 Akron, OH
 Dennis S. Weiner, M.D.
 Akron, OH
160. Surface Area Differences Between Opposing Tibiofemoral Joint Surfaces are a Risk Factor for Knee Osteoarthritis: A Prospective Cohort Study with 5-Year Follow-Up
 *Joshua S. Everhart, B.S.
 Columbus, OH
 Robert A. Siston, Ph.D.
 Columbus, OH
 Derrick M. Knapik, B.S.
 Columbus, OH
 David C. Flanigan, M.D.
 Columbus, OH
161. Primary Total Knee Arthroplasty Blood Transfusion Trends and Characteristics Using the Nationwide Inpatient Sample
 Travis J. Small, D.O.
 Cleveland, OH
 Alison K. Klika, M.S.
 Cleveland, OH
 *Caleb R. Szubski, B.S.
 Cleveland, OH
 Jesse Schold, Ph.D.
 Cleveland, OH
 Wael K. Barsoum, M.D.
 Cleveland, OH
162. Clinical, Functional, and Radiographic Outcomes Following PSI, CAS, and Manual TKA: A Short-Term Follow-Up Study
 *Mark A. Yaffe, M.D.
 Chicago, IL
 Anay R. Patel, M.D.
 Chicago, IL
 Michael Luo, B.S.
 Chicago, IL
 Philip Chan, B.S.
 Chicago, IL
 Nitin Goyal, B.S.
 Chicago, IL
 S. David Stulberg, M.D.
 Chicago, IL
163. Custom Instrumentation is Superior to Standard Total Knee Arthroplasty Instrumentation When Evaluated with 3D Computed Tomography
 *Vincent Y. Ng, M.D.
 Columbus, OH
 Lindsay Arnott, M.D.
 Columbus, OH
 Jia Li, M.D.
 Warsaw, IN
 Ronald Hopkins, M.D.
 Columbus, OH
 Jaime Lewis, M.D.
 Columbus, OH
 Sean Sutphen, M.D.
 Erie, PA
 Lisa Nicholson, M.D.
 Chicago, IL
 Douglas Reader, M.D.
 Columbus, OH
 Michael A. McShane, M.D.
 Columbus, OH

164. Improved Postoperative Coronal Alignments in Total Knee Arthroplasty: A Case for Patient Specific Guides
 Anay R. Patel, M.D.
 Chicago, IL
 Mark A. Yaffe, M.D.
 Chicago, IL
 Daniel Curtis, M.D.
 Chicago, IL
 Raju M. Ghate, M.D.
 Chicago, IL
 *S. David Stulberg, M.D.
 Chicago, IL
165. Improved Outcomes with Modern Modular Rotating Hinged Total Knee Designs Used for Primary TKA
 *Diren Arsoy, M.D.
 Rochester, MN
 David G. Lewallen, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
166. Early Experience with the Biomet Oxford Unicompartmental Knee Implant – The First 5 Years
 *William Burgette, D.O.
 Cleveland, OH
 Jayson D. Zadzilka, M.S.
 Cleveland, OH
 John Fortunato
 Cleveland, OH
 Bernard N. Stulberg, M.D.
 Cleveland, OH
167. High Level of Residual Symptoms in Young Patients with TKA
 Ryan M. Nunley, M.D.
 St. Louis, MO
 Keith R. Berend, M.D.
 New Albany, OH
 Adolph V. Lombardi, Jr., M.D.
 New Albany, OH
 Erin L. Ruh, M.S.
 St. Louis, MO
 John C. Clohisy, M.D.
 St. Louis, MO
 William G. Hamilton, M.D.
 Alexandria, VA
 Craig J. Della Valle, M.D.
 Chicago, IL
 Javad Parvizi, M.D.
 Philadelphia, PA
 Robert L. Barrack, M.D.
 St. Louis, MO
168. Bacteria Exacerbate Polyethylene Particle-Induced Bone Loss at the Rate Tibia-Implant Interface
 *Kerellos A. Nasr, M.D.
 Detroit, MI
 Basma M. Khoury, M.S.
 Southfield, MI
 Nancy M. Jackson, Ph.D.
 Southfield, MI
 Jeffrey C. Flynn, Ph.D.
 Southfield, MI
 David C. Markel, M.D.
 Southfield, MI
 Weiping Ren, Ph.D.
 Detroit, MI
169. Presence of Trochlear Dysplasia Associated with Less Progression of Tibiofemoral Osteoarthritis Following Patellofemoral Arthroplasty
 *Michael M. Kalisvaart, M.D.
 Rochester, MN
 Seth W. Slettedahl, M.S.
 Rochester, MN
 Diane L. Dahm, M.D.
 Rochester, MN
170. Continuous Passive Motion After Total Knee Arthroplasty: A Randomized Controlled Trial
 *Clifford K. Boese, M.D.
 Council Bluffs, IA
 Sheila Lawton-Peters, M.S.
 Council Bluffs, IA
 Marcia Weis, M.S.
 Council Bluffs, IA
 Tamara Phillips, M.S.
 Council Bluffs, IA
 Rebecca Baker, B.S.
 Council Bluffs, IA
 Theresa J. Gallo, P.A.
 Council Bluffs, IA
 Carla J. Plantikow, M.S.
 Council Bluffs, IA
171. Significant Decrease in Length of Stay and Significant Increase in Cost for Total Knee Arthroplasty in the United States
 Thomas Myers, M.D.
 Cleveland, OH
 Jesse Schold, Ph.D.
 Cleveland, OH
 Edward Soltesz, M.D.
 Cleveland, OH
 *Wael K. Barsoum, M.D.
 Cleveland, OH

BREAKOUT SESSION #12

TRAUMA

11:00 a.m. - 1:00 p.m., Saturday, April 20, 2013

172. Why Do We Have “Lost to Follow-Up”?
 Martin F. Hoffmann, M.D.
 Grand Rapids, MI
 *Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
173. The Nature and Incidence of Musculoskeletal Combat Wounds in Iraq and Afghanistan
 *Brendan J. McCriskin, M.D.
 El Paso, TX
 Philip J. Belmont, Jr., M.D.
 El Paso, TX
 Andrew J. Schoenfeld, M.D.
 El Paso, TX
 Mark S. Hsiao, M.D.
 El Paso, TX
 Kenneth J. Nelson, M.D.
 El Paso, TX
 Robert Burks, Ph.D.
 Monterey, CA
174. Biomechanical Evaluation of Locking Plates vs. Iliosacral Screws in Vertically Unstable Sacral Fractures
 *Nickolas B. Reimer, M.D.
 Minneapolis, MN
 David J. Nuckley, Ph.D.
 Minneapolis, MN
 Ericka L. Sperl-Imhoff, B.S.
 Minneapolis, MN
 Robert A. Morgan, M.D.
 Minneapolis, MN
175. Pelvic CT Scans Obtained Prior to Hip Reduction Results in Increased Time to Reduction, Cost, and Radiation Exposure
 Marissa D. Jamieson
 Dallas, TX
 Brigham K. Au, M.D.
 Dallas, TX
 *Rahul Banerjee, M.D., F.A.C.S.
 Dallas, TX
176. Analysis of Plain Radiographs vs. CT Generated Images in the Diagnosis of Pelvic Ring Injury
 *Adham A. Abdelfattah, M.D.
 St. Louis, MO
 Berton R. Moed, M.D.
 St. Louis, MO
 John A. Boudreau, M.D.
 St. Louis, MO
177. CT Reconstructed Radiographs vs. Plain Radiographs for Acetabular Fracture Classification in an Obese Patient Population
 *Philip M. Sinatra, M.D.
 St. Louis, MO
 Berton R. Moed, M.D.
 St. Louis, MO
178. Radiographic Measurement of Rotational Deformity in Pelvic Fractures: A Novel Method with Validity and Reliability Testing
 *Lukas M. Nystrom, M.D.
 Iowa City, IA
 Todd O. McKinley, M.D.
 Iowa City, IA
 J. Lawrence Marsh, M.D.
 Iowa City, IA
179. Risk Stratification for Short-Term Morbidity and Mortality Following Hip Fracture Surgery
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Christopher T. Martin, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 *J. Lawrence Marsh, M.D.
 Iowa City, IA
180. Risk Factors for Mortality, Cardiac, Thromboembolic, and Infectious Complications Following Pelvic Trauma
 *William Arroyo, M.D.
 El Paso, TX
 Philip J. Belmont, Jr., M.D.
 El Paso, TX
 Kenneth J. Nelson, M.D.
 El Paso, TX
 Andrew J. Schoenfeld, M.D.
 El Paso, TX

