

# MID-AMERICA ORTHOPAEDIC ASSOCIATION



## Twenty-Ninth Annual Meeting



**April 6-10, 2011  
Hilton Tucson  
El Conquistador Resort  
Tucson, Arizona**

**Preliminary Program and Registration Information**  
Visit [www.maoa.org](http://www.maoa.org) to register online  
**Registration Deadline - March 7, 2011**

***New This Year***  
**“Back to the Basics: Hip and Knee Arthroplasty”**  
**Pre-meeting Course**

Dear Colleagues:

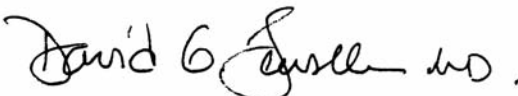
Enclosed is the preliminary program for the MAOA Annual Meeting April 6-10, 2011, to be held at the Hilton Tucson El Conquistador Resort in Arizona. By next April when we meet, I am sure many of us will welcome the chance to enjoy great educational and recreational opportunities available in the sunny Sonoran Desert around Tucson.

Program Committee Chair, Rafael Sierra, and the rest of the Program Committee – Diane Dahm, Craig Della Valle, Brian Donley, Mark Froimson, and Andrew Markiewitz – have put together an outstanding program for the 2011 Annual Meeting as you will see in the attached pages. In addition to the general sessions, they have scheduled five breakout sessions per day to accommodate the very best papers selected from the all time record number of abstracts submitted, ensuring we will hear the latest up-to-date information in all specialty areas.

Our Presidential Guest Speaker will be Professor Reinhold Ganz discussing his world-renowned insights into the etiology and treatment of hip arthritis. The Howard Steel Lecture will be given by Zonnie Gorman, daughter of Carl Gorman, one of the original Navajo “code talkers” in World War II. These Navajo servicemen completely befuddled the Japanese in the Pacific with their never broken “coded” Navajo radio communications. This intriguing tale of local heroes should be one of great interest to children, families, and all attendees. Aaron Rosenberg will be our Rapp Lecturer, and our Classics Speakers include lectures on Foot and Ankle by Dr. Charles Saltzman, Musculoskeletal Oncology by Dr. Franklin Sim, and Hip Arthroscopy by Dr. Joseph McCarthy. I am sure this will provide a great update on the latest trends and lessons learned in each of these speaker’s specialty area.

A very special feature that is new to this year’s meeting is a “Basics in Arthroplasty” course offered on Wednesday, April 6<sup>th</sup> during the day, prior to our Welcome Reception that night. Co-sponsored with the International Congress for Joint Reconstruction (ICJR), this course will cover all the essential principles of hip and knee arthroplasty with a stellar faculty drawn from across our Mid-America region. For those interested in hip and knee arthroplasty, please consider coming a little early to attend this exciting new course.

In addition to our outstanding educational program, the venue for our meeting next April is sure to provide a wonderful experience for our usually sun-starved members. The Hilton Tucson El Conquistador Resort is located on 500 acres of high Sonoran Desert terrain in the foothills of the Santa Catalina Mountains near the granite cliffs of Pusch Ridge. There is local hiking, golf on the adjacent 45-hole championship course, tennis courts, and a series of fantastic pool facilities with a 143-foot waterslide. Don’t overlook the romantic opportunities either whether it is a dinner for two, couples treatment at the on site spa, or stargazing at the nearby Sunset Point after an evening stroll (onsite babysitting services available!!). So look over the great program and recreational options and plan to join my wife Marti and I at the 2011 Annual Meeting in Tucson!



David G. Lewallen, M.D.  
President  
Mid-America Orthopaedic Association

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## **REGISTRATION INFORMATION**

**Registration for the 2011 Annual Meeting  
will be done online through Mid-America's web site.**

**Please visit [www.maoa.org](http://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 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 provide continuing medical education for physicians.**

**The American Academy of Orthopaedic Surgeons designates this educational activity for a maximum of 30 *AMA PRA Category 1 Credits™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.**

## OBJECTIVES

Objective 1: Describe outcomes and provide technical tips for complex primary and revision knee and hip arthroplasty.

Objective 2: Discuss evaluation and 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 update on the current stance of metal-on-metal total hip arthroplasty and hip resurfacing.

Objective 5: Review the current challenges and latest information regarding musculoskeletal tumor surgery and joint reconstruction alternatives.

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.

## 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

# Twenty-Ninth Annual Meeting

April 6-10, 2011

### TUESDAY, APRIL 5, 2011

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

### WEDNESDAY, APRIL 6, 2011

7:00 a.m. - 8:00 p.m.  
Registration

8:00 a.m. - 4:30 p.m.

**“Back to the Basics: Hip and Knee Arthroplasty”**  
Pre-meeting course jointly sponsored by Mid-America Orthopaedic Association and the International Congress for Joint Reconstruction (ICJR)

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.

#### OBJECTIVES

After completion of the course, the attendee will be able to:

1. Analyze patients with knee arthritis recognizing patterns of arthritis that may be amenable to partial or total knee replacement.
2. Analyze patients with hip arthritis, when surgical treatment is necessary and implant selection with special emphasis on bearing surface choice and role of hip resurfacing.
3. Understand the basic surgical principals of primary total hip and knee arthroplasty.
4. Review mechanisms of failure of partial and total hip and knee arthroplasty.
5. Discuss complications of knee and hip arthroplasty, how to diagnose them, handle them, and avoid them.
6. Recognize implant needs when approaching primary and revision hip and knee replacements.
7. Diagnose and treat periprosthetic hip and knee infections.

#### Course Chair:

Rafael J. Sierra, M.D.  
Rochester, MN

#### Course Faculty:

Keith R. Berend, M.D.  
New Albany, OH

Michael E. Berend, M.D.  
Mooreville, IN

Craig J. Della Valle, M.D.  
Chicago, IL

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

David W. Manning, M.D.  
Chicago, IL

Rafael J. Sierra, M.D.  
Rochester, MN

Scott M. Sporer, M.D.  
Winfield, IL

Bernard N. Stulberg, M.D.  
Cleveland, OH

Robert T. Trousdale, M.D.  
Rochester, MN

Fee: \$150. To register, visit the MAOA web site ([www.maoa.org](http://www.maoa.org)). Click on “2011 Annual Meeting”. 7 Category 1 CME credits will be offered for this one-day course. Breakfast, lunch, and two breaks included in registration fee. For more information, go to the ICJR ([www.icjr.net](http://www.icjr.net)) or MAOA ([www.maoa.org](http://www.maoa.org)) web sites.

4:00 p.m.

Board of Director Spouse Gathering

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: \$135/person*

*Attire: Casual*

Children's meal tickets are available for \$25/child (ages 3-11). Children's tickets may be purchased via the MAOA web site when registering for the meeting.

## **THURSDAY, APRIL 7, 2011**

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

**6:30 a.m. - 8:00 a.m.**  
**INSTRUCTIONAL COURSE I –**  
**Musculoskeletal Allograft Tissue Safety**

Continental breakfast will be available

Michael J. Joyce, M.D., Moderator  
Cleveland, OH

Scott A. Brubaker, CTBS  
Chief Policy Officer  
American Association of Tissue Banks  
McLean, VA

Historically, use of allograft tissue is successful and safe, and is common practice. However, when adverse events occur, what are expectations and what could be the root cause? Knowledge of tissue banking, and implications for, and expectations of the clinician are described which should lead to increased awareness and improved practice. Key components are: Informed Consent, Adverse Reactions, Oversight of Tissue Banking and Tissue Handling, Tissue Processing, Recalls, and Future Possibilities.

7:30 a.m. - 12:30 p.m.  
Exhibits/Posters Open (continental breakfast available from 7:30 a.m. - 9:00 a.m. in exhibit area)

### **FIRST PLENARY SESSION**

8:05 a.m. - 10:13 a.m.

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

Introductory Remarks  
**David G. Lewallen, M.D.**  
**Rochester, MN**  
**President, Mid-America Orthopaedic Association**

8:10 a.m. - 9:22 a.m.

1. Peripheral Nerve Blocks and Incidence of Postoperative Neurogenic Complaints and Pain Scores  
\*Randy R. Clark, M.D.  
Iowa City, IA  
John P. Albright, M.D.  
Iowa City, IA  
Richard C. Johnston, M.D.  
Iowa City, IA
2. Prospective Randomized Evaluation of the Need for Blood Transfusion During Primary Total Hip Arthroplasty with Use of a Bipolar Sealer  
\*Wael K. Barsoum, M.D.  
Cleveland, OH  
Alison K. Klika, M.S.  
Cleveland, OH  
Trevor G. Murray, M.D.  
Cleveland, OH  
Carlos A. Higuera, M.D.  
Cleveland, OH  
Ho H. Lee, M.D.  
Cleveland, OH  
Viktor E. Krebs, M.D.  
Cleveland, OH
3. A Randomized Controlled Trial of 240 Rotating Platform and Fixed Bearing TKA Shows No Difference in Function, Range of Motion, or Durability at Minimum Five-Year Follow-Up  
\*Michael Kalisvaart, M.D.  
Rochester, MN  
Mark W. Pagnano, M.D.  
Rochester, MN  
Robert T. Trousdale, M.D.  
Rochester, MN  
Michael J. Stuart, M.D.  
Rochester, MN  
Arlen D. Hanssen, M.D.  
Rochester, MN
4. Stress Examination of Supination External Rotation Ankle Fractures: Prospective Randomized Trial of Emergency Department Lateral Gravity Stress versus Manual Stress  
\*Clifford B. Jones, M.D.  
Grand Rapids, MI  
Debra L. Sietsema, Ph.D., R.N.  
Grand Rapids, MI  
Enesi Mumoh, M.D.  
Grand Rapids, MI

5. Incidence of Symptomatic Venous Thromboembolism After Knee Arthroscopy  
Joseph A. Morgan, M.D.  
Columbia, MO  
Aaron J. Krych, M.D.  
Rochester, MN  
Bruce A. Levy, M.D.  
Rochester, MN  
Michael J. Stuart, M.D.  
Rochester, MN  
\*Diane L. Dahm, M.D.  
Rochester, MN
  
6. Reverse Shoulder Arthroplasty for Instability After Anatomic Arthroplasty  
\*Matthew P. Abdel, M.D.  
Rochester, MN  
Steven J. Hattrup, M.D.  
Scottsdale, AZ  
John W. Sperling, M.D.  
Rochester, MN  
Robert H. Cofield, M.D.  
Rochester, MN  
Cole R. Kreofsky, B.S.  
Rochester, MN  
Joaquin Sanchez-Sotelo, M.D.  
Rochester, MN
  
7. Bacterial Contamination of Surgical Scrubs: A Nosocomial Infection Risk?  
\*Chad A. Krueger, M.D.  
Fort Sam Houston, TX  
Clinton D. Murray, M.D.  
Bethesda, MD  
Charles H. Guymon, B.S.  
Fort Sam Houston, TX  
Katrin Mende, Ph.D.  
Bethesda, MD  
Tad L. Gerlinger, M.D.  
Fort Sam Houston, TX

8. Is Smoking a Risk Factor for Complications After Elective Primary Total Knee or Total Hip Arthroplasty?  
\*Jasvinder Singh, M.D.  
Birmingham, AL  
Thomas Houston, M.D.  
Boston, MA  
Brent A. Ponce, M.D.  
Birmingham, AL  
Grady E. Maddox, M.D.  
Birmingham, AL  
Michael Bishop, M.D.  
Palo Alto, CA  
Joshua Richman, M.D.  
Palo Alto, CA  
Elizabeth Campagna  
Denver, CO  
William Henderson, M.D.  
Denver, CO  
Mary Hawn, M.D.  
Birmingham, AL

9:23 a.m. - 9:53 a.m.

**CLASSICS IN ORTHOPAEDICS**  
**“Four Decades of Musculoskeletal Oncology: Advances and Challenges”**  
**Franklin H. Sim, M.D.**  
**Rochester, MN**

10:04 a.m. - 10:30 a.m.

**First Business Meeting**  
(MAOA Members Only)

10:04 a.m. - 11:00 a.m.

Coffee Break in Exhibit Area

11:00 a.m. - 12:45 p.m.