*Denotes Speaker

181. Clinical Outcomes of Surgical Treatment of Multi-Ligamentous Knee Injury with Associated Peroneal Nerve Palsy
 Steven A. Giuseffi, M.D.
 Rochester, MN
 *Joshua L. Hudgens, M.D.
 Ann Arbor, MI
 Michael J. Stuart, M.D.
 Rochester, MN
 Bruce A. Levy, M.D.
 Rochester, MN
182. Fix It or Discard It? A Retrospective Review of Functional Outcomes After Surgically Treated Patella Fractures Comparing Open Reduction Internal Fixation with Partial Patellectomy
 *Nicolas S. Bonnaig, M.D.
 Cincinnati, OH
 Michael T. Archdeacon, M.D.
 Cincinnati, OH
 Chris Casstevens, M.D.
 Cincinnati, OH
183. Patellar Tension Band Plate (TBP) in Comminuted Complex Patellar Fractures: Case Series
 *Paul D. Butler, M.D.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
184. Outcomes After Operative Management of Symptomatic Rib Nonunion
 *Erich M. Gauger, M.D.
 St. Paul, MN
 Brian W. Hill, M.D.
 St. Paul, MN
 Paul M. Lafferty, M.D.
 St. Paul, MN
 Peter A. Cole, M.D.
 St. Paul, MN
- BREAKOUT SESSION #13**
SHOULDER
11:00 a.m. - 1:00 p.m., Saturday, April 20, 2013
185. Autograft Glenoid Reconstruction Combined with Tendon Transfers for Older Patients with Obstetric Brachial Plexus Injuries
 *Eric R. Wagner, M.D.
 Rochester, MN
 Bassem T. Elhassan, M.D.
 Rochester, MN
186. Structural Integrity After Rotator Cuff Repair Does Not Correlate with Patient Function and Pain: A Meta-Analysis of Level I and II Studies
 *Robert D. Russell, M.D.
 Dallas, TX
 Justin R. Knight, M.D.
 Dallas, TX
 Michael S. Khazzam, M.D.
 Dallas, TX
187. Triple Disruption of the Superior Shoulder Suspensory Complex
 *Brett Mulawka, M.D.
 St. Paul, MN
 Aaron R. Jacobson
 St. Paul, MN
 Peter A. Cole, M.D.
 St. Paul, MN
188. A Comparative Analysis of Stability of Initial Management of Humerus Fractures
 Elizabeth M. Dulaney-Cripe, M.D.
 Dayton, OH
 *Christopher Lyons, M.D.
 Dayton, OH
 Michael J. Prayson, M.D.
 Dayton, OH
 Zac DiPaolo, B.S.
 Dayton, OH
189. Associated Capitellum and Elbow Ligament Injuries in Isolated Type 1 Radial Head Fractures Based on Magnetic Resonance Imaging
 *James R. Meadows, M.D.
 San Antonio, TX
 Anil K. Dutta, M.D.
 San Antonio, TX
 Glenn M. Garcia, M.D.
 San Antonio, TX
190. Comparison of Tension Band vs. Plate Osteosynthesis in Transverse Olecranon Fractures: A Matched Cohort Study
 *Michael H. Amini, M.D.
 Memphis, TN
 Benjamin R. Wilson
 Memphis, TN
 Richard A. Smith, Ph.D.
 Memphis, TN
 Frederick M. Azar, M.D.
 Memphis, TN
 Thomas W. Throckmorton, M.D.
 Memphis, TN

*Denotes Speaker

191. Effect of Rotator Cuff Tears on Genomic, Histologic, and Biomechanical Properties of the Long Head of the Biceps Tendon
James E. Moravek, Jr., M.D.
Royal Oak, MI
Michael D. Kurdziel, M.S.
Royal Oak, MI
*Brett P. Wiater, M.D.
Royal Oak, MI
Tristan Maerz, M.S.
Royal Oak, MI
Kevin C. Baker, Ph.D.
Royal Oak, MI
J. Michael Wiater, M.D.
Royal Oak, MI
192. Evaluation of Suture Slippage with Knotless Suture Anchors in Rotator Cuff Repair
*Bryan G. Vopat, M.D.
Providence, RI
David Paller, M.S.
Providence, RI
Anthony Avery, M.D.
Providence, RI
Patrick Kane, M.D.
Providence, RI
Paul Fadale, M.D.
Providence, RI
193. Traumatic Rotator Cuff Tears in Patients Under the Age of 25
*Matthew F. DiIisio, M.D.
Akron, OH
Curtis R. Noel, M.D.
Akron, OH
Jeffrey S. Noble, M.D.
Akron, OH
Robert H. Bell, M.D.
Akron, OH
194. Biomechanical Evaluation of Rotator Cuff Repair with Biceps Tendon Augmentation
*David G. Marsh, M.D.
Orlando, FL
Eugene Stone, B.S.
Houston, TX
Jerry W. Alexander, B.S.
Houston, TX
Krishna C. Vemulpalli, B.S.
Houston, TX
Philip C. Noble, Ph.D.
Houston, TX
Pradeep Kodali, M.D.
Houston, TX
195. Arthroscopic Decompression at the Suprascapular Notch: A Radiographic and Anatomic Roadmap
*Lindsey N. Dietrich, M.D.
Birmingham, AL
A. Jay Savage, M.D.
Birmingham, AL
Brent A. Ponce, M.D.
Birmingham, AL
196. Arthroscopic Capsulolabral Reconstruction for Posterior Instability in the Adolescent Shoulder
*Clint J. Wooten, M.D.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Joshua L. Hudgens, M.D.
Rochester, MN
Jedediah H. May, M.D.
Dayton, OH
Diane L. Dahm, M.D.
Rochester, MN
197. Biomechanical Comparison of an All Soft-Tissue Technique vs. Interference Screw Fixation for Subpectoral Tenodesis of the Long Head of the Biceps
*Mohammed M. Ahmed, M.D.
St. Louis, MO
Scott G. Kaar, M.D.
St. Louis, MO
J. Gary Bledsoe, Ph.D.
St. Louis, MO
Adnan Cutuk, M.D.
St. Louis, MO

**BREAKOUT SESSION #14
TUMOR/BASIC SCIENCE**

11:00 a.m. - 1:00 p.m., Saturday, April 20, 2013

198. Adamantinoma of Long Bones
*Courtney E. Sherman, M.D.
Rochester, MN
Peter S. Rose, M.D.
Rochester, MN
Carrie Y. Inwards, M.D.
Rochester, MN
Doris E. Wenger, M.D.
Rochester, MN
Franklin H. Sim, M.D.
Rochester, MN

199. Osteoid Osteomas of the Foot and Ankle: A 20-Year Experience
 *Matthew T. Houdek, M.D.
 Rochester, MN
 Courtney E. Sherman, M.D.
 Rochester, MN
 Doris E. Wenger, M.D.
 Rochester, MN
 Norman S. Turner, M.D.
 Rochester, MN
200. Rigidity of Fixation Affects Fracture Healing in the Murine Model
 Masato Yuasa, M.D.
 Nashville, TN
 *Cesar S. Molina, M.D.
 Nashville, TN
 Jonathan G. Schoenecker, M.D.
 Nashville, TN
201. Validation of the Dual-Purpose Musculoskeletal Review of Systems (msROS) Questionnaire
 *Thomas H. Wuerz, M.D.
 Cleveland, OH
 Boris Bershadsky, Ph.D.
 Cleveland, OH
 Morgan H. Jones, M.D.
 Cleveland, OH
 Brian K. Brighton, M.D.
 Charlotte, NC
 Russell N. Stitzlein, M.D.
 Cleveland, OH
 Richard D. Parker, M.D.
 Cleveland, OH
 Joseph P. Iannotti, M.D.
 Cleveland, OH
202. Tranexamic Acid in Orthopedic Oncology: Safety and Efficacy
 Herrick J. Siegel, M.D.
 Birmingham, AL
 *Jonathan K. Jennings, M.D.
 Birmingham, AL
203. Platelet-Rich Plasma vs. Kenalog: An In Vitro Comparison of Gene Expression Changes in Osteoarthritic Human Chondrocytes
 *Kyle W. Lacy, M.D.
 Detroit, MI
 Nancy Jackson, Ph.D.
 Detroit, MI
 Jeff Flynn, Ph.D.
 Detroit, MI
 David C. Markel, M.D.
 Southfield, MI
204. Acute Effects of Local Anesthetics on Human Chondrocytes In Vitro in an Alginate Bead Model
 *Jon B. Carlson, M.D.
 Detroit, MI
 Nancy Jackson, Ph.D.
 Detroit, MI
 Jeff Flynn, Ph.D.
 Detroit, MI
 David C. Markel, M.D.
 Southfield, MI
205. Inhibition of Asporin Signaling is Critical in Preventing Cartilage Damage by Exercise
 Derrick M. Knapik, B.S.
 Columbus, OH
 *Priyangi M. Perera, M.S.
 Columbus, OH
 Jin Nam, Ph.D.
 Riverside, CA
 David C. Flanigan, M.D.
 Columbus, OH
 Sudha Agarwal, Ph.D.
 Columbus, OH
206. Developing, Optimizing, and Validating Genipin Sterilization of Bone Allografts
 *Michael S. Reich, M.D.
 Cleveland, OH
 Vipul Kishore, Ph.D.
 Cleveland, OH
 Rodrigo Iglesias, M.S.
 Cleveland, OH
 Ozan Akkus, Ph.D.
 Cleveland, OH
207. Pre-Referral MRI Use in Musculoskeletal Oncology Patients is Not Excessive
 Christopher T. Martin, M.D.
 Iowa City, IA
 Jose A. Morcuende, M.D., Ph.D.
 Iowa City, IA
 Joseph A. Buckwalter, M.D.
 Iowa City, IA
 *Benjamin J. Miller, M.D.
 Iowa City, IA
208. Symptomatic Deep Venous Thrombosis Following Soft Tissue Mass Resections
 *Herrick J. Siegel, M.D.
 Birmingham, AL
 Martha George, M.D.
 Birmingham, AL
 Jonathan K. Jennings, M.D.
 Birmingham, AL

209. Successful Prosthetic Rehabilitation Following Hip Disarticulation or Hemipelvectomy: The Mayo Clinic Experience
 Michael E. Kralovec, M.D.
 Rochester, MN
 Karen L. Andrews, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 Courtney E. Sherman, M.D.
 Rochester, MN
 Thomas C. Shives, M.D.
 Rochester, MN
 *Peter S. Rose, M.D.
 Rochester, MN
 Franklin H. Sim, M.D.
 Rochester, MN
210. Dynamic In Vivo Elbow Kinematics: Techniques and Preliminary Findings
 Colin P. McDonald, Ph.D.
 Detroit, MI
 *William K. Vasileff, M.D.
 Detroit, MI
 Vasilios Moutzouros, M.D.
 Detroit, MI
 Michael J. Bey, Ph.D.
 Detroit, MI
- BREAKOUT SESSION #15**
FOOT AND ANKLE
11:00 a.m. - 1:00 p.m., Saturday, April 20, 2013
211. Progressive Foot Deformity Evident in Neuropathic Charcot Arthroplasty at One and Two Years
 Mary Hastings, M.D.
 St. Louis, MO
 *Jeffrey E. Johnson, M.D.
 St. Louis, MO
 Michael J. Strube, Ph.D.
 St. Louis, MO
 Charles F. Hildebolt, Ph.D.
 St. Louis, MO
 Kay L. Bohnert, M.S.
 St. Louis, MO
 Fred W. Prior, Ph.D.
 St. Louis, MO
 David R. Sinacore, Ph.D.
 St. Louis, MO
212. Complications After Popliteal Block for Foot and Ankle Surgery
 Donald R. Bohay, M.D.
 Grand Rapids, MI
 John G. Anderson, M.D.
 Grand Rapids, MI
 John D. Maskill, M.D.
 Grand Rapids, MI
 Kuldeep Gadkari, M.S., M.B.B.S.
 Grand Rapids, MI
 Michelle A. Padley, B.S.
 Grand Rapids, MI
 Lindsey A. Behrend, B.S.
 Grand Rapids, MI
 *William Braaksma, M.D.
 Grand Rapids, MI
213. What Affects Nonunion After Intramedullary Nailing for Distal Tibial Fractures?
 *Christiane G. Kruppa, M.D.
 Bochum, Germany
 Martin F. Hoffmann, M.D.
 Grand Rapids, MI
 Michelle B. Mulder, B.S.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
214. Comparing Different Surgical Techniques for Addressing the Posterior Malleolus in Supination External Rotation (SER) IV Ankle Fractures and the Need for Syndesmotic Screw Fixation
 Mengnai Li, M.D., Ph.D.
 St. Paul, MN
 *Rachel C. Collier, D.P.M.
 St. Paul, MN
 Brian W. Hill, M.D.
 St. Paul, MN
 Nathaniel J. Slinkard, M.D.
 St. Paul, MN
 Thuan V. Ly, M.D.
 St. Paul, MN
215. Diagnosing Chronic Diastasis of the Syndesmosis – A Novel Measurement Using Computed Tomography
 *Gautam Malhotra, M.D.
 Chicago, IL
 James I. Cameron, M.D.
 Chicago, IL
 Brian C. Toolan, M.D.
 Chicago, IL

216. Are Hook Plates Advantageous Compared to Antiglide Plates for Vertical Shear Malleolar Fractures?
Daniel A. Jones, M.D.
St. Louis, MO
*Lisa K. Cannada, M.D.
St. Louis, MO
J. Gary Bledsoe, Ph.D.
St. Louis, MO
217. A Retrospective Comparison of Total Ankle Arthroplasty vs. Arthroscopically Assisted Ankle Fusion for End Stage Ankle Arthritis
*Joan R. Williams, M.D.
Chicago, IL
Steven A. Kodros, M.D.
Chicago, IL
Armen S. Kelikian, M.D.
Chicago, IL
218. Trends in the Use of Total Ankle Replacement and Ankle Arthrodesis in the United States Medicare Population
Andrew J. Pugely, M.D.
Iowa City, IA
Xin Lu, M.S.
Iowa City, IA
*Annunziato Amendola, M.D.
Iowa City, IA
John J. Callaghan, M.D.
Iowa City, IA
Peter Cram, M.D.
Iowa City, IA
219. Clinical Outcome of Tibiotalocalcaneal Arthrodesis with Lateral Blade Plate Fixation
*Michael F. Iossi, M.D.
St. Louis, MO
Jeffrey E. Johnson, M.D.
St. Louis, MO
Sandra E. Klein, M.D.
St. Louis, MO
Jeremy J. McCormick, M.D.
St. Louis, MO
220. Does Modified Footwear Improve Gait After Ankle Arthrodesis?
*Daniel A. Jones, M.D.
St. Louis, MO
David E. Karges, D.O.
St. Louis, MO
Berton R. Moed, M.D.
St. Louis, MO
221. Outcomes of the Bridle Procedure for the Treatment of Traumatic Foot Drop
E. S. Paxton, M.D.
St. Louis, MO
Julienne Lippe, M.D.
St. Louis, MO
Kay L. Bohnert, M.S.
St. Louis, MO
David R. Sinacore, M.D.
St. Louis, MO
Mary Hastings, M.D.
St. Louis, MO
*Jeremy J. McCormick, M.D.
St. Louis, MO
Sandra E. Klein, M.D.
St. Louis, MO
Jeffrey E. Johnson, M.D.
St. Louis, MO
222. Does Fibular Sesamoidectomy Cause Hallux Varus? Our Experience
John G. Anderson, M.D.
Grand Rapids, MI
Donald R. Bohay, M.D.
Grand Rapids, MI
*John D. Maskill, M.D.
Grand Rapids, MI
Kuldeep Gadkari, M.D.
Grand Rapids, MI
Michelle A. Padley, B.S.
Grand Rapids, MI
223. Ankle Fusion Takedown and Conversion to a Total Ankle Arthroplasty
*Donald R. Bohay, M.D.
Grand Rapids, MI
John G. Anderson, M.D.
Grand Rapids, MI
John D. Maskill, M.D.
Grand Rapids, MI
Kuldeep Gadkari, M.D.
Grand Rapids, MI
Michelle A. Padley, B.S.
Grand Rapids, MI
Lindsey A. Behrend, B.S.
Grand Rapids, MI

SUNDAY, APRIL 21, 2013

224. Analysis of Tibial Osteotomy
Techniques for the Treatment of Foot
and Ankle Disorders

*Mohamed Saad, M.D.
Royal Oak, MI
Erin A. Baker, M.S.
Royal Oak, MI
Kevin C. Baker, Ph.D.
Royal Oak, MI
Philip Shaheen, B.S.
Royal Oak, MI
Paul T. Fortin, M.D.
Royal Oak, MI

Departure

225. Effects of First Ray Instability on
Midfoot Joint Forces and Forefoot
Ground Force Distribution: A Cadaver
Study

*John C. Tanner, M.D.
Grand Rapids, MI
Travis Burgers, Ph.D.
Grand Rapids, MI
Cameron G. Patthanachoenphon, M.D.
Grand Rapids, MI
Matthew J. Dubiel, B.S.
Grand Rapids, MI
James Mason, Ph.D.
Grand Rapids, MI
Donald R. Bohay, M.D.
Grand Rapids, MI
John G. Anderson, M.D.
Grand Rapids, MI

Lunch on your own

12:45 p.m.

Board of Directors' Meeting

1:00 p.m. – 3:00 p.m.

Multimedia Education

Dinner on your own

POSTER PRESENTATIONS

The following posters will be displayed in the Amelia Foyer from 7:30 a.m. to 1:00 p.m. on Thursday, Friday, and Saturday as well as on Thursday evening from 6:00 p.m. to 7:30 p.m.

The poster presenters will be available on Thursday, Friday, and Saturday during the coffee breaks (10:30 a.m. to 11:00 a.m.) and on Thursday evening from 6:00 p.m. to 7:30 p.m. to answer any questions. *AMA PRA Category 1 Credit™* can be earned for poster viewing only when the presenters are available.

AB: Poster will be displayed for the entire meeting

A: Poster will be displayed Thursday only

B: Poster will be displayed Friday and Saturday only

Hand

- 1-AB** Long-Term Outcomes After Radiocarpal Dislocation: A Prospective Review
*Brandon J. Yuan, M.D.
Rochester, MN
David G. Dennison, M.D.
Rochester, MN
Bassem T. Elhassan, M.D.
Rochester, MN
Sanjeev Kakar, M.D.
Rochester, MN

Shoulder

- 2-AB** The Terrible Triad of the Shoulder Revisited: Outcomes Are Worse Than Realized
*David M. Brogan, M.D.
Rochester, MN
Bradley C. Carofino, M.D.
Rochester, MN
Robert J. Spinner, M.D.
Rochester, MN
Scott P. Steinmann, M.D.
Rochester, MN
Allen T. Bishop, M.D.
Rochester, MN
Alexander Y. Shin, M.D.
Rochester, MN
- 3-AB** Native Version Humeral Head Cutting Guide: Individualized Version Alignment in Shoulder Arthroplasty
*Matthew S. Ross, M.D.
Dayton, OH
L. Joseph Rubino, M.D.
Dayton, OH

Foot and Ankle

- 4-AB** Proximal Phalanx Structural Integrity in Flexor to Extensor Tendon Transfer: A Biomechanical Study
*Matthew S. Ross, M.D.
Dayton, OH
Greg Gould, B.S.
Dayton, OH
Katie Flower B.S.
Dayton, OH
Richard T. Laughlin, M.D.
Dayton, OH
- 5-AB** Reconstruction of Chronic Instability of the Syndesmosis with Open Reduction and Endobutton Stabilization
*James I. Cameron, M.D.
Chicago, IL
Gautam Malhotra, M.D.
Chicago, IL
Brian C. Toolan, M.D.
Chicago, IL

- 6-AB** Results of Total Ankle Arthroplasty with the Agility LP System
John G. Anderson, M.D.
Grand Rapids, MI
Donald R. Bohay, M.D.
Grand Rapids, MI
John D. Maskill, M.D.
Grand Rapids, MI
Rohan A. Habbu, M.D.
Grand Rapids, MI
*Kuldeep Gadkari, M.S., M.B.B.S.
Grand Rapids, MI
Michaelle A. Padley, B.S.
Grand Rapids, MI
Sara Grant, P.A.
Grand Rapids, MI
- 7-AB** The Longitudinal Lisfranc Variant
*Nikhil R. Oak, M.D.
Ann Arbor, MI
Arthur Manoli, II, M.D.
Pontiac, MI
James R. Holmes, M.D.
Ann Arbor, MI
- 10-AB** Epidemiology of Knee Sprains in Females Presenting to Emergency Departments in the United States
*Shaunette Davey, D.O.
El Paso, TX
Brian R. Waterman, M.D.
El Paso, TX
Julia O. Bader, Ph.D.
El Paso, TX
Courtney A. Holland, M.D.
El Paso, TX
Philip J. Belmont, Jr., M.D.
El Paso, TX
- 11-AB** Epidemiology and Outcomes of Concussions in Major League Baseball
*Vincent M. Moretti, M.D.
Chicago, IL
Leslie E. Schwindel, M.D.
Chicago, IL
Jonathan N. Watson, M.D.
Chicago, IL
Mark R. Hutchinson, M.D.
Chicago, IL