Breakout Sessions #1, #2, #3, #4, and #5 to run concurrently

**BREAKOUT SESSION #1**  
**ADULT KNEE I**

**11:00 a.m. - 12:45 p.m., Thursday, April 7, 2011**

9. Hybrid Total Knee Arthroplasty: A 10-16 Year Follow-Up Study  
\*Jeffrey R. McLaughlin, M.D.  
Oshkosh, WI
  
10. Early Failure of Cementless Porous Tantalum Monoblock Tibial Components is Likely Related to Patient Height, Weight, and Gender  
R. Michael Meneghini, M.D.  
Indianapolis, IN  
\*Brian C. de Beaubien, M.D.  
Saginaw, MI

11. Is Mid-Term Follow-Up Surveillance of Total Knee Arthroplasty Patients Necessary?  
\*James A. Keeney, M.D.  
St. Louis, MO  
Bradley Ellison, M.D.  
St. Louis, MO  
Kathleen Marshall, B.S.  
St. Louis, MO  
Emily Marshall  
St. Louis, MO  
Anne Fournie  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO  
John C. Clohisy, M.D.  
St. Louis, MO
12. Prospective Randomized Evaluation of a Collagen/Thrombin and Autologous Platelet Hemostatic Agent During Total Knee Arthroplasty  
\*Michael R. Bloomfield, M.D.  
Cleveland, OH  
Robert M. Molloy, M.D.  
Cleveland, OH  
Diren Arsoy, M.D.  
Cleveland, OH  
Alison K. Klika, M.S.  
Cleveland, OH  
Mark I. Friomson, M.D.  
Cleveland, OH  
Viktor E. Krebs, M.D.  
Cleveland, OH  
Wael K. Barsoum, M.D.  
Cleveland, OH
13. Changes in Capsule Gene Expression Over Time in a Rabbit Knee Model of Joint Contracture  
Matthew P. Abdel, M.D.  
Rochester, MN  
\*Mark E. Morrey, M.D.  
Rochester, MN  
Kai-Nan An, Ph.D.  
Rochester, MN  
Scott P. Steinmann, M.D.  
Rochester, MN  
Bernard F. Morrey, M.D.  
Rochester, MN  
Joaquin Sanchez-Sotelo, M.D.  
Rochester, MN
14. Comparison of Coronal Alignment Using Conventional versus Patient Specific Instrumentation  
Ryan M. Nunley, M.D.  
St. Louis, MO  
Stephen M. Howell, M.D.  
Sacramento, CA  
Jinjun Zhu, M.D.  
St. Louis, MO  
\*Bradley S. Ellison, M.D.  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO
15. Knee Arthroplasty Rehabilitation: Comparing Conventional Therapy to a Music Rehabilitation Video  
\*David A. Fisher, M.D.  
Indianapolis, IN  
Edward J. Hellman, M.D.  
Indianapolis, IN  
Sanford S. Kunkel, M.D.  
Indianapolis, IN  
Joseph C. Randolph, M.D.  
Indianapolis, IN  
Deborah E. Robinson, P.A.  
Indianapolis, IN
16. Template-Directed Instrumentation in Total Knee Arthroplasty: A Cost Savings Analysis  
\*Brett R. Levine, M.D.  
Chicago, IL
17. Which Primary Total Knee Replacement Patients Experience the Greatest Increase in Quality of Life?  
\*Joseph F. Styron, Ph.D.  
Cleveland, OH  
Mendel E. Singer, Ph.D.  
Cleveland, OH  
Wael K. Barsoum, M.D.  
Cleveland, OH
18. Prospective, Randomized Evaluation of Multimodal Pain Management in Less Invasive TKA  
\*David W. Manning, M.D.  
Chicago, IL  
Eric Wagner, B.S.  
Chicago, IL  
Erin E. Fleck, M.D.  
Chicago, IL

19. Medial Unicompartmental Knee Arthroplasty in Patients Younger than 55  
 \*Debdut Biswas, M.D.  
 Chicago, IL  
 Geoffrey S. Van Thiel, M.D.  
 Chicago, IL  
 Richard A. Berger, M.D.  
 Chicago, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL
- BREAKOUT SESSION #2**  
**HAND**  
**11:00 a.m. - 12:30 p.m., Thursday, April 7, 2011**
20. Acute Boutonniere Deformity – Recreating a Fresh Cadaveric Model  
 Hasan E. Baydoun, M.D.  
 Chicago, IL  
 \*Luis C. Grau, B.S.  
 Chicago, IL  
 Michael C. Weisburger, M.D.  
 Chicago, IL  
 Mark H. Gonzalez, M.D.  
 Chicago, IL
21. Effects of Supplemental Oxygen and Hyperbaric Oxygen on Tendon Healing in a Rat Model  
 \*Ryan N. Sieg, M.D.  
 El Paso, TX  
 E'Stephan J. Garcia, M.D.  
 El Paso, TX  
 Andrew J. Schoenfeld, M.D.  
 El Paso, TX  
 Brett D. Owens, M.D.  
 West Point, NY
22. Skeletal Muscle and Bone Marrow Derived Stromal Cells: A Comparison of Tenocyte Differentiation Capabilities  
 \*Adam A. Sassoon, M.D.  
 Rochester, MN  
 Yu Long Sun, Ph.D.  
 Rochester, MN  
 Chunfeng Zhao, M.D.  
 Rochester, MN  
 Jin Jen, M.D.  
 Rochester, MN  
 Peter C. Amadio, M.D.  
 Rochester, MN
23. Three-Dimensional Analysis of the Proximal Articulating Surfaces of the Lunate and Capitate  
 Shafic A. Sraj, M.D.  
 Cleveland, OH  
 Harry A. Hoyen, M.D.  
 Cleveland, OH  
 \*Peter J. Evans, M.D., Ph.D., FRCS  
 Cleveland, OH
24. Biomechanical Comparison of Proximal Radius Locking Plates  
 Daniel Penello, M.D.  
 Cleveland, OH  
 \*Jeffrey N. Lawton, M.D.  
 Ann Arbor, MI  
 Peter J. Evans, M.D., Ph.D., FRCS  
 Cleveland, OH  
 Paul Postak, Ph.D.  
 Cleveland, OH  
 A. Seth Greenwald, Ph.D.  
 Cleveland, OH
25. Lateral Tilt Wrist Radiograph Using the Contralateral Hand to Position the Wrist Following Volar Plating of Distal Radius Fractures  
 \*Kristofer S. Matullo, M.D.  
 Rochester, MN  
 David G. Dennison, M.D.  
 Rochester, MN
26. The Effect of Early versus Delayed Range of Motion in the Outcome of Patients with Distal Radius Fractures Treated with Volar Locking Plates: A Prospective Randomized Trial  
 \*David G. Dennison, M.D.  
 Rochester, MN  
 Charlene L. Blanchard  
 Rochester, MN  
 Bassem T. Elhassan, M.D.  
 Rochester, MN  
 Alexander Y. Shin, M.D.  
 Rochester, MN

27. Functional Outcomes of Ulnar Head Endoprosthesis Implantation After Degenerative Joint Disease or Resection Arthroplasty of the Distal Radioulnar Joint  
Sanjeev Kakar, M.D.  
Rochester, MN  
\*Russell P. Swann, M.D.  
Rochester, MN  
Kevin I. Perry, M.D.  
Rochester, MN  
Alexander Y. Shin, M.D.  
Rochester, MN  
Steven L. Moran, M.D.  
Rochester, MN
28. Biomechanical Comparison of Three Fixation Techniques Used for Four-Corner Arthrodesis  
Jirachart Kraissarin, M.D.  
Rochester, MN  
\*David G. Dennison, M.D.  
Rochester, MN  
Lawrence J. Berglund, B.S.  
Rochester, MN  
Kai-Nan An, Ph.D.  
Rochester, MN  
Alexander Y. Shin, M.D.  
Rochester, MN
29. Concomitant Spinal Cord Injuries in Adult Patients with Traumatic Brachial Plexus Injuries  
\*Peter C. Rhee, D.O.  
Rochester, MN  
Elena Pirola, M.D.  
Rochester, MN  
Marie-Noelle Hebert-Blouin, M.D.  
Rochester, MN  
Robert J. Spinner, M.D.  
Rochester, MN  
Allen T. Bishop, M.D.  
Rochester, MN  
Alexander Y. Shin, M.D.  
Rochester, MN

## BREAKOUT SESSION #3

### SPORTS

11:00 a.m. - 12:30 p.m., Thursday, April 7, 2011

30. The Efficacy of Combined Cryotherapy and Compression Compared to Cryotherapy Alone Following Anterior Cruciate Ligament Reconstruction  
Brian R. Waterman, M.D.  
El Paso, TX  
John J. Walker, PAC, DSc  
El Paso, TX  
Michael Shortt, PAC, DSc  
El Paso, TX  
Chad Swaims, PAC, DSc  
El Paso, TX  
Michael S. Todd, D.O.  
El Paso, TX  
M. Shaun Machen, M.D.  
El Paso, TX  
Brett D. Owens, M.D.  
West Point, NY  
(Leah M. Ochoa, M.D., El Paso, TX to present)
31. Surgical Management of Femoral Tunnel Malposition in ACL Revision Reconstruction: Results from the MARS Group  
Michael J. Stuart, M.D.  
Rochester, MN  
\*Joseph A. Morgan, M.D.  
Columbia, MO  
Diane L. Dahm, M.D.  
Rochester, MN  
Bruce A. Levy, M.D.  
Rochester, MN
32. Anteromedial Femoral Notch Ridging in a Normal Population  
\*Joshua S. Everhart, B.S.  
Columbus, OH  
David C. Flanigan, M.D.  
Columbus, OH  
Ajit W. Chaudhari, Ph.D.  
Columbus, OH
33. Effects of Serial Sectioning and Repair of Radial Tears in the Lateral Meniscus  
\*Samuel McArthur, M.D.  
Chicago, IL  
Geoffrey S. Van Thiel, M.D.  
Chicago, IL  
Gabrielle Ode, B.S.  
Chicago, IL  
Jim Kercher, M.D.  
Chicago, IL  
Brett R. Levine, M.D.  
Chicago, IL  
Brian J. Cole, M.D.  
Chicago, IL

34. Biomechanical Evaluation of Meniscal Repairs in a Shear Force Scenario  
 \*William K. Kesto, M.D.  
 Detroit, MI  
 Amanda Esquivel, Ph.D.  
 Southfield, MI  
 David C. Markel, M.D.  
 Southfield, MI
35. Isolated Medial Patellofemoral Ligament Repair for Recurrent Patellar Dislocation  
 \*Christopher L. Camp, 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  
 Michael J. Stuart, M.D.  
 Rochester, MN
36. Youth Baseball Pitchers: How Well Do Coaches Follow the USA Baseball Medical and Safety Advisory Committee Pitching Guidelines?  
 \*Joseph J. Fazalare, M.D.  
 Bridgeport, WV  
 Justin Classie, M.D.  
 Columbus, OH  
 Angela Pedroza, MPH  
 Columbus, OH  
 Thomas Best, M.D.  
 Columbus, OH  
 Christopher C. Kaeding, M.D.  
 Columbus, OH
37. Fatty Infiltration of the Semitendinosus Muscle Following Tendon Resection: An Experimental Study in Rabbits  
 \*Jason D. Vourazeris, M.D.  
 Dayton, OH  
 Matthew W. Lawless, M.D.  
 Dayton, OH  
 Ronald J. Markert, Ph.D.  
 Dayton, OH
38. Complications, Re-Operations, and Failures After Autologous Chondrocyte Implantation  
 \*Joshua D. Harris, M.D.  
 Columbus, OH  
 Aneet Toor, M.D.  
 Columbus, OH  
 Robert A. Siston, Ph.D.  
 Columbus, OH  
 David C. Flanigan, M.D.  
 Columbus, OH
39. Outcomes Following Conventional and 3D Navigational Open-Wedge High Tibial Osteotomies  
 \*Greg L. Scallon, B.S.  
 Iowa City, IA  
 John P. Albright, M.D.  
 Iowa City, IA  
 Annunziato Amendola, M.D.  
 Iowa City, IA  
 Brian R. Wolf, M.D.  
 Iowa City, IA  
 Chloe Mellecker, M.S.  
 Iowa City, IA  
 Caitlin Wooldridge  
 Iowa City, IA

## BREAKOUT SESSION #4

### ADULT HIP

11:00 a.m. - 12:45 p.m., Thursday, April 7, 2011

40. Early Discharge Protocol After Joint Replacement Does Not Increase Readmission Rates  
 Joan Henely, R.N., C.N.S.  
 Rochester, MN  
 Mark W. Pagnano, M.D.  
 Rochester, MN  
 \*Rafael J. Sierra, M.D.  
 Rochester, MN
41. Serum and Synovial Fluid Tests for Periprosthetic Infection in Patients with Inflammatory Arthritis  
 \*Cara A. Cipriano, M.D.  
 Chicago, IL  
 Nicholas M. Brown, M.S.  
 Chicago, IL  
 Andrew Michael, M.D.  
 Chicago, IL  
 Mario A. Moric, M.S.  
 Chicago, IL  
 Scott M. Sporer, M.D.  
 Winfield, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL
42. Anemia in Arthroplasty Patients: Correlation with Transfusion Risk, Cost, and Readmission  
 \*Christopher J. Utz, M.D.  
 Cleveland, OH  
 Mark I. Froimson, M.D.  
 Cleveland, OH  
 San Miguel Benitez-Santana, R.N.  
 Cleveland, OH  
 Ajay Kumar, M.D.  
 Cleveland, OH  
 Bernard N. Stulberg, M.D.  
 Cleveland, OH