Tumor

- 8-AB** A Novel Murine Model of Post-Radiation Osteonecrosis Following Simulated Soft-Tissue Sarcoma Resection
*Matthew A. Popa, M.D.
Grand Rapids, MI
Tessa Grabinski, B.S.
Grand Rapids, MI
Travis Burgers, Ph.D.
Grand Rapids, MI
Daniel Hess, B.S.
Grand Rapids, MI
Matthew Steensma, M.D.
Grand Rapids, MI
- 12-AB** Evaluation of Hip Internal and External Rotation Range of Motion as an Injury Risk Factor for Hip, Abdominal, and Groin Injuries in Professional Baseball
Xinning Li, M.D.
New York, NY
Matthew M. Thompson, M.D.
New York, NY
Courtney K. Dawson, M.D.
New York, NY
*John Steele, B.S.
New York, NY
Joseph Nguyen, B.S.
New York, NY
Richard Ma, M.D.
New York, NY
Struan H. Coleman, M.D.
New York, NY

Sports

- 9-AB** Contribution of Tension-Reducing Rotator Cuff Sutures on Plate Fixation of Proximal Humerus Fractures
*Philip M. Sinatra, M.D.
St. Louis, MO
J. Gary Bledsoe, Ph.D.
St. Louis, MO
Scott G. Kaar, M.D.
St. Louis, MO

Pediatrics

- 13-AB** Extreme Femoral Shortening: An Approach to the Chronically Dislocated Hip in the Non-Ambulatory Pediatric Population
*Jay V. Kalawadia, M.D.
Chicago, IL
Ronak M. Patel, M.D.
Chicago, IL
M. Layne Jensen, M.D.
Chicago, IL
John F. Sarwark, M.D.
Chicago, IL

14-AB The Post-Traumatic Proximal Cross Union of the Forearm in Childhood. What Is Recommendable?

*Christiane G. Kruppa, M.D.
Bochum, Germany
Thomas A. Schildhauer, M.D.
Bochum, Germany
Marcel Dudda, M.D.
Bochum, Germany

Trauma

15-AB A Clinical Evaluation of Alternative Fixation Techniques for Medial Malleolus Fractures

*Hayley Barnes, B.S.
St. Louis, MO
Lisa K. Cannada, M.D.
St. Louis, MO
J. Tracy Watson, M.D.
St. Louis, MO

16-AB Geriatric Polytrauma with Orthopedic Injuries: Is Operative Fixation a Death Sentence?

*Adham A. Abdelfattah, M.D.
St. Louis, MO
Michael Del Core
St. Louis, MO
Lisa K. Cannada, M.D.
St. Louis, MO
J. Tracy Watson, M.D.
St. Louis, MO

17-AB Evaluation of the Utility of the Wells Score for Predicting Pulmonary Embolus in Patients Admitted to the Orthopedic Trauma Service

Matthew Young, B.S.
Providence, RI
Melissa A. Christino, M.D.
Providence, RI
Nikhil A. Thakur, M.D.
Providence, RI
Scott A. Ritterman, M.D.
Providence, RI
Steve Reinert, M.S.
Providence, RI
Christopher T. Born, M.D.
Providence, RI
*Alan H. Daniels, M.D.
Providence, RI

18-AB Fibular Shaft Allograft Support of Posterior Joint Depression in Tibial Plateau Fractures

*Adam A. Sassooun, M.D.
Orlando, FL
Michael E. Torchia, M.D.
Rochester, MN
William W. Cross, III, M.D.
Rochester, MN
Joseph R. Cass, M.D.
Rochester, MN
S. Andrew Sems, M.D.
Rochester, MN

19-AB Ligamentous Contribution to Pelvic Stability in an Open-Book Injury

*Adham A. Abdelfattah, M.D.
St. Louis, MO
Berton R. Moed, M.D.
St. Louis, MO

Spine

20-AB The Effect of Lateral Lumbar Interbody Fusion on Sagittal Balance and Spinopelvic Parameters in Degenerative Scoliosis: A Case-Control Study

*Yaser M. Baghdadi, M.D.
Rochester, MN
Ahmad N. Nassr, M.D.
Rochester, MN
A. Noelle Larson, M.D.
Rochester, MN
Arjun S. Sebastian, M.D.
Rochester, MN
Quanqi Cui, M.D.
Rochester, MN
Mark B. Dekutoski, M.D.
Rochester, MN

Knee

21-AB Surgical Time Predicts Readmission for Non-Infectious Reasons After THA and TKA

*Tyler R. Wanke, B.S.
Chicago, IL
Geoffrey S. Marecek, M.D.
Chicago, IL
James M. Saucedo, M.D.
Chicago, IL
Jungwha Lee, Ph.D.
Chicago, IL
S. David Stulberg, M.D.
Chicago, IL
Lalit Puri, M.D.
Chicago, IL

- 22-AB** Flexion Instability Following Primary TKA: Long-Term Results of 96 Patients Requiring Revision Over a 30-Year Period
 *J. Ryan Martin, M.D.
 Rochester, MN
 Christopher L. Camp, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
- 23-AB** Difference Between Postoperative and Preoperative Hemoglobin After THA and TKA Predicts Readmission within 90 Days
 *Tyler R. Wanke, B.S.
 Chicago, IL
 Geoffrey S. Marecek, M.D.
 Chicago, IL
 James M. Saucedo, M.D.
 Chicago, IL
 Jungwha Lee, Ph.D.
 Chicago, IL
 S. David Stulberg, M.D.
 Chicago, IL
 Lalit Puri, M.D.
 Chicago, IL
- 24-AB** Complications in Conventional vs. Computer-Assisted Navigation in Sequential Bilateral Total Knee Arthroplasty
 *Michael K. Merz, M.S.
 Chicago, IL
 Frank C. Bohnenkamp, M.D.
 Chicago, IL
 Kamran N. Sadr, M.D.
 Chicago, IL
 Wayne M. Goldstein, M.D.
 Morton Grove, IL
 Alexander C. Gordon, M.D.
 Morton Grove, IL
- 25-AB** Analysis of Coronal Alignment After Total Knee Arthroplasty Using Patient Specific Cutting Blocks
 *Matthew D. Clayton, M.D.
 Columbus, OH
 Robert A. Durbin, M.D.
 Columbus, OH
 Matthew Wagner, M.D.
 Columbus, OH
 Benjamin C. Taylor, M.D.
 Columbus, OH
 Jeffrey Backes, M.D.
 Columbus, OH
- 26-A** Young Total Knee Arthroplasty Patients: Are They Really Active?
 *James A. Keeney, M.D.
 St. Louis, MO
 Ryan M. Nunley, M.D.
 St. Louis, MO
 Rick W. Wright, M.D.
 St. Louis, MO
 Robert L. Barrack, M.D.
 St. Louis, MO
 John C. Clohisy, M.D.
 St. Louis, MO
- 26-B** Intermediate Follow-Up of the Mobile-Bearing TC III Revision Total Knee Arthroplasty
 *Benjamin K. Wilke, M.D.
 Rochester, MN
 Eric R. Wagner, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
- 27-A** MRI Analysis of the Extensor Mechanism in Patients Who Do and Do Not Exhibit Patellar Instability
 *Chloe J. Mellecker, B.S.
 Iowa City, IA
 Kyle R. Duchman, M.D.
 Iowa City, IA
 Daniel R. Thedens, Ph.D.
 Iowa City, IA
 John P. Albright, M.D.
 Iowa City, IA
- 27-B** Successful and Unsatisfactory Outcomes of Manipulation Following Total Knee Arthroplasty
 *Harpreet S. Bawa, M.D.
 Cleveland, OH
 Glenn D. Wera, M.D.
 Cleveland, OH
 Matthew J. Kraay, M.D.
 Cleveland, OH
 Randall E. Marcus, M.D.
 Cleveland, OH
 Victor M. Goldberg, M.D.
 Cleveland, OH
- 28-A** Survival and Clinical Outcome of Isolated High Tibial Osteotomy and Biological Knee Reconstruction
 Joshua D. Harris, M.D.
 Chicago, IL
 *Ryan J. McNeilan, M.D.
 Columbus, OH
 David C. Flanigan, M.D.
 Columbus, OH

- 28-B** Correlation of Aspiration Results with the Etiology of Aseptic Failure in Total Knee Arthroplasty
*Peter N. Chalmers, M.D.
Chicago, IL
Kevin Hudak, M.D.
Chicago, IL
Scott M. Sporer, M.D.
Chicago, IL
Brett R. Levine, M.D.
Chicago, IL
- 29-A** Tibial Plateau Coverage in UKA: A Comparison of Patient Specific and Standard Implants
*Dylan P. Carpenter, M.D.
Little Rock, AR
C. Lowry Barnes, M.D.
Little Rock, AR
- 29-B** Obstacles to Early Mobilization After Total Joint Arthroplasty and Effect On Hospital Length of Stay
Jeffrey R. Backes, M.D.
Columbus, OH
Matthew Clayton, M.D.
Columbus, OH
*Jared C. Bentley, M.D.
Columbus, OH
Joel R. Politi, M.D.
Columbus, OH
- 30-A** Complications of Oxford Partial Knee Arthroplasty: A Review of 300 Cases by a Single Surgeon
*Roy Abraham, M.D.
Council Bluffs, IA
Joseph Abraham
Council Bluffs, IA
- 30-B** Patterns and Duration of Perioperative Narcotic Prescribing in Total Joint Arthroplasty Patients
*Darren T. Herzog, M.D.
Detroit, MI
Basma Khoury, M.S.
Southfield, MI
Julia Carp, D.O.
Royal Oak, MI
David C. Markel, M.D.
Southfield, MI
- 31-A** Posterior Femoral Condyle Radiolucency in Mobile Bearing Total Knee Arthroplasty
*Frank C. Bohnenkamp, M.D.
Chicago, IL
Matthew J. Simons, M.D.
Chicago, IL
Andrew J. Pastor, M.D.
Chicago, IL
Wayne M. Goldstein, M.D.
Chicago, IL
- 31-B** Perioperative Outcomes of Solid Organ Transplant Patients Following Total Knee Arthroplasty
Thomas Myers, M.D.
Cleveland, OH
Jesse Schold, Ph.D.
Cleveland, OH
Edward Soltesz, M.D.
Cleveland, OH
Charles Winans, M.D.
Cleveland, OH
*Wael K. Barsoum, M.D.
Cleveland, OH
- 32-A** Functional Outcomes of MPFL Reconstruction vs. Graft Tissue Placement
*Evan P. Larson, B.S.
Iowa City, IA
Alan D. Edwards, B.S.
Iowa City, IA
John P. Albright, M.D.
Iowa City, IA
- 32-B** The Relationship Between Posterior Tibial Slope and ACL Deficiency at Time of TKA
*Adam Norton, B.S.
Iowa City, IA
Annunziato Amendola, M.D.
Iowa City, IA
Phinit Phisitkul, M.D.
Iowa City, IA
Justin Greiner, B.S.
Iowa City, IA
John J. Callaghan, M.D.
Iowa City, IA

Hip

33-AB Worrisome Infection Rates After Revision of Failed Metal-on-Metal (MOM) Hip Arthroplasty

*Robert E. Van Demark, III, M.D.
Rochester, MN
Cody Wyles, B.S.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN

34-AB The Clinical Value of the Histopathological Interpretation of Arthroscopic Hip Shavings: What Do We Learn?

*Joel M. Post, D.O.
East Lansing, MI
Landon R. Fine, D.O.
East Lansing, MI
Joseph A. Parks, B.S.
East Lansing, MI
Michael D. Shingles, D.O.
East Lansing, MI
Michael D. Austin, D.O.
Lansing, MI

35-AB MRI Lesion Size and Prednisone Use Predict Success After Simple Head Decompression and Injection of Autologous Bone Marrow Concentrate

*J. Ryan Martin, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
Christopher L. Camp, M.D.
Rochester, MN

36-AB A Retrospective Study of a Comprehensive Pain Protocol Using a Continuous Fascia Iliaca Compartment Block in Patients Treated for Hip Fractures

*Geoffrey R. Rieser, M.D.
Dayton, OH
Elizabeth M. Dulaney-Cripe, M.D.
Dayton, OH
Brett C. LaFleur, M.D.
Dayton, OH
Scott J. Hadaway, M.D.
Dayton, OH
Carole A. Smith, R.N.
Dayton, OH
Ryan D. Bauman, M.D.
Dayton, OH
Ronald J. Markert, Ph.D.
Dayton, OH
Michael J. Prayson, M.D.
Dayton, OH
Richard T. Laughlin, M.D.
Dayton, OH

37-AB Seven Day Abbreviated Two-Stage Exchange Arthroplasty for Periprosthetic Joint Infection: Two-to Six-Year Results

*Timothy E. Ekpo, D.O.
Grand Blanc, MI
Javad Parvizi, M.D.
Philadelphia, PA
Brian C. de Beaubien, M.D.
Saginaw, MI

38-A Does Pain Chronicity in Patients with Symptomatic Acetabular Dysplasia Correlate with Intra-Articular Disease?

Geneva R. Baca, B.S.
St. Louis, MO
*John C. Clohisy, M.D.
St. Louis, MO
Paul E. Beaulé, M.D.
Ottawa, Ontario, Canada
Daniel J. Sucato, M.D.
Dallas, TX
Perry L. Schoenecker, M.D.
St. Louis, MO
Young Jo Kim, M.D.
Boston, MA
David A. Podeszwa, M.D.
Dallas, TX
Robert T. Trousdale, M.D.
Rochester, MN
Ira Zaltz, M.D.
Detroit, MI
ANCHOR Group
St. Louis, MO

*Denotes Presenter

- 38-B** Symptomatic Femoroacetabular Impingement: Are There Gender-Specific Disease Characteristics?
Jeffrey J. Nepple, M.D.
St. Louis, MO
Cassandra Riggs, M.D.
St. Louis, MO
Geneva R. Baca, B.S.
St. Louis, MO
James R. Ross, M.D.
St. Louis, MO
*John C. Clohisy, M.D.
St. Louis, MO
- 39-A** Results of Core Decompression for AVN of Femoral Head Using Expandable Reamer and Placement of Biologic "Filler"
*Benjamin S. Miller, M.D.
Little Rock, AR
C. Lowry Barnes, M.D.
Little Rock, AR
- 39-B** Are Male Patients with Acetabular Dysplasia at Higher Risk for Secondary Femoroacetabular Impingement?
Ljiljana Bogunovic, M.D.
St. Louis, MO
Jeffrey J. Nepple, M.D.
St. Louis, MO
Cassandra Riggs, M.D.
St. Louis, MO
Meghan C. Gottlieb, M.S.
St. Louis, MO
Geneva R. Baca, B.S.
St. Louis, MO
Gail E. Pashos, B.S.
St. Louis, MO
*John C. Clohisy, M.D.
St. Louis, MO
- 40-A** Young Total Hip Arthroplasty Patients: Are They Really Active?
*James A. Keeney, M.D.
St. Louis, MO
Ryan M. Nunley, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
- 40-B** Do Surgeons and Third Party Payers Agree on the Criteria to Diagnose Femoroacetabular Impingement?
*James R. Ross, M.D.
St. Louis, MO
Paul E. Beaule, M.D.
Ottawa, Ontario, Canada
Geneva R. Baca, B.S.
St. Louis, MO
Ira Zaltz, M.D.
Detroit, MI
David A. Podeszwa, M.D.
Dallas, TX
Daniel J. Sucato, M.D.
Dallas, TX
Perry L. Schoenecker, M.D.
St. Louis, MO
Michael B. Millis, M.D.
Boston, MA
Young-Jo Kim, M.D.
Boston, MA
Robert T. Trousdale, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
Ernest L. Sink, M.D.
New York, NY
John C. Clohisy, M.D.
St. Louis, MO
ANCHOR Group
St. Louis, MO
- 41-A** Short Stem Metaphyseal Engaging Implants: The Impact of Design on Contact Area and Positioning
Dan Curtis, B.S.
Chicago, IL
Alejandro Marquez-Lara, M.D.
Chicago, IL
*Ronak M. Patel, M.D.
Chicago, IL
S. David Stulberg, M.D.
Chicago, IL

- 41-B** How Reliable Are Radiographic Parameters of Femoroacetabular Impingement?
 Jeffrey J. Nepple, M.D.
 St. Louis, MO
 John M. Martell, M.D.
 Chicago, IL
 Ira Zaltz, M.D.
 Detroit, MI
 Young-Jo Kim, M.D.
 Boston, MA
 Michael B. Millis, M.D.
 Boston, MA
 Daniel J. Sucato, M.D.
 Dallas, TX
 *John C. Clohisy, M.D.
 St. Louis, MO
- 42-A** Radiographic Comparison of Limb Length Discrepancies in Single-Stage vs. Two-Stage Bilateral Total Hip Arthroplasty
 *Matthew J. Simons, M.D.
 Chicago, IL
 Daniel E. Bronsnick, M.D.
 Chicago, IL
 Frank C. Bohnenkamp, M.D.
 Chicago, IL
 Wayne M. Goldstein, M.D.
 Chicago, IL
- 42-B** Is Unilateral Balance Symmetrical Following Total Joint Arthroplasty One Year Following Surgery?
 Robin M. Queen, Ph.D.
 Durham, NC
 Michael P. Bolognesi, M.D.
 Durham, NC
 Samuel S. Wellman, M.D.
 Durham, NC
 Robert J. Butler, M.D.
 Durham, NC
 David E. Attarian, M.D.
 Durham, NC
 *C. Lowry Barnes, M.D.
 Little Rock, AR
- 43-A** Cementless Acetabular Fixation without Bone Graft in High Grade Hip Dysplasia: Minimum 20-Year Follow-Up
 *Justin Greiner, B.S.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Steve S. Liu, M.D.
 Iowa City, IA
 Devon D. Goetz, M.D.
 West Des Moines, IA
 Richard C. Johnston, M.D.
 Iowa City, IA
- 43-B** Anterior Approach Total Hip Arthroplasty Using a Proximal Metaphyseal Bone Sparing Stem: Surgical Technique and Early Complications
 *Mohammed M. Ahmed, M.D.
 St. Louis, MO
 Thomas J. Otto, M.D.
 St. Louis, MO
 Berton R. Moed, M.D.
 St. Louis, MO
- 44-A** Revision Total Hip Arthroplasty Using Modular Tapered Stems
 *Robert D. Russell, M.D.
 Dallas, TX
 Tyler C. McDonald, B.S.
 Dallas, TX
 Kenneth A. Estrera, M.D.
 Dallas, TX
 Michael H. Huo, M.D.
 Dallas, TX

Education

- 44-B** Podium Disclosures at the 2012 AAOS Meeting: An Exercise in Going Through the Motions
 *Adam A. Sassoon, M.D.
 Orlando, FL
 Robert T. Trousdale, M.D.
 Rochester, MN