43. Effects of Surface Area and Volume on Mechanical Properties and Elution Characteristics of Hydroxyapatite Cement Impregnated with Tobramycin and Vancomycin Constructs  
\*James L. Womack, M.D.  
Wichita, KS  
David A. McQueen, M.D.  
Wichita, KS  
Alexander C. M. Chong, MSAE, MSME  
Wichita, KS  
Richard E. Duey, M.D.  
Wichita, KS  
Zheng Song, M.S.  
Wichita, KS  
Paul H. Wooley, Ph.D.  
Wichita, KS
44. Primary Cementless Acetabular Fixation at Minimum 20-Year Follow-Up: Are We Improving Compared to Cement Fixation?  
\*Michael Steff, 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
45. Cementless THA for the Treatment of Osteonecrosis at Ten Year Follow-Up: Have We Improved?  
\*Nicholas Bedard, B.S.  
Iowa City, IA  
John J. Callaghan, M.D.  
Iowa City, IA  
Steve S. Liu, M.D.  
Iowa City, IA
46. Total Hip Arthroplasty in Young Patients: Do We Improve Activity Profiles?  
\*Margaret G. Kuhn, M.D.  
St. Louis, MO  
Marcie Harris Hayes  
St. Louis, MO  
Gail Pashos, B.S.  
St. Louis, MO  
John C. Clohisy, M.D.  
St. Louis, MO
47. Postoperative Activity Level in the Less than 22-Year-Old Total Hip Arthroplasty Patient  
\*Creighton C. Tubbs, M.D.  
Tacoma, WA  
Eghosa A. Olomu, B.S.  
Cleveland, OH  
Alison K. Klika, M.S.  
Cleveland, OH  
Wael K. Barsoum, M.D.  
Cleveland, OH
48. Alumina Ceramic Bearings for Total Hip Arthroplasty: Minimum 10-Year Follow-Up  
\*William N. Capello, M.D.  
Indianapolis, IN  
James A. D'Antonio, M.D.  
Moon Township, PA  
Peter M. Bonutti, M.D.  
Effingham, IL  
Marybeth Naughton  
Mahwah, NJ
49. Precision THA Using Modular Neck and Cost Effective CR Imaging  
\*Brad L. Penenberg, M.D.  
Beverly Hills, CA  
Seth Boling, M.D.  
Beverly Hills, CA  
Michelle Riley, P.A.  
Beverly Hills, CA
50. Reliability of a Radiographic Total Hip Arthroplasty Classification System  
Nirav Shah, M.D.  
St. Louis, MO  
\*James A. Keeney, M.D.  
St. Louis, MO  
Ryan M. Nunley, M.D.  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO  
Jay R. Lieberman, M.D.  
Farmington, CT  
Karen Steger-May  
St. Louis, MO  
John C. Clohisy, M.D.  
St. Louis, MO

**BREAKOUT SESSION #5**

**SPINE/TUMOR**

**11:00 a.m. - 12:35 p.m., Thursday, April 7, 2011**

51. Outpatient Microscopic Lumbar Discectomy Using a Fixed Tubular Retractor: 12-Month Results  
\*Raymond J. Gardocki, M.D.  
Memphis, TN
52. Documentation of Outcomes for Sacroiliac Joint Fusion: Does Prior Spinal Fusion Influence the Outcome?  
\*Nathaniel J. Slinkard, M.D.  
Minneapolis, MN  
Marc F. Swionkowski, M.D.  
Minneapolis, MN
53. Lateral Lumbar Fusion (LLIF) versus Standard Fusion Approaches: Analysis of Segmental Lordosis Change  
Jonathan N. Sembrano, M.D.  
Minneapolis, MN  
\*Ryan D. Horazdovsky, M.D.  
Minneapolis, MN  
Amit K. Sharma, M.D.  
Minneapolis, MN  
Edward R. G. Santos, M.D.  
Minneapolis, MN  
David W. Polly, Jr., M.D.  
Minneapolis, MN
54. Optimizing Iliac Screws: An Image Guided Biomechanical Study on Trajectory and Size  
\*Benjamin Mueller, M.D.  
Minneapolis, MN  
Edward R. G. Santos, M.D.  
Minneapolis, MN  
Jonathan N. Sembrano, M.D.  
Minneapolis, MN  
David W. Polly, Jr., M.D.  
Minneapolis, MN
55. Indirect Decompression of Lumbar Nerve Roots with Percutaneous Pedicle Screws  
\*Matthew C. Mai, M.D.  
Springfield, IL  
Ryan T. Beck, M.D.  
Springfield, IL  
Nittin Kukkar, M.D.  
Springfield, IL  
Per Freitag, M.D.  
Springfield, IL
56. Characterization of Risk Factors for Complications Following Spinal Surgery: A Comprehensive Analysis Using the NSQIP Cohort  
\*Leah M. Ochoa, M.D.  
El Paso, TX  
Andrew J. Schoenfeld, M.D.  
El Paso, TX  
Julia O. Bader, Ph.D.  
El Paso, TX  
Philip J. Belmont, Jr., M.D.  
El Paso, TX
57. Complication Rates Utilizing rhBMP-2 for Instrumented Lumbar Posterolateral Fusions  
Clifford B. Jones, M.D.  
Grand Rapids, MI  
\*Martin F. Hoffmann, M.D.  
Grand Rapids, MI  
Debra L. Sietsema, Ph.D., R.N.  
Grand Rapids, MI
58. Comparison of Ultrasound Fusion and Computed Tomography Guided Biopsy in Musculoskeletal Neoplasia  
\*Jad G. Khalil, M.D.  
Detroit, MI  
Michael P. Mott, M.D.  
Detroit, MI  
Theodore W. Parsons, M.D.  
Detroit, MI  
Trevor R. Banka, M.D.  
Detroit, MI  
Marnix T. Van Holsbeeck, M.D.  
Detroit, MI
59. Reliability of Recist, Choi, and Pet-CT for Assessing Soft Tissue Sarcoma Treatment Response  
\*Patrick W. O'Donnell, M.D.  
Minneapolis, MN  
Jerry W. Froelich, M.D.  
Minneapolis, MN  
Thiruvenkatasam Dhurairaj, M.D.  
Minneapolis, MN  
Todd E. DeFor, M.S.  
Minneapolis, MN  
Edward Y. Cheng, M.D.  
Minneapolis, MN

\*Denotes Speaker

60. Prevalence of MSSA and MRSA Colonization in Orthopedic Oncology Patients

\*Courtney E. Sherman, M.D.  
Rochester, MN  
Lori L. A. Pierce, R.N.  
Rochester, MN  
Peter S. Rose, M.D.  
Rochester, MN

61. Shortening and Plating of Critical Bone Defects of the Humerus Results in Better Torsional Strength in Pathological Humeral Fractures

\*Daniel M. Myer, M.D.  
Akron, OH  
Scott D. Weiner, M.D.  
Akron, OH  
Donald A. Noe, B.S.  
Akron, OH  
Leann M. Speering, M.S.  
Akron, OH  
Michael J. Askew, Ph.D.  
Akron, OH

Lunch on your own

1:00 p.m. - 3:00 p.m.  
Multimedia Education

2:00 p.m.  
Mid-America Tennis Tournament  
(see page 42)

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

## **FRIDAY, APRIL 8, 2011**

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

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

### **INSTRUCTIONAL COURSE II – Current Concepts in the Treatment of Fractures and Dislocations in the Hand and Wrist**

Continental breakfast will be available

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

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

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

A select group of hand surgeons from the University of Michigan, the Mayo Clinic, and Hand Surgery Specialists, Inc. will discuss the operative and nonoperative treatment of hand and wrist injuries, including fractures and dislocations. Surgical indications, options, and rehabilitation techniques will be reviewed with attention to current techniques, approaches, tools, and advances. The panel will discuss complications and their management as no treatment is flawless.

Surgeons will highlight operative approaches with surgical pearls for the general orthopedic surgeon and orthopedic resident. Pertinent current research, both clinical and basic science, will be reviewed to keep the practicing surgeon up to date. The rehabilitation interventions to optimize recovery from splint options, motion techniques, and modalities available will be discussed.

Case examples will be used to keep the discussion frank and lively. Literature references and a compact summary of salient articles will be provided for home study.

7:30 a.m. - 12:30 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. - 10:28 a.m.

8:00 a.m. - 8:05 a.m.  
Assemble/Announcements

8:05 a.m. - 8:21 a.m.

62. Combined Arthroscopy and Periacetabular Osteotomy: Intra-Articular Disease and Impact on Treatment  
Ira Zaltz, M.D.  
Royal Oak, MI  
Jeffrey J. Nepple, M.D.  
St. Louis, MO  
Gail Pashoa, B.S.  
St. Louis, MO  
Lauren St. John  
St. Louis, MO  
Geneva Baca  
St. Louis, MO  
\*John C. Clohisy, M.D.  
St. Louis, MO

63. Update on the Prevalence of Magnetic Resonance Imaging Changes in the Hip Among Asymptomatic Adolescent Athletes  
\*Brandon J. Yuan, M.D.  
Rochester, MN  
Robert B. Bartelt, M.D.  
Rochester, MN  
Bruce A. Levy, M.D.  
Rochester, MN  
Jeffery R. Bond, M.D.  
Rochester, MN  
Robert T. Trousdale, M.D.  
Rochester, MN  
Rafael J. Sierra, M.D.  
Rochester, MN

8:22 a.m. - 8:52 a.m.

**PRESIDENTIAL GUEST SPEAKER**  
**“Modern Hip Joint Preservation Surgery: From Anatomy to Comprehension, From Comprehension to Advanced Concepts“**  
**Professor Reinhold Ganz**  
**Bern, Switzerland**

8:58 a.m. - 9:03 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

9:04 a.m. - 9:32 a.m.

64. Edward D. Henderson, M.D. Award Presentation  
 65. E.W. Johnson, Jr., M.D. Award Presentation  
 66. Carl L. Nelson, M.D. Award Presentation  
 67. Dallas B. Phemister, M.D. Award Presentation

9:32 a.m. - 9:37 a.m.

**Introduction of Recipients of Traveling Fellowship, Multipurpose Resident Grants, and Education Grants**

9:38 a.m. - 9:43 a.m.

Traveling Fellowship Presentation

9:47 a.m. - 9:57 a.m.

OREF Presentation

9:58 a.m. - 10:28 a.m.

**CLASSICS IN ORTHOPAEDICS**  
**“Early Detection and Treatment of Hip Disease“**  
**Joseph C. McCarthy, M.D.**  
**Newton, MA**

10:28 a.m. - 11:00 a.m.

Poster viewing—presenters will be available.  
 CME credit will be offered.  
 (Poster Area)

10:28 a.m. - 11:00 a.m.

Coffee Break in Exhibit Area

11:00 a.m. - 12:30 p.m.

Breakout Sessions #6, #7, #8, #9, and #10 to run concurrently

## BREAKOUT SESSION #6

### PEDIATRICS

11:00 a.m. - 12:30 p.m., Friday, April 8, 2011

68. Risk Factors for Infections Following Pediatric Spine Fusion Surgery  
\*Anton Y. Jorgensen, M.D.  
El Paso, TX  
Ronda Cordill, R.N.  
Spokane, WA  
Bryan J. Tompkins, M.D.  
Spokane, WA  
Paul M. Caskey, M.D.  
Spokane, WA
69. Scoliosis in Patients Undergoing Operative Repair of Pectus Excavatum Deformity  
Shawn St. Peter, M.D.  
Kansas City, MO  
\*Joshua Vaughn  
Kansas City, MO  
Nigel J. Price, M.D.  
Kansas City, MO
70. Scoliosis in Patients Undergoing Operative Repair of Pectus Carinatum Deformity  
Shawn St. Peter, M.D.  
Kansas City, MO  
Joshua Vaughn  
Kansas City, MO  
\*Nigel J. Price, M.D.  
Kansas City, MO
71. The Value of a Screening Hip Ultrasound in Children Presenting with Clubfoot  
\*Brian J. Larkin, M.D.  
Detroit, MI  
Stephanie J. Muh, M.D.  
Detroit, MI  
Stephen B. Sundberg, M.D.  
St. Paul, MN
72. Fibrous Tissue of Idiopathic Clubfeet: Analyses by Gene Expression, Histology, and Immunohistochemistry  
\*Tyson T. Schrickel, M.D.  
Akron, OH  
Robin Jacquet, M.S.  
Akron, OH  
William Landis, Ph.D.  
Akron, OH  
Dimitris Agamanolis, M.D.  
Akron, OH  
Christopher Klunk, M.D.  
Akron, OH  
Mark J. Adamczyk, M.D.  
Akron, OH  
Melanie Morscher, B.S.  
Akron, OH  
Dennis S. Weiner, M.D.  
Akron, OH
73. Short-Leg Casting for Pediatric Tibia Fractures with Equivalent Outcomes as Long-Leg Casting  
\*Smiresh S. Shah, M.D.  
Chicago, IL  
Prasad V. Gourineni, M.D.  
Chicago, IL
74. The Effects of Hypothyroidism on the Proximal Femoral Physis in Miniature Swine  
\*Jason C. Tank, M.D.  
Akron, OH  
Robin Jacquet, M.S.  
Akron, OH  
Elizabeth Lowder, B.S.  
Akron, OH  
Dylan Childs, M.D.  
Akron, OH  
William Landis, Ph.D.  
Akron, OH  
Todd Ritzman, M.D.  
Akron, OH  
Walter Horne, Ph.D.  
Akron, OH  
Melanie Morscher, B.S.  
Akron, OH  
Dennis S. Weiner, M.D.  
Akron, OH
75. Meniscus Tears in the Young Athlete: Results of Arthroscopic Repair  
\*James E. Moravek, M.D.  
Ann Arbor, MI  
Kelly L. Vanderhave, M.D.  
Ann Arbor, MI  
Jon K. Sekiya, M.D.  
Ann Arbor, MI  
Edward M. Wojtyls, M.D.  
Ann Arbor, MI

\*Denotes Speaker

76. All-Epiphyseal ACL Reconstruction Improves Knee Stability: An In Vitro Study

\*Matthew Stonestreet, M.D.  
Akron, OH  
Kerwyn C. Jones, M.D.  
Akron, OH  
Marcus Kirkpatrick, M.D.  
Akron, OH  
Kushal Shah, B.S.  
Akron, OH  
Caroline Frampton  
Akron, OH  
Melanie Morscher, B.S.  
Akron, OH  
John Elias, Ph.D.  
Akron, OH

**BREAKOUT SESSION #7**

**TRAUMA I**

**11:00 a.m. - 12:30 p.m., Friday, April 8, 2011**

77. Distal Locking in Femoral Nailing of 52 Patients without X-ray Guidance – A Multicenter Study

\*Ramon B. Gustilo, M.D.  
Makata, Metro Manila, Philippines  
Arturo C. Canete, M.D.  
Makata, Metro Manila, Philippines  
Godofredo Villarama Dungca, III, M.D.  
Makata, Metro Manila, Philippines