- 45-AB** PGY-1 Orthopedic Surgery Residents: Rotation and Educational Experience During the Internship Year
*Robert F. Murphy, M.D.
Memphis, TN
Thomas W. Throckmorton, M.D.
Memphis, TN
Richard A. Smith, Ph.D.
Memphis, TN
Frederick M. Azar, M.D.
Memphis, TN
James H. Beaty, M.D.
Memphis, TN
S. Terry Canale, M.D.
Memphis, TN
David R. Richardson, M.D.
Memphis, TN
- 46-AB** Reliability of an Adaptive Computer-Based Patient Outcomes Scoring Tool in Orthopedic Trauma Patients
*Brett D. Crist, M.D.
Columbia, MO
Gregory J. Della Rocca, M.D.
Columbia, MO
David A. Volgas, M.D.
Columbia, MO
James P. Stannard, M.D.
Columbia, MO
- 47-AB** Orthopedic Surgery Residency Application Process: Survey of Graduating Medical Students
*Debdut Biswas, M.D.
Chicago, IL
Nikhil N. Verma, M.D.
Chicago, IL
Walter W. Vikus, M.D.
Chicago, IL
Brett R. Levine, M.D.
Chicago, IL
- 48-AB** Surgical Telementoring: Augmented Reality in Orthopedic Education
*Jonathan K. Jennings, M.D.
Birmingham, AL
Terry B. Clay, B.S.
Birmingham, AL
Joseph A. Kundukulam, B.S.
Birmingham, AL
Evan Sheppard, B.S.
Birmingham, AL
Matthew May, B.S.
Birmingham, AL
Herrick J. Siegel, M.D.
Birmingham, AL
Brent A. Ponce, M.D.
Birmingham, AL
- 49-AB** A Surgical Skills Simulation Training Program in an Articular Fracture Model for Orthopedic Junior Residents
Matthew D. Karam, M.D.
Iowa City, IA
Gary T. Ohrt, B.S.
Iowa City, IA
Geb W. Thomas, Ph.D.
Iowa City, IA
Tameem M. Yehyaw, M.D.
Iowa City, IA
Donald D. Anderson, Ph.D.
Iowa City, IA
J. Lawrence Marsh, M.D.
Iowa City, IA
*Jenniefer Y. Kho, M.D.
Iowa City, IA

IMPORTANT INFORMATION REGARDING THIRTY-FIRST ANNUAL MEETING

WHAT IS INCLUDED IN YOUR REGISTRATION FEE?

See page 3 regarding the registration fee for the Wednesday, April 17, 2013, pre-meeting course “Current Concepts in the Management of Hip Disorders: Pediatrics, Preservation, Trauma, and Arthroplasty”.

Physician Registration

- Continental Breakfast in Exhibit Area on Thursday, Friday, and Saturday
- Coffee Breaks in the Exhibit Area
- Welcome Reception and Buffet Dinner on Wednesday
- Dinner/Dance on Friday
- Meeting Expenses - As with all meetings, your registration fee helps to cover all expenses of the annual meeting, such as name badges, printing, postage, audiovisual equipment, etc.

Spouse/Guest Registration

- Continental Breakfast at the Spouse/Guest Welcome on Thursday
- Welcome Reception and Buffet Dinner on Wednesday
- Dinner/Dance on Friday
- Name badge

Controlling Registration Fees

Charges for functions, meeting space, and amenities are ameliorated in direct ratio to the number of rooms booked through the Association’s block. Consolidating our reservations helps control registration fees.

The 2013 meeting registration fees are as follows:

	On or before March 15, 2013	After March 15, 2013
Member	\$850.00	\$950.00
Nonmember	\$1,250.00	\$1,350.00
Resident/Fellow/Allied Health	\$500.00	\$600.00
Spouse/Guest	\$100.00	\$100.00
Exhibitor—company representative (includes Wed. & Fri. dinners)	\$270.00	\$270.00
Exhibitor—company representative (includes Wed. dinner)	\$120.00	\$120.00
Exhibitor—company representative (includes Fri. dinner)	\$150.00	\$150.00
Exhibitor—company representative (no dinners included)	\$0.00	\$0.00

POLICY REGARDING CHILDREN’S ATTENDANCE

Children

All children attending the Thirty-First Annual Meeting are welcome to attend various functions with a parent. Should children wish to attend the evening functions in the MAOA program, a ticket must be purchased in advance for each event. Children’s evening meal tickets (ages 5-12) for the Wednesday and Friday children’s buffet may be purchased via the MAOA web site when registering for the meeting. At the Omni Amelia Island Plantation Resort, children age 18 and under stay free of charge, when sharing a room with an adult.

OMNI AMELIA ISLAND PLANTATION RESORT

The **Omni Amelia Island Plantation** is Florida's premier AAA-Four Diamond destination resort which is in the process of completing an 85 million dollar renovation. It is located just 29 miles north of Jacksonville near Fernandina Beach. This resort features luxurious accommodations, family-friendly activities, and 13 miles of pristine beaches. Amelia Island has long been a source of beauty, enjoyment, and wonder, and offers virtually unlimited access to its coast. Visitors will experience an unparalleled sense of calm and peace as they stroll along the Island's entire length which is available for running, walking, or just sitting and enjoying.

The newly 85 million dollar renovation of the Omni Amelia Island Plantation Resort will offer 1,350 acres of an array of superior ocean view deluxe hotel rooms to sumptuous ocean front suites and penthouses. It will include the sister property "The Villas of Amelia Island" which are ocean view and resort view family villas. The beauty of the resort is seen in ocean-top sunrises, miles of wide beaches, and spectacular sunsets over green salt marshes. The resort features world-renowned golf and tennis facilities, fine dining, entertainment, and shopping.

MAOA has been allotted a variety of accommodations which include ocean view accommodations at the hotel, ocean view villas in the adjoining building, and resort view villas throughout the property. Early registration is recommended for choice room selections. All villas are perfect for families with small children. These special MAOA group room rates are valid three (3) days preceding and three (3) days following the meeting.

The MAOA daily room rate is as follows:

Ocean View Hotel Rooms	\$279.00
Ocean Front Hotel 1 Bedroom Suite	\$379.00
Ocean View 1 Bedroom Villa	\$324.00
Ocean View 2 Bedroom Villa	\$369.00
Ocean View 3 Bedroom Villa	\$414.00
Resort View 1 Bedroom Villa	\$304.00
Resort View 2 Bedroom Villa	\$329.00
Resort View 3 Bedroom Villa	\$379.00

Note: The above rates are European plan (no meals included) and are subject to applicable state and local taxes, which are currently 7% state tax and 4% occupancy tax and are subject to change.

Room rates quoted above include: local and toll free access, unlimited high speed Internet access in all applicable accommodations, unlimited on-property shuttle transportation, self parking, unlimited use of health and fitness center, 1 bucket of range balls, meeting concierge staff, in-room coffee, and 24/7 public safety staff. **Please be advised that there is no wireless Internet access in any of the meeting rooms.**

Gratuities for bellmen, room housekeepers, golf attendants, and valet parkers are at each guest's discretion.

REGISTER EARLY

Early registration is recommended. The Omni Amelia Island Plantation Resort is holding a block of rooms for attendees, and these rooms may be obtained by making reservations through the MAOA web site (www.maoa.org). This allows MAOA members first choice of these rooms. Reservation requests from MAOA members will be given priority until March 15, 2013. Following that date, reservations will be accepted on space availability basis, and if the group rate is not available, the prevailing hotel rack rates will apply.

GENERAL

HOW TO REGISTER AND RESERVE A HOTEL ROOM

Visit the Mid-America Orthopaedic Association web site (www.maoa.org) to register for the meeting and reserve a hotel room. Click on "2013 Annual Meeting". If you encounter any problems registering or making your room reservation, please call the MAOA office at 507-281-3431. Room reservations will be closed March 15, 2013, or earlier if all hotel space has been allocated.

HOTEL CONFIRMATION AND CANCELLATION POLICY

When requesting your room reservation, you will need a valid American Express, Diners Club, Discover Card, Visa, or MasterCard number and expiration date. Your credit card will be charged a one night deposit to confirm your reservation. Deposits will not be refunded unless the reservation is canceled seven (7) days prior to arrival. In the event your reservation is not canceled with the Hotel, and you do not check in on the confirmed arrival date, you will be charged one night's room and tax and the remaining nights of the reservation will be canceled. Reservations may be reinstated based on availability of the hotel, at the prevailing rate. Special consideration will be given in cases of illness or death of immediate family member, supported by medical certification.

Upon check-in, each guest will be asked to review the departure date stated on the registration card. The attendee may change the departure date at that time. If an attendee wishes to change the departure date after check-in, they may be charged an early departure fee.

MEETING REGISTRATION FEE CANCELLATION POLICY

Full meeting registration fees (less \$50.00 administrative fee) will be refunded if notice is received by March 15, 2013. All meeting cancellations must be received in writing. No refund of meeting registration fee will be granted if notice is received March 16, 2013, or later.

GROUND TRANSPORTATION

AIRPORT/HOTEL TRANSPORTATION

To/From Jacksonville International Airport (JAX)

The ***Omni Amelia Island Plantation Resort*** is located 29 miles/30 minutes from the Jacksonville International Airport. Omni Amelia Island Plantation Transportation Co. provides hourly shuttle service from Jacksonville International Airport to the resort **based on advanced reservations**. The present cost is \$45.00 per person one way and \$14.00 for each additional in the same party. Rates are inclusive of service charge and tax and subject to change. Private transportation is available at the rate of \$70.00 per person one way and \$20.00 for each additional in the same party. Reservations are required by phone at least 48 to 72 hours in advance.

Drivers and vehicles are scheduled based on guest arrival/departure information and are not available on-call at the airport. For reservations, please call 800-874-6878 or 904-277-5920.

WEATHER

Florida's subtropical climate has long been a strong drawing card for tourists and residents alike. At the heart of the "Sunshine State," the area's average annual temperature during the month of April is a comfortable 82 degrees. You will find sunny warm days combined with cool evening sea breezes.

SUGGESTED CLOTHING

Business attire is recommended for all podium/poster presenters. Casual dress will be the appropriate attire for all other Mid-America activities. Comfortable and elegant casual resort wear best describes the customary dress for all evening functions. We do suggest you pack a sweater or light jacket for the evenings. Don't forget your sunscreen for those hot afternoons on the beach.

HOTEL DINING

You are free to dine on your own on Thursday and Saturday. Dining options at Omni Amelia Island Plantation range from casual to elegant. The dining restaurants are family-friendly, offering many choices for children. In addition to the existing restaurants, a collection of new, more diverse dining options will be added with the new renovation. They will include a high-end steak house, pizza eatery, sushi/tapas restaurant, and a new beachside restaurant and bar that are sure to please any appetite.

Ocean Grill

Dinner at the Ocean Grill is an affair to remember with dishes that are updated seasonally with the finest steaks, seafood, chops, chef's specials, and fresh ingredients from the local farmers' market. Compliment your meal with wine from the enviable wine list and a lavish selection of desserts. With the view of the Atlantic Ocean from your table, savor the sounds, scents, and sophistication of the sea as you feast upon the finest in organic and specialty items prepared exquisitely for your dining experience.

Marché Burette

For a casual dining experience, guests can dine outside under the covered porch at Marché Burette, a southern style market and deli, all the while enjoying the Florida sunshine.

PLĀE

The restaurant is an acronym People Laughing and Eating, which is exactly what you'll do there. You'll love the contemporary atmosphere and innovative cuisine at PLĀE near the Spa and Shops.

Marsh View Bar & Grill

A naturally inviting gathering place, the Marsh View Bar & Grill offers a menu of southern-inspired, casual fare while overlooking vistas of the marsh, Intracoastal Waterway, and ninth hole of the Oak Marsh Golf Course.

The Verandah

If seafood is your choice, enjoy the The Verandah, with a charmingly casual atmosphere and daily chef specials. It's not just dinner at The Verandah, it's an experience. From the Cumberland crab cake appetizer to the main course of filet mignon and pan roasted lobster tail, there is something for everyone. Reservations are recommended.

Sunrise Café

Wake up to the sunrise over the Atlantic Ocean and enjoy your morning coffee and the breakfast buffet or a la carte menu at the Sunrise Café.

Falcon's Nest

The perfect spot to “fly by” and meet your friends for the best happy hour in town. Offering delicious pub-style menu items, including Build-Your-Own-Burger, where you can creatively design your own sandwich - choose your protein, toppings, and bun from a large list of options.

Beach Club Grill

A lazy day by the pool might not be complete without a frosty beverage or a fabulous lunch at the Beach Club Grill, located adjacent to the double-tier pool deck. Whether you are looking for a Philly Cheese Steak sub or an Asian salad, a bucket of shell-on shrimp, the Beach Club Grill can make it yours for lunch or dinner. A day at the beach or pool would not be complete without a trip to the Beach Club Grill.

If you have access to an automobile, you will also find a variety of excellent restaurants in the nearby town of Fernandina Beach.

SPA

The Spa and Salon at the Omni Amelia Island Plantation is dedicated to their guests and the environment and are proud of being “Clean and Green.” What this phrase means to you is that their products are carefully selected to ensure that each one is free from harmful chemicals, artificial ingredients, and preservatives. The spa is pleased to offer a relaxation area and garden, perfect before and after your treatments. Enjoy a vast array of herbal teas and organic citrus water, then relax and revive with their men’s and women’s spa treatments, including couple massages, facials, steam showers, signature Natural Ion Treatments, and Plantation Blossom Rituals. The full-service salon offers haircuts, hairstyling, make-up application, manicures, pedicures, and child and teen services. Yoga classes are available through the spa, hosted in the “spa tree house”.

Services are subject to availability and should be reserved in advance. Make appointments before your arrival so the Spa can meet your specific scheduling requests. When booking services, please advise the spa programmer of any health conditions, allergies, or injuries which could affect your service. Call toll free at 877-843-7722 or e-mail at thespa@aipfl.com

FITNESS CENTER

Located in the shady oaks of tranquil Racquet Park, the fitness facility is fully equipped with state-of-the-art exercise equipment, 20-yard indoor heated lap pool, accessory shop, and full service locker rooms. Omni Amelia Island Plantation has partnered with Vida Fitness, providing professional personal training services, and result driven exercise classes. The fitness center features Life Fitness treadmills, cross trainers, stair climbers, upright and recumbent bikes, and strength machines as well as Cybex weight equipment and free weights. All cardio equipment is equipped with an 11-inch LCD monitor which allows you to enjoy watching television while you work out. Both the men’s and women’s locker rooms boast steam rooms, saunas, whirlpools, sparkling clean showers, and are fully stocked with towels and amenities.

KIDS AT OMNI AMELIA ISLAND PLANTATION

The Omni Amelia Island Plantation offers a variety of age-specific, supervised recreational activities for children, teens, and young adults. Kids can spend the day playing games in **Kids Camp** or attend the **Just For Kids** dinner party on weekend evenings. Junior Adventurers includes activities and trips to entertain those from ages 9 to 15. They also offer recreation for the whole family, such as movie nights, and seasonal beach fires, games, and crafts. The staff specializes in fun for all ages, unforgettable experiences, and lifelong memories. Guests of all ages can sign up for a wide range of indoor and outdoor activities with the Recreation Department by calling 904-277-5180. All children and teen events are available upon reservation, 24-hour pre-registration is required (extension 5180).

TOURS AND ACTIVITIES

Wonderful activities are offered at Omni Amelia Island Plantation. It is their goal to offer the best and most fun experience you and your family can have while visiting their resort. The following are some of the fun activities:

- 3 1/2 miles of beach
- Indoor and outdoor pools
- 54 holes of championship golf
- Hiking and nature trails
- Horseback riding
- 23 Har-Tru tennis courts
- Biking
- Fishing
- Nature kayaking
- Guided Segway tours
- Shopping

AMELIA . . . The Island Behind the Resort

Amelia Island, located off the coast of northeast Florida, was voted #8 among Top 10 North American Islands by Condé Nast Traveler's Reader's Choice Awards in 2011. Known for its beaches, native wildlife, pristine marshes, and scenic waterways, this barrier island has long been a beloved destination. Named after Princess Amelia, daughter of England's King George II, and known as the "Isle of Eight Flags", Amelia Island is the only territory in the United States to have been ruled under eight flags of sovereignty. Once a haven for pirates, rumrunners, nobles, and confederates, the picturesque community of Fernandina Beach features an eclectic and charming 50-block area of homes, buildings, galleries, antique shops, and quaint eateries on the National Register of Historic Places. Today, Fernandina Beach has emerged as one of the most productive shrimping and fishing centers in the South. Sports enthusiasts and beach lovers will enjoy an array of outdoor recreational activities and 13 miles of coastline, while history enthusiasts will revel in a visit to the Amelia Island Museum of History, Fort Clinch, and Florida's oldest continuously operating bar, the Palace Saloon.

SHOPPING AT OMNI AMELIA ISLAND PLANTATION

The Omni Amelia Island Plantation Resort, has some of the best shopping on the Island. With local boutiques, familiar designers, gourmet food, and fabulous art galleries, The Shops of Amelia Island Plantation provide the perfect escape from the day-to-day grind.

- **Amelia's Signature Shop:** Amelia Island Plantation souvenirs; men's, women's, and children's apparel; gifts
- **Red Otter Outfitters:** Lifestyle apparel; flip-flops, luggage and accessories: featuring Patagonia, the North Face, Tilley, and ExOfficio
- **Harrison's Mercantile:** Fashion trends, casual wear, and accessories for men and women; Tommy Bahama
- **Chico's:** A specialty retailer of women's apparel and accessories from exclusive, private-label designs
- **Monkey Barrel:** Upscale children's clothing and toys
- **The Plantation Artists' Guild and Gallery:** Gallery of local artist's work. Workshops, demonstrations, and lectures available
- **Marché Burette:** Gourmet food market and deli, wine, spirits, gourmet cookware, and wine accessories
- **Sportswear and Equipment Shops:** Oak Marsh/Ocean Links Golf Pro Shop, Long Point Golf Pro Shop, and Tennis Pro Shop
- **The Amelia Shop** (Located in the hotel lobby): Sundries, reading materials, upscale resort wear, and logo shirts
- **The Nature Center:** A wide variety of nature items for all ages. Nature tours available.
- **The Spa Boutique:** Continue the rejuvenation of your body, mind, and spirit with the finest of spa products after you leave Amelia.

EXCLUSIVE MAOA ACTIVITIES

Thursday, April 18, 2013

- 1:30 p.m. **Sailing Charter** – Leave the resort for a short drive to Fernandina. You will sail out of Fernandina Harbor Marina on the Intracoastal Waterway, and enter the Cumberland Sound. Enjoy dolphins, sea turtles, manatees, and beautiful birds while you dream and explore the breathtaking views. Approximately 4 hours (including travel time)
Cost: \$135.00 per person
- 1:30 p.m. **Horseback Riding Tour** – Visit the island's only working ranch located on a 200+ acre preserve. The guides at Kelly Seahorse Ranch are professionally trained to assist you. Saddle up and ride on a gentle, well-trained horse, while enjoying the beautiful beaches of Amelia Island. All rides last about one hour.
Cost: \$105.00 per person

TENNIS

The Omni Amelia Island Plantation Resort tennis facility has been recognized as one of the finest resort tennis facilities in the world. With 23 Har-Tru® fast-dry clay courts, shaded beneath majestic live oaks in a beautiful Florida tennis setting, guests and professionals alike have enjoyed playing by day and night.

MAOA TENNIS TOURNAMENT

Tournament registration can be done via the MAOA web site (www.maoa.org).