78. Evaluation of Skeletal versus Cutaneous Femoral Traction for Diaphyseal Femur Fractures

\*Jesse L. Even, M.D.  
Nashville, TN  
Justin E. Richards, M.D.  
Nashville, TN  
Colin G. Crosby, M.D.  
Nashville, TN  
Philip J. Kregor, M.D.  
Nashville, TN  
Erika J. Mitchell, M.D.  
Nashville, TN  
Marc Tressler, M.D.  
Nashville, TN  
William Obremeskey, M.D.  
Nashville, TN

79. Assessment of Periprosthetic Fracture Risk with Short and Long Cephalomedullary Nails – A Biomechanical Study

J. Christopher Gayton, M.D.  
Dayton, OH  
\*Mark H. Stouffer, M.D.  
Dayton, OH  
Indresh Venkatarayappa, M.D.  
Dayton, OH  
Alyssa George, M.S.  
Dayton, OH  
Michael J. Prayson, M.D.  
Dayton, OH

80. The Fate of Patients with a “Surprise” Positive Culture After Nonunion Surgery

Paul Tornetta, III, M.D.  
Boston, MA  
Dana Olszewski, M.D.  
Boston, MA  
Clifford B. Jones, M.D.  
Grand Rapids, MI  
\*Martin F. Hoffmann, M.D.  
Grand Rapids, MI  
Debra L. Sietsema, Ph.D., R.N.  
Grand Rapids, MI  
Charlton Stucken, M.D.  
Boston, MA  
William R. Creevy, M.D.  
Boston, MA  
William M. Ricci, M.D.  
St. Louis, MO  
Michael J. Gardner, M.D.  
St. Louis, MO  
Phillipp Streubel, M.D.  
Boston, MA

81. Nonunion After Open Fractures: Are BMPs the Solution?

\*Charles S. Grimshaw, M.D.  
St. Louis, MO  
Lisa K. Cannada, M.D.  
St. Louis, MO  
J. Tracy Watson, M.D.  
St. Louis, MO

82. Mesenchymal Stem Cells (MSCs) Facilitate Fracture Repair in an Alcohol-Induced Impaired Healing Model

\*Thomas S. Obermeyer, M.D.  
Maywood, IL  
Ryan Himes  
Maywood, IL  
Kristen Laing  
Maywood, IL  
Stuart Stock, Ph.D.  
Chicago, IL  
David Yonick, M.D.  
Maywood, IL  
Michael D. Stover, M.D.  
Maywood, IL  
John Callaci, Ph.D.  
Maywood, IL

83. Immediate Full Weightbearing After Stabilization of Anterior Column Acetabulum Fractures

\*Namdar Kazemi, M.D.  
Cincinnati, OH  
Michael T. Archdeacon, M.D.  
Cincinnati, OH

84. Open Reduction and Internal Fixation of Clavicle Nonunions with Demineralized Bone Matrix

\*Michael D. Riggenbach, M.D.  
Columbus, OH  
Grant L. Jones, M.D.  
Columbus, OH  
Julie Y. Bishop, M.D.  
Columbus, OH

85. The Value of Washers in Internal Fixation of Femoral Neck Fractures with Cancellous Screws: A Biomechanical Evaluation

\*Michael P. Zlowodzki, M.D.  
Minneapolis, MN  
Coen A. Wijdicks, M.D.  
Minneapolis, MN  
Bryan M. Armitage, M.D.  
Minneapolis, MN  
Peter A. Cole, M.D.  
Minneapolis, MN

86. Does Pain Correlate with Patient Based Functional Outcome Scores After Pelvic and Acetabular Fractures?

Clifford B. Jones, M.D.  
Grand Rapids, MI  
\*Debra L. Sietsema, Ph.D., R.N.  
Grand Rapids, MI  
Paul Tornetta, III, M.D.  
Boston, MA  
Gillian L. Sembler Soles, M.D.  
Boston, MA

## **BREAKOUT SESSION #8 SHOULDER**

**11:00 a.m. - 12:30 p.m., Friday, April 8, 2011**

87. Efficacy of Preoperative Home Use of 2% Chlorhexidine Cloth Prior to Shoulder Surgery

\*Michael R. Murray M.D.  
Chicago, IL  
Matthew Saltzman, M.D.  
Chicago, IL  
Michael A. Terry, M.D.  
Chicago, IL  
Stephen M. Gryzlo, M.D.  
Chicago, IL  
Chase Woodward, B.S.  
Chicago, IL  
Gordon W. Nuber, M.D.  
Chicago, IL

88. Position and Duration of Immobilization After Primary Anterior Shoulder Dislocation. A Systematic Review and Meta-Analysis of the Literature

\*William H. Paterson, M.D.  
Memphis, TN  
Thomas W. Throckmorton, M.D.  
Memphis, TN  
Frederick M. Azar, M.D.  
Memphis, TN  
John E. Kuhn, M.D.  
Nashville, TN

89. Acromioplasty in the State of Wisconsin from 2003-2009

\*Robert H. Ablove, M.D.  
Madison, WI  
Lina Jacques, B.S.  
Madison, WI  
Jacqueline A. Geissler, M.D.  
Madison, WI

90. Relationship Between Rotator Cuff Tear Type and Acromial Impingement  
 Brent A. Ponce, M.D.  
 Birmingham, AL  
 \*Trent J. Wilson, M.D.  
 Birmingham, AL  
 Gerald McGwin, Ph.D.  
 Birmingham, AL  
 Gregory N. Drake, D.O.  
 Houston, TX  
 George J. Trappey, IV, M.D.  
 Houston, TX  
 Gary M. Gartsman, M.D.  
 Houston, TX
91. Predictors of Pain and Function in Symptomatic, Atraumatic Full-Thickness Rotator Cuff Tears  
 Joshua D. Harris, M.D.  
 Columbus, OH  
 Multicenter Orthopaedic Outcomes Network (MOON)  
 Angela D. Pedroza, MPH  
 Columbus, OH  
 \*Grant L. Jones, M.D.  
 Columbus, OH
92. Rabbit Supraspinatus Motor Endplates are Unaffected by a Rotator Cuff Tear  
 \*J. Christopher Gayton, M.D.  
 Dayton, OH  
 Mark D. Stouffer, M.D.  
 Dayton, OH  
 Mark M. Rich, M.D.  
 Dayton, OH  
 Gregory P. Boivin, M.D.  
 Dayton, OH  
 L. Joseph Rubino, M.D.  
 Dayton, OH
93. Dynamic, In Vivo Glenohumeral Joint Mechanics After Rotator Cuff Repair: Long-Term Follow-Up of Repaired and Contralateral Shoulders  
 \*Patricia A. Kolowich, M.D.  
 Detroit, MI  
 Terrence R. Lock, M.D.  
 Detroit, MI  
 Kristin Ciarelli, M.S.  
 Detroit, MI  
 Vasilios Moutzourous, M.D.  
 Detroit, MI  
 Michael J. Bey, Ph.D.  
 Detroit, MI
94. Humeral Head Abrasion: An Association with Failed SLAP Repairs  
 \*Ian R. Byram, M.D.  
 Nashville, TN  
 Warren R. Dunn, M.D.  
 Nashville, TN  
 John E. Kuhn, M.D.  
 Nashville, TN
95. Suture Capsulorrhaphy versus Capsulolabral Advancement for Shoulder Instability  
 \*Andrew D. Kersten, M.D.  
 Royal Oak, MI  
 Meredith H. Fabing, D.O.  
 Charlotte, MI  
 Ross J. Cooper  
 Royal Oak, MI  
 Kevin C. Baker, M.S.  
 Royal Oak, MI  
 Kyle Anderson, M.D.  
 Royal Oak, MI
96. Comparison of Various Imaging Techniques to Quantify Glenoid Bone Loss in Shoulder Instability  
 \*Michael A. Rerko, M.D.  
 Columbus, OH  
 Daniel Vade BonCoeur, M.D.  
 Columbus, OH  
 Grant L. Jones, M.D.  
 Columbus, OH  
 Christopher Donaldson, M.D.  
 Columbus, OH  
 Julie Y. Bishop, M.D.  
 Columbus, OH

## **BREAKOUT SESSION #9**

### **ADULT KNEE II**

**11:00 a.m. - 12:30 p.m., Friday, April 8, 2011**

97. Postoperative Morbidity and Mortality Associated with Primary Total Knee and Unicompartmental Knee Arthroplasty  
 \*Nicholas M. Brown, B.S.  
 Chicago, IL  
 Neil P. Sheth, M.D.  
 Chicago, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL  
 Mario Moric, M.S.  
 Chicago, IL  
 Keith R. Berend, M.D.  
 New Albany, OH  
 Michael E. Berend, M.D.  
 Mooresville, IN

98. Total Knee Arthroplasty in Patients with Preoperative Genu Recurvatum  
\*Przemyslaw M. Kamien, M.D.  
Rochester, MN  
Kris J. Alden, M.D.  
Rochester, MN  
Arlen D. Hanssen, M.D.  
Rochester, MN
99. Comparison of Perioperative Cost-Utility for Conventional and Customized Total Knee Arthroplasty  
Ryan M. Nunley, M.D.  
St. Louis, MO  
Adrienne Ford, MPH, MT(ASCP)  
St. Louis, MO  
Keith A. Foreman, R.N.  
St. Louis, MO  
\*Bradley S. Ellison, M.D.  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO
100. Inflammatory and Immunological Responses to Bolus versus Multiple Injections of Synvisc in a Murine Biocompatibility Model  
\*Syed A. Sami, M.D.  
Southfield, MI  
Nancy M. Jackson, Ph.D.  
Southfield, MI  
Amanda Esquivel, Ph.D.  
Southfield, MI  
Jeffrey C. Flynn, Ph.D.  
Southfield, MI  
Weiping Ren, Ph.D.  
Southfield, MI  
David C. Markel, M.D.  
Southfield, MI
101. Myofibroblast Numbers are Increased Early in a Rabbit Knee Contracture Model  
Matthew P. Abdel, M.D.  
Rochester, MN  
Mark E. Morrey, M.D.  
Rochester, MN  
\*Jonathan D. Barlow, M.D.  
Rochester, MN  
Cole R. Kreofsky, B.S.  
Rochester, MN  
Kai-Nan An, Ph.D.  
Rochester, MN  
Scott P. Steinmann, M.D.  
Rochester, MN  
Bernard F. Morrey, M.D.  
Rochester, MN  
Joaquin Sanchez-Sotelo, M.D.  
Rochester, MN
102. Validating Patient-Specific Total Knee Arthroplasty  
\*Mark A. Yaffe, M.D.  
Chicago, IL  
Brett W. McCoy, M.D.  
Chicago, IL  
S. David Stulberg, M.D.  
Chicago, IL
103. Total Knee Arthroplasty in Morbidly Obese Patients Treated with Bariatric Surgery: A Comparative Study  
Erik P. Severson, M.D.  
Crosby, MN  
\*James A. Browne, M.D.  
Charlottesville, VA  
Jasvinder Singh, M.D.  
Birmingham, AL  
Robert T. Trousdale, M.D.  
Rochester, MN  
Michael G. Sarr, M.D.  
Rochester, MN  
David G. Lewallen, M.D.  
Rochester, MN
104. Repair of Medial Patellofemoral Ligament Improves Patellar Tracking in Total Knee Replacement  
\*R. Michael Meneghini, M.D.  
Indianapolis, IN  
Mary Ziemba-Davis, B.S.  
Indianapolis, IN  
James Bicos, M.D.  
Indianapolis, IN  
Shelly A. Smits, R.N.  
Indianapolis, IN
105. Single Radius versus Multi-Radius of Curvature Design in Total Knee Arthroplasty  
Wael K. Barsoum, M.D.  
Cleveland, OH  
\*Laurence Cook, B.S.  
Cleveland, OH  
Alison K. Klika, M.S.  
Cleveland, OH  
Travis Smith, D.O.  
Cleveland, OH  
Diren Arsoy, M.D.  
Cleveland, OH  
Robert Molloy, M.D.  
Cleveland, OH

\*Denotes Speaker

106. Cruciate-Retaining Mobile-Bearing Total Knee Arthroplasty: Minimum Four-Year Follow-Up  
 \*Justin Elwood, M.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
- BREAKOUT SESSION #10**  
**HIP PRESERVATION**  
**11:00 a.m. - 12:23 p.m., Friday, April 8, 2011**
107. Hip Pain Referral Patterns in Patients with Labral Tears: Analysis Based on Intra-Articular Injections, Hip Arthroscopy, and a New Pain "Circle" Diagram  
 Douglas R. Arnold, M.D.  
 Madison, WI  
 \*James S. Keene, M.D.  
 Madison, WI  
 Donna G. Blankenbaker, M.D.  
 Madison, WI  
 Arthur A. DeSmet, M.D.  
 Madison, WI
108. Incidence of Bony Abnormalities in Patients with and without Acetabular Labral Tears  
 Jason D. Archibald, M.D.  
 Madison, WI  
 Erica M. Knavel, B.S.  
 Madison, WI  
 \*James S. Keene, M.D.  
 Madison, WI
109. Do Alpha Angles on Plain Radiographs Correlate with Three-Dimensional Imaging?  
 \*Jeffrey J. Nepple, M.D.  
 St. Louis, MO  
 John M. Martell, M.D.  
 Chicago, IL  
 Young-Jo Kim, M.D.  
 Boston, MA  
 Michael B. Millis, M.D.  
 Boston, MA  
 David A. Podeszwa, M.D.  
 Dallas, TX  
 Ernest L. Sink, M.D.  
 Denver, CO  
 Daniel J. Sucato, M.D.  
 Dallas, TX  
 Ira Zaltz, M.D.  
 Royal Oak, MI  
 John C. Clohisy, M.D.  
 St. Louis, MO
110. Evaluation of the Acetabular Labrum in Impingement Free Range of Motion and Dislocation Using a Novel Cadaveric Robotics Model  
 \*John J. Bottros, M.D.  
 Cleveland, OH  
 Clay B. Greeson, M.D.  
 Cleveland, OH  
 Robb W. Colbrunn, M.S.  
 Cleveland, OH  
 Antonie J. van den Bogert, Ph.D.  
 Cleveland, OH  
 Wael K. Barsoum, M.D.  
 Cleveland, OH
111. Markerless Tracking of Hip Motion and Femoroacetabular Impingement  
 \*Orry Erez, M.D.  
 Detroit, MI  
 Ira Zaltz, M.D.  
 Royal Oak, MI  
 Richard Bangelmeir, Ph.D.  
 Detroit, MI  
 Michael J. Bey, Ph.D.  
 Detroit, MI
112. Increased Alpha Angle in Young Hip Arthroplasty Patients  
 \*Richard W. Kang, M.D.  
 Chicago, IL  
 Geoffrey S. Van Thiel, M.D.  
 Chicago, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL  
 Shane J. Nho, M.D.  
 Chicago, IL
113. Combined PAO and Surgical Dislocation for Correction of Perthes-Like Hip Deformities  
 T. R. Lewis, M.D.  
 St. Louis, MO  
 Gail Pashos, B.S.  
 St. Louis, MO  
 Perry L. Schoenecker, M.D.  
 St. Louis, MO  
 \*John C. Clohisy, M.D.  
 St. Louis, MO

\*Denotes Speaker

114. The Reliability of Computer-Assisted Analysis of Pelvic Radiographs  
 \*Jeffrey J. Nepple, M.D.  
 St. Louis, MO  
 John M. Martell, M.D.  
 Chicago, IL  
 Harish S. Hosalkar, M.D.  
 San Diego, CA  
 Young-Jo Kim, M.D.  
 Boston, MA  
 Michael B. Millis, M.D.  
 Boston, MA  
 David A. Ploeszwa, M.D.  
 Dallas, TX  
 Ernest L. Sink, M.D.  
 Denver, CO  
 Daniel J. Sucato, M.D.  
 Dallas, TX  
 Ira Zaltz, M.D.  
 Royal Oak, MI  
 John C. Clohisy, M.D.  
 St. Louis, MO

115. Arthroscopic Management of Intra-Articular Hip Pathology: A Prospective Cohort Study  
 \*Walter S. Choate, M.D.  
 New Orleans, LA  
 Misty Suri, M.D.  
 New Orleans, LA

Lunch on your own

1:00 p.m. - 3:00 p.m.  
 Multimedia Education

1:30 p.m.  
 Mid-America Golf Tournament  
 (see page 42)

1:30 p.m.  
 Optional Tour – Sabino Canyon and De Grazia Gallery  
 (see page 41)

6:30 p.m. - 7:30 p.m.  
**Steel Lecture – “Navajo Code Talkers”**  
 Zonnie M. Gorman  
 Consultant/Lecturer/Historian  
 Gallup, NM

Recognized historian of the Navajo Code Talkers of World War II, Zonnie Gorman is an expert in her field and dedicated teacher. She has served as a consultant to numerous documentaries, museum exhibitions, and authors. Ms. Gorman is currently the Project Coordinator for the Circle of Light Navajo Education Project, a non-profit organization founded in May 2001 and located in Gallup, New Mexico. CLNEP offers a variety of Navajo role models to youth and fosters cultural pride and self worth, while educating them along with non-Navajos about the rich history, culture, language, and contributions of the Navajo people.

Ms. Gorman is the daughter of the late Dr. Carl Gorman; artist, teacher, and one of the original “first twenty-nine” Navajo Code Talkers who devised the initial Navajo code. The Code Talkers played a vital role in the Pacific campaigns during World War II. They developed and utilized a code in their native language that baffled the Japanese and helped win American victory in the Pacific. In 1989, Gorman embarked on a journey to discover that part of her father that had been a Code Talker. With a love of history, her journey has led her through 15 years of in-depth research and interviews. Gorman shares a touching story of young teenage boys seeking adventure and escape. The Code Talker story is the ultimate paradox – a shining achievement for Native America. For more information on Zonnie Gorman, please visit [www.apbspeakers.com](http://www.apbspeakers.com).

7:30 p.m. - 10:00 p.m.  
 Wild West Round Up - Dinner/Dance  
 Casual attire - wear your boots and jeans  
*Price: Included in Registration Fee for doctors, allied health, and registered spouses/guests.*  
*Exhibitor cost: \$135/person*  
 Children’s meal tickets are available for \$25/child (ages 3-11). Children’s tickets may be purchased via the MAOA web site when registering for the meeting.

**SATURDAY, APRIL 9, 2011**

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

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

**INSTRUCTIONAL COURSE III – Revision Total Knee Arthroplasty: What the Practicing Orthopedic Surgeon Needs to Know**

Continental breakfast will be available

Craig J. Della Valle, M.D., Moderator  
Chicago, IL

David J. Jacofsky, M.D.  
Phoenix, AZ

R. Michael Meneghini, M.D.  
Indianapolis, IN

Scott M. Sporer, M.D.  
Winfield, IL

The objectives of this course are to provide the orthopedic surgeon with a working knowledge of the basics of revision total knee arthroplasty. This course will include evaluating the painful or failed total knee, obtaining exposure and removing implants, a step-wise approach to performing a revision total knee, and the diagnosis and treatment of infection. There will also be cases presented for discussion and questions.

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

**INSTRUCTIONAL COURSE IV – Value, Quality, and Cost. Issues for Streamlining an Orthopedic Service Line**

Continental breakfast will be available

Gregory L. DeSilva, M.D., Moderator  
Tucson, AZ

Ryan A. Beekman, M.D.  
Jackson, MI

Stephen P. DeSilva, M.D.  
West Bloomfield, MI

Healthcare reform is inevitable. In 2011, CMS is projected to have a budget of \$784 billion. Of this, approximately 60% is directed to Medicare and 38% to Medicaid programs. Thus, the government is the largest purchaser of health care and supports nearly 33% of the American peo-

ple. As government demands more value for their expenditure, they are looking for higher quality and lower cost. This instructional course will bring together various perspectives from the region to discuss how to assess value, quality, and streamline costs in the orthopedic service line. Topics to include:

1. Value, Quality, and Performance Curves
2. Decreasing costs associated with the treatment of distal radius fractures
3. Value, Quality, and Costs: A Community Hospital Perspective
4. Value, Quality, and Costs: A University Hospital Perspective

7:30 a.m. - 12:30 p.m.

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

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

Second Business Meeting  
(MAOA Members Only)

**THIRD PLENARY SESSION**

**8:10 a.m. - 10:00 a.m., Saturday, April 9, 2011**

8:10 a.m. - 8:12 a.m.

Assemble/Announcements

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

Presentation of Mid-America Orthopaedic Association Poster Award Winners

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

**RAPP LECTURER**

**“The Evolution of Orthopedics – Network Science and the Diffusion of Innovation”**

**Aaron G. Rosenberg, M.D.  
Chicago, IL**

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

116. What is the Value of Metal-on-Metal THA: Analysis of Survival in a Community Registry

\*Der-Chen Tim Huang, M.D.

Minneapolis, MN

Penny Tatman, MPH, MT(ASCP)

St. Paul, MN

Susan Mehle, B.S.

St. Paul, MN

Terence J. Gioe, M.D.

Minneapolis, MN

\*Denotes Speaker

117. Serum Cobalt and Chromium Levels in Patients with a Metal-on-Metal Resurfacing Hip Prosthesis: Minimum Five-Year Analysis – An Update  
 \*Bernard N. Stulberg, M.D.  
 Cleveland, OH  
 Jayson D. Zadzilka, M.S.  
 Cleveland, OH  
 Joseph C. Milbrandt, Ph.D.  
 Springfield, IL  
 D. Gordon Allan, M.D.  
 Springfield, IL  
 Hany F. Helmy, M.D.  
 Merritt Island, FL  
 Michael A. Jacobs, M.D.  
 Baltimore, MD  
 William R. Kennedy, M.D.  
 Sarasota, FL  
 Dritan Prifti, M.D.  
 Cleveland, OH
118. Metal-on-Metal Revisions: A Review of Causes and a High Incidence of Early Failure  
 \*David W. Fabi, M.D.  
 San Diego, CA  
 Brett R. Levine, M.D.  
 Chicago, IL  
 Wayne G. Paprosky, M.D.  
 Winfield, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL  
 Scott M. Sporer, M.D.  
 Winfield, IL  
 Harlan B. Levine, M.D.  
 Paramus, NJ  
 Gregg R. Klein, M.D.  
 Paramus, NJ  
 Mark A. Hartzband, M.D.  
 Paramus, NJ
119. Social Networking Profiles of Orthopedic Surgery Applicants: Are There Concerns for Professionalism?  
 Brent A. Ponce, M.D.  
 Birmingham, AL  
 Steven M. Theiss, M.D.  
 Birmingham, AL  
 \*Jason R. Determann, M.D.  
 Birmingham, AL  
 Hikel A. Boohaker, M.S.  
 Birmingham, AL  
 Gerald McGwin, B.S.  
 Birmingham, AL
120. Design, Implementation, and Evaluation of Methods for Collecting Implant Registry Data  
 Wael K. Barsoum, M.D.  
 Cleveland, OH  
 \*Carlos A. Higuera, M.D.  
 Cleveland, OH  
 Alejandra Tellez, M.D.  
 Cleveland, OH  
 Alison K. Klika, M.S.  
 Cleveland, OH  
 Preetesh D. Patel, M.D.  
 Cleveland, OH  
 Peter J. Brooks, M.D.  
 Cleveland, OH  
 Gregory Strnad, B.S.  
 Cleveland, OH  
 Boris Bershadsky, Ph.D.  
 Cleveland, OH
- 9:30 a.m. - 10:00 a.m.  
**CLASSICS IN ORTHOPAEDICS**  
**“Posterior Ankle and Hindfoot Arthroscopy: Indications, Technique, and Early Results”**  
**Charles L. Saltzman, M.D.**  
**Salt Lake City, UT**
- 10:00 a.m. - 10:30 a.m.  
 Coffee Break in Exhibit Area
- 10:30 a.m. - 12:21 p.m.  
 Breakout Sessions #11, #12, #13, #14, and #15 to run concurrently
- BREAKOUT SESSION #11**  
**SHOULDER/ELBOW**  
**10:30 a.m. - 12:15 p.m., Saturday, April 9, 2011**
121. The Use of 3D Surgical Simulation Software to Assess Glenoid Bone Loss and Retroversion as Critical Factors in Preoperative Planning for Total Shoulder Arthroplasty  
 \*Vani J. Sabesan, M.D.  
 Cleveland, OH  
 Devin Downing  
 Cleveland, OH  
 Joseph P. Iannotti, M.D.  
 Cleveland, OH

122. Heat Generated with Pegged or Keeled Glenoid Components Fixed with Defined Amounts of Cement  
 \*Kelly A. Martens, M.D.  
 Chicago, IL  
 Matthew D. Saltzman, M.D.  
 Chicago, IL  
 Sara L. Edwards, M.D.  
 Chicago, IL  
 Imran Omar, M.D.  
 Chicago, IL
123. Assessment of Scapular Morphology as a Predictor of Notching in Reverse Shoulder Replacement  
 \*David Kovacevic, M.D.  
 Cleveland, OH  
 Vani J. Sabesan, M.D.  
 Cleveland, OH  
 Joseph P. Iannotti, M.D.  
 Cleveland, OH
124. Early Subjective and Objective Outcomes of Patients Undergoing Reverse Bilateral Total Shoulder Arthroplasty  
 \*Christopher Boone, M.D.  
 Royal Oak, MI  
 Laurence B. Kempton, M.D.  
 Royal Oak, MI  
 Elizabeth Ankerson, B.S.  
 Royal Oak, MI  
 Mamtha Balasubramaniam, M.S.  
 Royal Oak, MI  
 J. Michael Wiater, M.D.  
 Royal Oak, MI
125. Comparison of Suture Patterns in Labral Repairs of the Glenohumeral Joint  
 Stephen E. Lemos, M.D.  
 Detroit, MI  
 Douglas D. Duncan, M.D.  
 Detroit, MI  
 Nikola Dobrasevic, M.D.  
 Detroit, MI  
 Stephanie G. Manza, B.S.  
 Detroit, MI  
 \*Amanda Esquivel, Ph.D.  
 Southfield, MI  
 David Lemos, M.D.  
 Detroit, MI
126. Biomechanical Testing of Implants for Segmental Defects of the Humeral Diaphysis: OsteoBridge® versus IntraMedullary Nails  
 \*Carolyn B. Yang, M.D.  
 Kansas City, KS  
 Kimberly J. Templeton, M.D.  
 Kansas City, KS  
 Patrick G. Moodie, M.S.  
 Kansas City, KS  
 Terence E. McIlff, Ph.D.  
 Kansas City, KS
127. Arthroscopic Knotless Rotator Cuff Repair and Accelerated Rehabilitation Outcomes  
 \*Caroline Wolfe, B.S.  
 Detroit, MI  
 J. Antonio Bouffard, M.D.  
 Detroit, MI  
 Jarrett Helming, D.O.  
 Detroit, MI  
 Chris Stuart, P.A.  
 Detroit, MI  
 Henry T. Goitz, M.D.  
 Detroit, MI
128. Medial Elbow Exposure: FCU-Split versus Over-the-Top  
 \*Jeannie Huh, M.D.  
 San Antonio, TX  
 Chad A. Krueger, M.D.  
 San Antonio, TX  
 Michael J. Medvecky, M.D.  
 New Haven, CT  
 Jess M. Kirby, M.D.  
 San Antonio, TX  
 Joseph R. Hsu, M.D.  
 San Antonio, TX
129. Olecranon Plating – How to Minimize Symptomatic Hardware  
 \*Hasan E. Baydoun, M.D.  
 Chicago, IL  
 Kamran N. Sadr, M.D.  
 Chicago, IL  
 Benjamin A. Goldberg, M.D.  
 Chicago, IL
130. Osteochondritis Dissecans Involving the Trochlea of the Elbow: Can it be Treated like the Capitellum?  
 \*Rudy Kovachevich, M.D.  
 Rochester, MN  
 Shawn W. O'Driscoll, M.D.  
 Rochester, MN