The tournament is scheduled as follows:

Thursday, April 18, 2013 @ 2:00 p.m. \$45.00 per person

CHAMPIONSHIP GOLF

Amelia Links, designed by Pete Dye and Bobby Weed, is a 36-hole configuration that includes two signature courses, [Oak Marsh](#) and [Ocean Links](#). The natural beauty of tidal marshes, intercoastal waters, the Atlantic Ocean, and mature live oak trees that surround these courses provide stunning and breathtaking views that simultaneously amaze and challenge the novice and professional alike. Having the golf course be Audubon International Certified Sanctuaries not only preserves the natural heritage of the game, but also the wildlife that thrives there.

MAOA GOLF TOURNAMENT – SCRAMBLE FORMAT (shotgun start)

Tournament registration can be done via the MAOA web site (www.maoa.org).

The tournament is scheduled as follows:

Friday, April 19, 2013 @ 1:30 p.m. \$110.00 per person

RIVERBOAT TOUR

Friday, April 19, 2013

1:30 p.m. Riverboat Tour: Come aboard for an inspiring cruise experience that takes you along salt marshes, wilderness beaches, and historic river banks. See dolphins, sea turtles, manatees, egrets, herons, spoonbills, and osprey meld with shrimp boats, luxury yachts, and even a Civil War Fort along the way—all professionally narrated by local history and nature experts.

Approximately 3 hours (including travel time)

Cost: \$85 per person

BREAKOUT SESSIONS

Each Breakout Session will be devoted to a specific area of orthopedics and will allow sufficient time for discussion. The Breakout Sessions have been scheduled for Thursday, April 18; Friday, April 19; and Saturday, April 20. The Category 1 credits earned by attending the Breakout Sessions are included in the total number awarded by the MAOA 2013 Annual Meeting.

INSTRUCTIONAL COURSES

Instructional Courses have been scheduled for Friday, April 19 and Saturday, April 20. There is no additional cost to attend these courses. Please indicate your attendance at these four instructional courses when you register online so plans can be made accordingly. Continuing medical education credit for the instructional courses is included in the 33.50 hours of Category 1 time as outlined on page 1.

MULTIMEDIA EDUCATION

A multimedia education session will be held from 1:00-3:00 p.m. on Thursday, April 18; Friday, April 19; and Saturday, April 20. A comprehensive selection of AAOS DVDs will be available for your review. These DVDs will highlight surgical procedures and current concepts in orthopedics. Because of the variety of topics that will be available, each orthopedist should find these DVDs informative and helpful in his/her practice.

RESPONSIBILITY

MAOA, its Board members, officers, employees, and agents are not responsible for any personal injury, death, property damage or other loss an attendee, or any person accompanying the attendee, incurs while participating in, attending, attempting to attend, or returning from any MAOA activity or event which arises from any act or omission by any air carrier, public transport company, car rental company, hotel, subcontractor, or other person, organization, or entity, whether providing any services or facilities related thereto. All tickets, vouchers, and invitations are issued or provided subject to the foregoing. MAOA accepts no responsibility for any reason such as losses or expenses due to delay or changes in schedules, flight cancellations or misconnections, sickness, quarantine, weather, acts of God, strikes, government actions, war, terrorism, or other circumstances beyond its control.

Questions?? Contact:

Sue McKinley or Pam Kluck
Mid-America Orthopaedic Association
Kahler Mezzanine Level
20 Second Avenue, S.W.
Rochester, MN 55902-3013
Telephone: (507) 281-3431
Fax: (507) 281-0291
e-mail: midamerica@maoa.org
Web Site: www.maoa.org

FUTURE MEETINGS

- | | |
|-------------------|--|
| April 17-21, 2013 | Omni Amelia Island Plantation
Amelia Island, FL |
| April 23-27, 2014 | The Westin La Cantera Resort
San Antonio, TX |
| April 22-26, 2015 | The Westin Hilton Head Island Resort
Hilton Head Island, SC |
| April 13-17, 2016 | Hyatt Regency Coconut Point Resort
Bonita Springs, FL |

Notes

MAOA 2013 ANNUAL MEETING AT A GLANCE**Wednesday, April 17****REGISTRATION**

Conference Center, Concierge Desk
6:30 a.m. - 8:00 p.m.

SPEAKER READY ROOM

Conference Center, Ossabaw A
6:30 a.m. - 8:00 p.m.

MAOA/ICJR PRE-MEETING COURSE

Current Concepts in the Management of Hip Disorders: Pediatrics, Preservation, Trauma, and Arthroplasty
Conference Center, Amelia 3,4
7:00 a.m. - 5:00 p.m.

BOARD OF DIRECTORS' MEETING

Conference Center, Conference 2 Room
5:00 p.m.

EXHIBIT (COMPANY REP) MEETING

Conference Center, Amelia 1,2
6:30 p.m.

WELCOME RECEPTION AND BUFFET

Omni Event Lawn
7:00 p.m. - 9:00 p.m.

BONFIRE & S'MORES ON THE BEACH

Omni Beach
8:30 p.m. - 10:00 p.m.

Thursday, April 18**REGISTRATION**

Conference Center, Concierge Desk
6:00 a.m. - 1:00 p.m.

SPEAKER READY ROOM

Conference Center, Ossabaw A
6:00 a.m. - 1:00 p.m.

COMPANY-SPONSORED WORKSHOPS

(No CME offered)
6:30 a.m. - 8:00 a.m.

EXHIBITS/POSTERS OPEN

Conference Center, Amelia 1,2 and Amelia Foyer
7:30 a.m. - 1:00 p.m.

PLENARY SESSION

Conference Center, Amelia 3,4
8:05 a.m. - 10:30 a.m.

SPOUSE/GUEST HOSPITALITY

Live Oak Room
8:30 a.m. - 10:30 a.m.

SPOUSE/GUEST WELCOME

Live Oak Room
9:30 a.m.

SPOUSE/GUEST PROGRAM

Live Oak Room
9:45 a.m.

FIRST BUSINESS MEETING

Conference Center, Amelia 3,4
10:30 a.m. - 10:40 a.m.

POSTER VIEWING

Conference Center, Amelia Foyer
10:30 a.m. - 11:00 a.m.

BREAKOUT SESSIONS

11:00 a.m. - 1:00 p.m.

MULTIMEDIA EDUCATION

Conference Center, Ossabaw B
1:00 p.m. - 3:00 p.m.

OPTIONAL TOUR

Horseback Riding
1:30 p.m.

OPTIONAL TOUR

Sailing Charter
1:30 p.m.

MID-AMERICA TENNIS TOURNAMENT

Racquet Park
2:00 p.m.

EXHIBITORS' RECEPTION

Conference Center, Amelia 1,2
6:00 p.m. - 7:30 p.m.

POSTER VIEWING

Conference Center, Amelia Foyer
6:00 p.m. - 7:30 p.m.

DINNER AT LEISURE

Omni Amelia Island Plantation • Amelia Island, Florida

Friday, April 19	Saturday, April 20	Sunday, April 21
<p>REGISTRATION Conference Center, Concierge Desk 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Conference Center, Ossabaw A 6:00 a.m. - 1:00 p.m.</p> <p>INSTRUCTIONAL COURSES IC I – Cumberland A IC II – Cumberland B 6:30 a.m. - 8:00 a.m.</p> <p>EXHIBITS/POSTERS OPEN Conference Center, Amelia 1,2 and Amelia Foyer 7:30 a.m. - 1:00 p.m.</p> <p>PLENARY SESSION Conference Center, Amelia 3,4 8:00 a.m. - 10:35 a.m.</p> <p>POSTER VIEWING Conference Center, Amelia Foyer 10:35 a.m. - 11:00 a.m.</p> <p>BREAKOUT SESSIONS 11:00 a.m. - 1:00 p.m.</p>	<p>REGISTRATION Conference Center, Concierge Desk 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Conference Center, Ossabaw A 6:00 a.m. - 1:00 p.m.</p> <p>INSTRUCTIONAL COURSES IC III – Cumberland A IC IV – Cumberland B 6:30 a.m. - 8:00 a.m.</p> <p>EXHIBITS/POSTERS OPEN Conference Center, Amelia 1,2 and Amelia Foyer 7:30 a.m. - 1:00 p.m.</p> <p>SECOND BUSINESS MEETING Conference Center, Amelia 3,4 8:00 a.m. - 8:10 a.m.</p> <p>PLENARY SESSION Conference Center, Amelia 3,4 8:10 a.m. - 10:33 a.m.</p> <p>POSTER VIEWING Conference Center, Amelia Foyer 10:33 a.m. - 11:00 a.m.</p> <p>BREAKOUT SESSIONS 11:00 a.m. - 1:00 p.m.</p>	<p>Departures</p>
<p>MULTIMEDIA EDUCATION Conference Center, Ossabaw B 1:00 p.m. - 3:00 p.m.</p> <p>MID-AMERICA GOLF TOURNAMENT Ocean Links Golf Course 1:30 p.m.</p> <p>OPTIONAL TOUR Riverboat Tour 1:30 p.m.</p>	<p>BOARD OF DIRECTORS' MEETING Conference Center, Conference 2 Room 12:45 p.m.</p> <p>MULTIMEDIA EDUCATION Conference Center, Ossabaw B 1:00 p.m. - 3:00 p.m.</p>	
<p>STEEL LECTURE Conference Center, Amelia 3,4 6:30 p.m. - 7:30 p.m.</p> <p>DINNER/DANCE Omni Ballroom 1,2,3 7:30 p.m. - 11:30 p.m.</p>	<p>DINNER AT LEISURE</p>	

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2012-2013**

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1701 Aldersgate Road, Suite 3
Little Rock, AR 72205

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200 First Street, S.W.
Rochester, MN 55905

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7470 Waterfall Trail
Chagrin Falls, OH 44022



FUTURE MEETINGS

**April 17-21, 2013
Omni Amelia Island Plantation
Amelia Island, Florida**

**April 23-27, 2014
The Westin La Cantera Resort
San Antonio, Texas**

**April 22-26, 2015
The Westin Hilton Head Island
Hilton Head Island, South Carolina**

**April 13-17, 2016
Hyatt Regency Coconut Point Resort
Bonita Springs, Florida**