131. Long-Term Outcomes of Distal Bicep Tendon Ruptures  
 \*Angela M. Passanise, D.O.  
 Warren, MI  
 Henry T. Goitz, M.D.  
 Detroit, MI

## BREAK-OUT SESSION #12

### TRAUMA II

10:30 a.m. - 12:21 p.m., Saturday, April 9, 2011

132. Role of Acute Negative Pressure Wound Therapy Over Primarily Closed Surgical Incisions in Hip, Pelvis, and Acetabular Fracture Surgery – A Prospective Randomized Trial  
 \*Brett D. Crist, M.D.  
 Columbia, MO  
 Michael S. Khazzam, M.D.  
 Columbia, MO  
 Gregory J. Della Rocca, M.D.  
 Columbia, MO  
 Yvonne M. Murtha, M.D.  
 Columbia, MO  
 James P. Stannard, M.D.  
 Columbia, MO

133. A Prospective Study Assessing the Influence of Insurance Status on Initial Treatment and Referral of Operative Ankle Fractures to a Level I Trauma Center  
 \*Sudhir R. Belagaje, M.D.  
 Cincinnati, OH  
 Michael T. Archdeacon, M.D.  
 Cincinnati, OH

134. Inter- and Intraobserver Reliability in Determining Hip Stability After Posterior Wall Acetabulum Fractures Using Plain Radiographs and Computed Tomography  
 Adrian T. Davis, M.D.  
 St. Louis, MO  
 \*Berton R. Moed, M.D.  
 St. Louis, MO  
 Heidi Israel, Ph.D.  
 St. Louis, MO

135. Risk Factors for Syndesmotom and Medial Ankle Sprain: Role of Sex, Sport, and Level of Competition  
 \*Brian R. Waterman, M.D.  
 El Paso, TX  
 Philip J. Belmont, Jr., M.D.  
 El Paso, TX  
 Kenneth L. Cameron, Ph.D.  
 West Point, NY  
 Steven J. Svoboda, M.D.  
 West Point, NY  
 Curtis J. Alitz, M.D.  
 West Point, NY  
 Brett D. Owens, M.D.  
 West Point, NY

136. Comparison of Lateral Locked Plating with Additional Distal Fixation and Antigliding Plating for Fixation of Distal Fibular Fractures in Osteoporotic Bone  
 \*Neel P. Jain, M.D.  
 Chicago, IL  
 Mahesh Polavarapu, B.S.  
 Chicago, IL  
 Yupeng Ren, M.S.  
 Chicago, IL  
 Xin Guo, Ph.D.  
 Chicago, IL  
 Li-Qun Zhang, Ph.D.  
 Chicago, IL  
 Bradley R. Merk, M.D.  
 Chicago, IL

137. Monolateral External Fixation Frames with Divergent Half Pins: A Biomechanical Study  
 \*Bradley Q. Warlick, M.D.  
 St. Louis, MO  
 J. Tracy Watson, M.D.  
 St. Louis, MO  
 J. Gary Bledsoe, Ph.D.  
 St. Louis, MO

138. Polyaxial Locked Implants for Treatment of Periprosthetic Fractures of the Femur  
 Jan Mainers, M.D.  
 Hamburg, Germany  
 Maximilian Faschinbauer, M.D.  
 Hamburg, Germany  
 Christine Voigt, M.D.  
 Lübeck, Germany  
 Christian Jürgens, M.D.  
 Lübeck, Germany  
 A. Peter Schulz, M.D.  
 Lübeck, Germany  
 \*Hector Cabrera-Palacios, M.D.  
 Lübeck, Germany

139. Results and Functional Outcome of Femoral Neck Nonunions in Young Adults  
 Clifford B. Jones, M.D.  
 Grand Rapids, MI  
 \*Marlon O. Coulibaly, M.D.  
 Grand Rapids, MI  
 Debra L. Sietsema, Ph.D., R.N.  
 Grand Rapids, MI  
 James R. Ringler, M.D.  
 Grand Rapids, MI  
 Terrence J. Endres, M.D.  
 Grand Rapids, MI
140. Effects of Computerized Physician Order Entry (CPOE) on Postoperative Antibiotic Administration Errors in Patients with Open and Closed Fractures  
 \*Cory A. Collinge, M.D.  
 Fort Worth, TX  
 Michael J. Beltran, M.D.  
 San Antonio, TX
141. Orthopedic Surgical Procedures Required by Soldiers in a U.S. Army Brigade Combat Team Upon Return from Operation Iraqi Freedom  
 Gens P. Goodman, D.O.  
 El Paso, TX  
 Andrew J. Schoenfeld, M.D.  
 El Paso, TX  
 \*Jason R. Dutton, D.O.  
 El Paso, TX  
 Robert Burks, Ph.D.  
 El Paso, TX  
 Brett D. Owens, M.D.  
 West Point, NY  
 Philip J. Belmont, Jr., M.D.  
 El Paso, TX
142. Cell Viability and Osteogenic Potential of Bone Graft Obtained via Iliac Crest versus Reamer Irrigator Aspirator (RIA)  
 \*Harmeeth Uppal, M.D.  
 Columbia, MO  
 Blake Peterson, B.S.  
 Columbia, MO  
 Michael Misfeldt, Ph.D.  
 Columbia, MO  
 Yvonne M. Murtha, M.D.  
 Columbia, MO  
 Gregory J. Della Rocca, M.D.  
 Columbia, MO  
 James P. Stannard, M.D.  
 Columbia, MO  
 Brett D. Crist, M.D.  
 Columbia, MO
143. Off-Label Treatment of Nonunions with BMP-2  
 \*Jaron P. Sullivan, M.D.  
 Iowa City, IA  
 J. Lawrence Marsh, M.D.  
 Iowa City, IA  
 Todd O. McKinley, M.D.  
 Iowa City, IA
- BREAK-OUT SESSION #13**  
**SPORTS/RESURFACING**  
**10:30 a.m. - 12:03 p.m., Saturday, April 9, 2011**
144. The Effect of Platelet-Rich Plasma in Allograft ACL Reconstruction  
 Kate Heinlein, B.S.  
 Columbus, OH  
 Angela Pedroza, MPH  
 Columbus, OH  
 David C. Flanigan, M.D.  
 Columbus, OH  
 \*Christopher C. Kaeding, M.D.  
 Columbus, OH
145. The Effect of the Iliotibial Band on Knee Laxity in ACL Injuries  
 \*Paul D. Butler, M.D.  
 Grand Rapids, MI  
 Chloe J. Mellecker, B.S.  
 Iowa City, IA  
 M. James Rudert, Ph.D.  
 Iowa City, IA  
 Daniel R. Thedens, Ph.D.  
 Iowa City, IA  
 John P. Albright, M.D.  
 Iowa City, IA
146. Soft Tissue Healing in an In Vivo ACL Allograft Model: Comparison to Autograft and Effects of Gamma Irradiation  
 \*Sanjeev Bhatia, M.D.  
 Chicago, IL  
 Rachel Frank, B.S.  
 Chicago, IL  
 Rebecca Bell, B.S.  
 Chicago, IL  
 Cecilia Pascual-Garrido, M.D.  
 Chicago, IL  
 Bernard R. Bach, Jr., M.D.  
 Chicago, IL  
 Susanna Chubinskaya, Ph.D.  
 Chicago, IL  
 Vincent M. Wang, Ph.D.  
 Chicago, IL  
 Nikhil N. Verma, M.D.  
 Chicago, IL

\*Denotes Speaker

147. Using Evidence-Based Medicine in the Management of Chondral Defects of the Knee in Athletes  
 Joshua D. Harris, M.D.  
 Columbus, OH  
 Robert H. Brophy, M.D.  
 St. Louis, MO  
 Robert A. Siston, Ph.D.  
 Columbus, OH  
 \*Thai Q. Trinh, B.S.  
 Columbus, OH  
 David C. Flanigan, M.D.  
 Columbus, OH
148. When to Release Patients to High Impact Activities Following Hip Resurfacing  
 \*Ryan M. Nunley, M.D.  
 St. Louis, MO  
 Katherine M. Bedigrew, M.D.  
 Fort Sam Houston, TX  
 Erin L. Ruh, M.S.  
 St. Louis, MO  
 John C. Clohisy, M.D.  
 St. Louis, MO  
 Robert L. Barrack, M.D.  
 St. Louis, MO
149. Step Activity Levels After Hip Resurfacing and THA in a Young Active Population  
 \*Ryan M. Nunley, M.D.  
 St. Louis, MO  
 John C. Clohisy, M.D.  
 St. Louis, MO  
 Erin L. Ruh, M.S.  
 St. Louis, MO  
 Robert L. Barrack, M.D.  
 St. Louis, MO
150. Current Generation Hip Resurfacing versus a New Uncemented Total Hip Arthroplasty: Clinical Outcomes and the Learning Curve  
 \*Glenn D. Wera, M.D.  
 Cleveland, OH  
 Robert M. Coale, M.D.  
 Cleveland, OH  
 Carter Petty, M.S.  
 Boston, MA  
 Sam S. Akhavan, M.D.  
 Pittsburgh, PA  
 Victor M. Goldberg, M.D.  
 Cleveland, OH
151. Computer Models for Testing Impingement – Free Range of Motion in Hip Resurfacing  
 \*Ian Gradisar, M.D.  
 Akron, OH  
 Jason Bryan, M.S.  
 Cleveland, OH  
 Travis Smith, D.O.  
 Cleveland, OH  
 Erika Schneider, Ph.D.  
 Cleveland, OH  
 Wael K. Barsoum, M.D.  
 Cleveland, OH
152. Functional Outcome of Total Hip Resurfacing versus Total Hip Arthroplasty: A Blinded, Randomized Trial  
 \*Rafael J. Sierra, M.D.  
 Rochester, MN  
 Robert T. Trousdale, M.D.  
 Rochester, MN  
 Kenton R. Kaufman, Ph.D.  
 Rochester, MN
- BREAK-OUT SESSION #14**  
**REVISION HIP/KNEE**  
**10:30 a.m. - 12:15 p.m., Saturday, April 9, 2011**
153. Revision of a Cemented Acetabular Component to a Cementless Acetabular Component at Minimum 20-Year Follow-Up  
 \*Bryan Trumm, 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
154. Effectiveness of False Profile Radiographs in Detection of Pelvic Discontinuity in a Cadaver Model  
 \*Matthew C. Wendt, M.D.  
 Rochester, MN  
 Michael J. Adler, M.D.  
 Rochester, MN  
 Robert T. Trousdale, M.D.  
 Rochester, MN  
 Tad M. Mabry, M.D.  
 Rochester, MN  
 Miguel E. Cabanela, M.D.  
 Rochester, MN

155. Acute and Delayed Total Hip Arthroplasty with Antiprotrusion Cage for Treatment of Acetabular Fractures  
 \*Robert J. Otto, M.D.  
 St. Louis, MO  
 Thomas J. Otto, M.D.  
 St. Louis, MO
156. Modular Tapered Implants for Severe Femoral Bone Loss in Revision Total Hip Arthroplasty  
 Cara A. Cipriano, M.D.  
 Chicago, IL  
 Nicholas M. Brown, B.S.  
 Chicago, IL  
 Wayne G. Paprosky, M.D.  
 Winfield, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL  
 \*Scott M. Sporer, M.D.  
 Winfield, IL
157. Varus Remodeling of the Femur in Revision Total Hip Arthroplasty  
 \*Jared R. Foran, M.D.  
 Chicago, IL  
 Nicholas M. Brown, B.S.  
 Chicago, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL  
 Scott M. Sporer, M.D.  
 Chicago, IL  
 Brett R. Levine, M.D.  
 Chicago, IL  
 Wayne G. Paprosky, M.D.  
 Chicago, IL
158. Revision THR in Geriatric Patients: Is it Similar to Younger Patients?  
 \*Zachary Zhang, B.S.  
 Dallas, TX  
 William Z. Morris, B.S.  
 Dallas, TX  
 Michael H. Huo, M.D.  
 Dallas, TX
159. Porous Tantalum Cones for Large Bone Defects in Total Knee Arthroplasty  
 Brett R. Levine, M.D.  
 Chicago, IL  
 \*Edward Jung, B.S.  
 Chicago, IL  
 Scott M. Sporer, M.D.  
 Winfield, IL  
 Craig J. Della Valle, M.D.  
 Chicago, IL  
 Wayne G. Paprosky, M.D.  
 Winfield, IL
160. Results of Total Knee Revision for Malrotation  
 \*Nathan E. Sneddon, M.D.  
 Omaha, NE  
 Beau S. Konigsberg, M.D.  
 Omaha, NE  
 Seth Keiser, B.S.  
 Omaha, NE  
 Kevin L. Garvin, M.D.  
 Omaha, NE
161. Articulating Antibiotic Spacers for Infected Knee Arthroplasty: Is There a "Best Method"?  
 \*Niraj V. Kalore, M.D.  
 Minneapolis, MN  
 Aditya V. Maheshwari, M.D.  
 Minneapolis, MN  
 Amit K. Sharma, M.D.  
 Minneapolis, MN  
 Edward Y. Cheng, M.D.  
 Minneapolis, MN  
 Terence J. Gioe, M.D.  
 Minneapolis, MN
162. Lateral Patellar Facet Resection for Symptomatic Lateral Facet Impingement After Primary TKA  
 \*O. Brant Nikolaus  
 Rochester, MN  
 Robert T. Trousdale, M.D.  
 Rochester, MN  
 Arlen D. Hanssen, M.D.  
 Rochester, MN  
 Rafael J. Sierra, M.D.  
 Rochester, MN

163. Revision Surgery for Patellofemoral Problems: Prevalence in TKA with and without Patellar Resurfacing  
\*Todd C. Johnson, M.D.  
Minneapolis, MN  
Penny Tatman, MPH, MT(ASCP)  
St. Paul, MN  
Susan Mehle, B.S.  
St. Paul, MN  
Terence J. Gioe, M.D.  
Minneapolis, MN
167. Intramedullary Device versus K-wire Fixation for Proximal Interphalangeal Joint Arthrodesis for Hammer Toe Correction: Preliminary Results of Randomized Controlled Clinical Study  
\*Donald R. Bohay, M.D.  
Grand Rapids, MI  
Rohan A. Habbu, M.D.  
Grand Rapids, MI  
Adam Booth, B.S.  
Grand Rapids, MI  
Michelle A. Padley, B.S.  
Grand Rapids, MI  
John G. Anderson, M.D.  
Grand Rapids, MI

## BREAK-OUT SESSION #15

### FOOT AND ANKLE

10:30 a.m. - 12:21 p.m., Saturday, April 9, 2011

164. Complications and Reoperations Following Total Ankle Arthroplasty: Review of 70 Cases  
\*Rohan A. Habbu, M.D.  
Grand Rapids, MI  
Michelle A. Padley, B.S.  
Grand Rapids, MI  
Donald R. Bohay, M.D.  
Grand Rapids, MI  
John G. Anderson, M.D.  
Grand Rapids, MI
165. Long-Term Outcome of Total Ankle Arthroplasty  
\*Keith C. Douglas, M.D.  
Nashville, TN  
Rishi Naik, B.S.  
Nashville, TN  
A. Brian Thomson, M.D.  
Nashville, TN
166. Ankle Fusion versus Salto Talaris Anatomic Ankle Replacement: A Two-Year Experience  
Jason E. Lake, M.D.  
Cleveland, OH  
\*James J. Sferra, M.D.  
Cleveland, OH
168. Treatment of Jones' Fractures Without Weight-Bearing Restrictions  
\*Geoffrey S. Maracek, M.D.  
Chicago, IL  
Jeffrey S. Earhart, M.D.  
Chicago, IL  
Bradley R. Merk, M.D.  
Chicago, IL
169. Stress Fractures in Patients with Metatarsus Adductus  
\*Arthur Manoli, II, M.D.  
Pontiac, MI  
David Lemos, M.D.  
Pontiac, MI
170. Complications of Percutaneous Posterior to Anteriorly Inserted Screw Fixation in Patients with Talar Neck Fractures  
\*Cory A. Collinge, M.D.  
Fort Worth, TX  
Michael J. Beltran, M.D.  
San Antonio, TX
171. Outcomes of Type 2 and 3 Open Calcaneus Fractures Managed with Open Reduction and Internal Fixation Using the Medial Open Fracture Wound  
\*Cory A. Collinge, M.D.  
Fort Worth, TX  
Michael J. Beltran, M.D.  
San Antonio, TX

172. A Biomechanical Comparison of Periarticular versus One-Third Tubular Plates for Fixation of Osteoporotic Distal Fibula Fractures  
 \*Adrian T. Davis, M.D.  
 St. Louis, MO  
 Lisa K. Cannada, M.D.  
 St. Louis, MO  
 Heidi Israel, Ph.D.  
 St. Louis, MO  
 J. Gary Bledsoe, Ph.D.  
 St. Louis, MO
- 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

**SUNDAY, APRIL 10, 2011**

173. Biomechanical Comparison of Distal Tibiofibular Syndesmotic Joint Fixation: Novel Suture Construct versus Metallic Screw Construct in Syndesmotic Injury Model  
 \*Brandon E. Gough, M.D.  
 Wichita, KS  
 Alexander C. M. Chong, MSAE, MSME  
 Wichita, KS  
 Steven J. Howell, M.D.  
 Wichita, KS  
 Joseph W. Galvin  
 Wichita, KS  
 Paul H. Wooley, Ph.D.  
 Wichita, KS
- Departure
174. Functional Outcome After Bridle Procedure for Foot Drop  
 \*Scott M. Riestler, M.D.  
 Rochester, MN  
 Anthony E. Voll, R.N.  
 Rochester, MN  
 Norman S. Turner, M.D.  
 Rochester, MN
175. The Incidence of DVT and/or Pulmonary Embolism After Hindfoot Arthrodesis—Is Prophylactic Anticoagulation Justified?  
 \*Michael J. Carlson, M.D.  
 Omaha, NE  
 Robert E. Van Demark, Jr., M.D.  
 Sioux Falls, SD  
 Kathleen M. Grier, M.D.  
 Omaha, NE  
 David J. Inda, M.D.  
 Omaha, NE  
 Scott T. McMullen, M.D.  
 Omaha, NE  
 Timothy C. Fitzgibbons, M.D.  
 Omaha, NE

## POSTER PRESENTATIONS

The following posters will be displayed in the Turquoise and Presidio Foyers from 7:30 a.m. to 12:30 p.m. on Thursday, Friday, and Saturday as well as on Thursday evening from 6:00 p.m. to 7:30 p.m. during the Exhibitors' Reception.

The poster presenters will be available on Thursday evening during the Exhibitor Reception (6:00 p.m. to 7:30 p.m.) and on Friday morning during the coffee break (10:28 a.m. to 11:00 a.m.) to answer any questions. CME Category 1 credit hours can be earned for poster viewing only during the times mentioned above when the presenters are available.

### Miscellaneous

1. The Use of Implantable Bone Stimulators in Nonunion Treatment  
\*Michael S. Hughes, M.D.  
Columbia, MO  
Jeffrey O. Anglen, M.D.  
Indianapolis, IN
  2. Differentiation of Adult Human Adipose-Derived Stem Cells into Articular Chondrocytes is Achieved by Overexpression of the BMP Receptor 1A  
\*Farhang Raaii, M.D.  
Southfield, MI  
David C. Markel, M.D.  
Southfield, MI
  3. Bioengineered Hyaline Cartilage from Human and Bovine Chondrocytes Embedded in Polyethylene Glycol and Electrospun Polycaprolactone Polymer Scaffolds  
\*Matthew F. Dilisio, M.D.  
Akron, OH  
Walter Horton, Ph.D.  
Rootstown, OH  
Scott D. Weiner, M.D.  
Akron, OH  
Denise McBurney, B.S.  
Rootstown, OH  
Shing-Chung Wong, Ph.D.  
Akron, OH
  4. Orthopedic Surgery in Rural America: A Survey of Rural Orthopedic Surgeons  
\*Derek W. Weichel, M.D.  
Tampa, FL
- ### Foot and Ankle
5. Partial Tibial Nerve Transfer to the Tibialis Anterior Motor Branch for the Treatment of Peroneal Nerve Injury  
Jennifer Giuffre, M.D.  
Rochester, MN  
Allen T. Bishop, M.D.  
Rochester, MN  
Robert J. Spinner, M.D.  
Rochester, MN  
\*Bruce A. Levy, M.D.  
Rochester, MN  
Alexander Y. Shin, M.D.  
Rochester, MN
  6. Doubled Allograft Reconstruction for Chronic Syndesmotic Injuries  
\*James E. Moravek, M.D.  
Ann Arbor, MI  
Anish R. Kadakia, M.D.  
Ann Arbor, MI
  7. Nonunions Following Jones Fracture: Treatment with Closed Intramedullary Screw Fixation  
Rohan A. Habbu, M.D.  
Grand Rapids, MI  
\*Robert S. Marsh, M.D.  
Grand Rapids, MI  
Donald R. Bohay, M.D.  
Grand Rapids, MI  
John G. Anderson, M.D.  
Grand Rapids, MI
- ### Hip and Knee
8. Uncemented Total Hip Arthroplasty in Obese versus Non-Obese Patients: An 18-27 Year Follow-Up Study Using a Tapered Stem  
\*Jeffrey R. McLaughlin, M.D.  
Oshkosh, WI  
Kyla R. Lee, M.D.  
Oshkosh, WI
  9. Accuracy of "Blind" Anatomically Based Greater Trochanteric Injections  
\*Nathan Faulkner, M.D.  
Madison, WI  
James S. Keene, M.D.  
Madison, WI

10. Impingement Free Range of Motion and Dislocation Potential in Total Hip Arthroplasty versus Femoral Head Resurfacing Using a Novel Cadaveric Robotics Model  
\*John J. Bottros, M.D.  
Cleveland, OH  
Clay B. Greeson, M.D.  
Cleveland, OH  
Robb W. Colbrunn, M.S.  
Cleveland, OH  
Antonie J. van den Bogert, Ph.D.  
Cleveland, OH  
Wael K. Barsoum, M.D.  
Cleveland, OH
11. The Effects of Material Selection on the Endurance Strength of Modular Necks  
\*C. Lowry Barnes, M.D.  
Little Rock, AR
12. High Speed Recreational Riding Activities After Total Hip Arthroplasty: Are They Safe?  
\*Beau S. Konigsberg, M.D.  
Omaha, NE  
Jonathan Eggers, Ph.D.  
Omaha, NE  
Kevin L. Garvin, M.D.  
Omaha, NE
13. Modified Superior Approach for THA with Percutaneous Assistance: Technique and Early Results  
\*James Chow, M.D.  
Phoenix, AZ  
William Kurtz, M.D.  
Akron, OH  
Harbinder S. Chadha, M.D.  
Chula Vista, CA  
Brad L. Penenberg, M.D.  
Beverly Hills, CA  
Steven Murphy, M.D.  
Phoenix, AZ
14. Femoral Head Decompression and Autologous Bone Marrow Concentrate in Early Stage Osteonecrosis  
\*Rafael J. Sierra, M.D.  
Rochester, MN
15. Complications Following Operative Treatment of Acute Peri-Prosthetic Femur Fractures  
Neil P. Sheth, M.D.  
Chicago, IL  
Nicholas M. Brown, B.S.  
Chicago, IL  
Richard A. Berger, M.D.  
Chicago, IL  
\*Craig J. Della Valle, M.D.  
Chicago, IL
16. Demographic and Comorbid Disparities Based on a Payer Type in a Total Joint Arthroplasty Cohort  
\*Lucian C. Warth, M.D.  
Iowa City, IA  
John J. Callaghan, M.D.  
Iowa City, IA  
Steve S. Liu, M.D.  
Iowa City, IA  
Christopher W. Wells, M.D.  
Iowa City, IA
17. Reliability of Preoperative Patient Reported Comorbidities in Total Joint Arthroplasty  
\*Bishoy V. Gad, M.D.  
Cleveland, OH  
Carlos A. Higuera, M.D.  
Cleveland, OH  
Alison K. Klika, M.S.  
Cleveland, OH  
Wael K. Barsoum, M.D.  
Cleveland, OH
18. Mid-Term Follow-Up of the C-Stem: Results Using Three Different Distal Cementing Techniques  
\*Clifford K. Boese, M.D.  
Council Bluffs, IA  
Theresa J. Gallo, P.A.  
Council Bluffs, IA  
Carla J. Plantikow, M.S.  
Council Bluffs, IA
19. Is There Any Benefit of Hip Resurfacing Over Mini-Incision Total Hip Replacement?  
\*Ryan M. Nunley, M.D.  
St. Louis, MO  
John C. Clohisy, M.D.  
St. Louis, MO  
Erin L. Ruh, M.S.  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO

20. Metal Ion Levels After Hip Resurfacing in a Young Active Population  
\*Ryan M. Nunley, M.D.  
St. Louis, MO  
John C. Clohisy, M.D.  
St. Louis, MO  
Erin L. Ruh, M.S.  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO
21. Minimum Two-Year Outcome and Survivorship of the Birmingham Hip Resurfacing System in the United States  
\*Ryan M. Nunley, M.D.  
St. Louis, MO  
Christopher D. Nelson, D.O.  
St. Louis, MO  
C. Anderson Engh, Jr., M.D.  
Arlington, VA  
John S. Rogerson, M.D.  
Madison, WI  
Peter J. Brooks, M.D.  
Cleveland, OH  
Edwin P. Su, M.D.  
New York, NY  
Robert L. Barrack, M.D.  
St. Louis, MO
22. Systematic Literature Review of THA in the Very Young Patient  
James A. Keeney, M.D.  
St. Louis, MO  
Allison Pallisch, B.S.  
St. Louis, MO  
Geneva Baca  
St. Louis, MO  
Jeff Viox  
St. Louis, MO  
\*John C. Clohisy, M.D.  
St. Louis, MO
23. Patterns of Hospital Readmissions Following Total Hip Arthroplasty  
\*James A. Keeney, M.D.  
St. Louis, MO  
Ryan M. Nunley, M.D.  
St. Louis, MO  
John C. Clohisy, M.D.  
St. Louis, MO  
Robert L. Barrack, M.D.  
St. Louis, MO
24. Bleeding and Postoperative Wound Infection in Total Hip and Knee Arthroplasty with Thromboprophylaxis: A Comprehensive Literature Review  
\*Louis M. Kwong, M.D.  
Torrance, CA  
Kristin D. Kistler, Ph.D.  
Harrisburg, PA  
Roger Mills, M.D.  
Raritan, NJ  
Peter Wildgoose, Ph.D.  
Raritan, NJ  
Winslow Klaskala, Ph.D.  
Titusville, NJ
25. Association of Allogeneic Blood Transfusion with Prosthetic Joint Replacement Infection  
\*Mark I. Froimson, M.D.  
Cleveland, OH  
Christopher J. Utz, M.D.  
Cleveland, OH  
Mary LoGrasso, M.D.  
Cleveland, OH  
Gurion Rivkin, M.D.  
Cleveland, OH  
Bernard N. Stulberg, M.D.  
Cleveland, OH  
Viktor E. Krebs, M.D.  
Cleveland, OH
26. The Basic Science of Continuous Passive Motion in Promoting Knee Health: A Systematic Review  
\*Garett J. Pangrazzi, M.D.  
Columbus, OH  
David C. Flanigan, M.D.  
Columbus, OH
27. Race and Sex Specific Correlates of Tibiofemoral Joint Morphology in a Normal Population  
\*Joshua S. Everhart, B.S.  
Columbus, OH  
David C. Flanigan, M.D.  
Columbus, OH  
Ajit W. Chaudhari, Ph.D.  
Columbus, OH  
Robert Siston, Ph.D.  
Columbus, OH  
Keith Rosenberg, B.S.  
Columbus, OH

28. Arthroscopic ACL Femoral Tunnel Length Variations Using Three Dimensional Computed Tomography  
 \*Timothy E. Iorio, M.D.  
 Detroit, MI  
 Vasilios Moutzourous, M.D.  
 Detroit, MI  
 Sukhinder Bilkhu, M.S.  
 Detroit, MI  
 Richard Banglmaier  
 Detroit, MI  
 Ed Peterson, Ph.D.  
 Detroit, MI
29. Utilization of an Intramedullary Tibial Guide During UKA  
 Lindsey R. Rolston, M.D.  
 Indianapolis, IN  
 \*Clayton E. Strong, B.S.  
 Indianapolis, IN  
 Christopher A. Moore, M.S.  
 Indianapolis, IN
30. Clinical Progression of Patients Following an Isolated Meniscectomy  
 \*Caitlin Wooldridge  
 Iowa City, IA  
 John P. Albright, M.D.  
 Iowa City, IA  
 Chloe Mellecker, M.S.  
 Iowa City, IA  
 Gregory Scallon, B.S.  
 Iowa City, IA
31. Gene Expression Profiles of Fibrosis in a Rabbit Knee Model of Joint Contracture  
 \*Matthew P. Abdel, M.D.  
 Rochester, MN  
 Mark E. Morrey, M.D.  
 Rochester, MN  
 Kai-Nan An, Ph.D.  
 Rochester, MN  
 Scott P. Steinmann, M.D.  
 Rochester, MN  
 Bernard F. Morrey, M.D.  
 Rochester, MN  
 Joaquin Sanchez-Sotelo, M.D.  
 Rochester, MN
32. Comparison of Intramedullary Nail versus Locked Plate for Periprosthetic Distal Femur Fractures  
 \*Gregory M. Neely, M.D.  
 Rochester, MN  
 Matthew P. Abdel, M.D.  
 Rochester, MN  
 Joseph R. Cass, M.D.  
 Rochester, MN
33. Patellar Dislocation in the United States: Role of Sex, Age, Race, and Athletic Participation  
 \*Brian R. Waterman, M.D.  
 El Paso, TX  
 Philip J. Belmont, Jr., M.D.  
 El Paso, TX  
 Brett D. Owens, M.D.  
 West Point, NY
34. Inferior Vena Cava Filter Placement in High-Risk Patients Undergoing Total Knee Arthroplasty  
 \*Geoffrey S. Marecek, M.D.  
 Chicago, IL  
 Raju S. Ghate, M.D.  
 Chicago, IL  
 Lalit Puri, M.D.  
 Chicago, IL
35. In Vitro Wear Assessment of a New Medially Pivoting Total Knee Arthroplasty System  
 \*Robert H. Schmidt, M.D.  
 Fort Worth, TX  
 Riyaz H. Jinnah, M.D.  
 Fort Worth, TX
36. Development of the Cleveland Occupational Knee (CLOCK) Index to Predict Returning to Work  
 \*Joseph F. Styron, Ph.D.  
 Cleveland, OH  
 Kathleen Smyth, Ph.D.  
 Cleveland, OH  
 Mendel E. Singer, Ph.D.  
 Cleveland, OH  
 Wael K. Barsoum, M.D.  
 Cleveland, OH
37. Five-Year Follow-Up of Patients Whose Primary TKAs were Navigated  
 \*Bernard N. Stulberg, M.D.  
 Cleveland, OH  
 Jayson D. Zadzilka, M.S.  
 Cleveland, OH  
 Chelsea Carolin  
 Cleveland, OH

38. Is the Pie-Crusting Technique Safe for MCL Release in Varus Deformity Correction in TKR?  
\*R. Michael Meneghini, M.D.  
Indianapolis, IN  
Andrew T. Daluga, B.S.  
Farmington, CT  
Lindsey A. Sturgis, M.S.  
Farmington, CT  
Jay R. Lieberman, M.D.  
Farmington, CT

39. Mid-Term Survivorship of Hinged Total Knee Arthroplasty in Non-Tumor Patients  
\*Travis Smith, D.O.  
Cleveland, OH  
Bishoy V. Gad, M.D.  
Cleveland, OH  
Alison K. Klika, M.S.  
Cleveland, OH  
Timothy Joyce, M.S.  
Cleveland, OH  
Wael K. Barsoum, M.D.  
Cleveland, OH

## Spine

40. Chronic Axial Skeletal Pain: Evaluation of a Single Institution's Referral Patterns  
\*Matthew C. Mai, M.D.  
Springfield, IL  
Andrea Bulkley, M.D.  
Springfield, IL  
Per Freitag, M.D.  
Springfield, IL
41. Biomechanical Evaluation of Low Profile, Anchored Cervical Interbody Spacer Device in the Setting of Cervical Flexion Distraction Injury  
\*Bartosz Wojewnik, M.D.  
Maywood, IL  
Alexander J. Ghanayem, M.D.  
Maywood, IL  
Parmenion P. Tsitsopoulos, M.D.  
Hines, IL  
Leonard I. Voronov, M.D.  
Hines, IL  
Tejaswy Potturi, M.S.  
Hines, IL  
Robert M. Havey, B.S.  
Hines, IL  
Julia Zelenakova, M.S.  
Hines, IL  
Gerard Carandang, M.S.  
Hines, IL  
Avinash G. Patwardhan, Ph.D.  
Hines, IL

42. Characterization of Combat Related Spinal Injuries Sustained by a U.S. Army Brigade Combat Team During Operation Iraqi Freedom  
\*Gens P. Goodman, D.O.  
El Paso, TX  
Andrew J. Schoenfeld, M.D.  
El Paso, TX  
Philip J. Belmont, Jr., M.D.  
El Paso, TX

## Trauma

43. Staged Reverse Sural Fasciocutaneous Flap for Exposed Medial Malleolar Hardware in High Risk Patients – A Case Series  
\*Gregory L. DeSilva, M.D.  
Tucson, AZ  
Roger Bentley, B.S.  
Tucson, AZ  
Lisa M. Truchan, M.D.  
Tucson, AZ
44. Outcomes of Open Distal Femur Fractures Using Locking Plates  
Daniel M. Babbel, M.D.  
Columbia, MO  
Yvonne M. Murtha, M.D.  
Columbia, MO  
Gregory J. Della Rocca, M.D.  
Columbia, MO  
James P. Stannard, M.D.  
Columbia, MO  
\*Brett D. Crist, M.D.  
Columbia, MO
45. The Anterolateral Approach to Pilon Fractures Compromises Blood Supply to the Skin  
Brent E. Fisher, M.D.  
Louisville, KY  
Senthil T. Nathan, M.D.  
Louisville, KY  
\*Craig S. Roberts, M.D.  
Louisville, KY
46. Cadaver Pelvic Biomechanical Study: Locked versus Standard Unlocked Plating of the Symphysis Pubis in a Type-C Pelvic Injury Model  
\*Christopher P. O'Boynick, M.D.  
St. Louis, MO  
J. Gary Bledsoe, Ph.D.  
St. Louis, MO  
Berton R. Moed, M.D.  
St. Louis, MO

## Upper Extremity

47. Incidence, Complications, and Results of Long Stem Humeral Components in Primary Shoulder Arthroplasty  
 \*Christopher J. Owens, M.D.  
 Rochester, MN  
 John W. Sperling, M.D.  
 Rochester, MN  
 Robert H. Cofield, M.D.  
 Rochester, MN
48. Two Stage Reimplantation for the Treatment of Prosthetic Shoulder Infections  
 \*Vani J. Sabesan, M.D.  
 Cleveland, OH  
 David Kovacevic, M.D.  
 Cleveland, OH  
 Jason Ho, M.D.  
 Cleveland, OH  
 Joseph P. Iannotti, M.D.  
 Cleveland, OH
49. A Biomechanical Comparison of Biceps Tenodesis with Suture Anchor versus Thermal Tenodesis  
 Stephen E. Lemos, M.D.  
 Detroit, MI  
 Douglas D. Duncan, M.D.  
 Detroit, MI  
 Nikola Dobrasevic, M.D.  
 Detroit, MI  
 Stephanie G. Manza, B.S.  
 Detroit, MI  
 \*Amanda O. Esquivel, Ph.D.  
 Southfield, MI
50. Total Distal Radioulnar Joint Arthroplasty with a Semi-Constrained Prosthesis: A Preliminary Report  
 \*Timothy J. Ewald, M.D.  
 Rochester, MN  
 Steven L. Moran, M.D.  
 Rochester, MN

## IMPORTANT INFORMATION REGARDING TWENTY-NINTH ANNUAL MEETING

### WHAT IS INCLUDED IN YOUR REGISTRATION FEE?

See Page 3 regarding the registration fee for the Wednesday, April 6, 2011, “Back to the Basics: Hip and Knee Arthroplasty” course.

#### **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 generated by the annual meeting, such as name badges, printing, postage, audiovisual equipment, etc.

#### **Spouse/Guest Registration**

- Continental Breakfast at the Spouse 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 2011 meeting registration fees are as follows:**

	<u>On or before</u> <u>March 7, 2011</u>	<u>After</u> <u>March 7, 2011</u>
Member (includes evening functions)	\$800	\$900
Nonmember (includes evening functions)	\$1,200	\$1,300
Resident/Fellow/Allied Health (includes evening functions)	\$500	\$600
Spouse/Guest (includes evening functions)	\$100	\$100
Exhibitor—company representative (includes evening functions)	\$270	\$270
Exhibitor—company representative (includes Wed. dinner)	\$135	\$135
Exhibitor—company representative (includes Fri. dinner)	\$135	\$135
Exhibitor—company representative (no dinners included)	\$0	\$0

#### **POLICY REGARDING CHILDREN’S ATTENDANCE**

##### **Children**

All children attending the Twenty-Ninth 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 for the Wednesday Western buffet and the Friday Wild West Round Up buffet may be purchased via the MAOA web site when registering for the meeting. At the Hilton Tucson El Conquistador Resort, children age 18 and under stay free of charge, when sharing a room with an adult.

**HILTON TUCSON EL CONQUISTADOR GOLF & TENNIS RESORT**

The Hilton Tucson El Conquistador Golf & Tennis Resort is located on over 500 acres of serene, colorful high Sonoran Desert terrain in the foothills of the majestic Santa Catalina Mountains. The magnificent granite cliffs of Pusch Ridge rise directly behind the resort providing a breathtaking atmosphere. The resort is like a timeless masterpiece with iridescent sunsets, vivid flowers, and lush vegetation. It is a land of incomparable beauty and exemplifies the best of Southwestern living. The 428 guest rooms include 92 suites each with breathtaking views and a private terrace, all with deluxe amenities.

**MAOA has been allotted “Run of the House” accommodations. This means that our special MAOA room rate will include rooms of all types and vary in location, size, and bedding. Accommodations will be assigned at the time of check-in according to your reservation request. MAOA will also offer a special rate for Junior Suites as well as Catalina Casita Suites which are perfect for families with small children. The special MAOA group room rates are valid three (3) days prior and three (3) days after the meeting dates, subject to availability.**

***The MAOA daily room rate is as follows:***

<b>Single or Double Run of House Room</b>	<b>\$225.00</b>
<b>Triple Occupancy Run of House Room</b>	<b>\$250.00</b>
<b>Junior Suite</b>	<b>\$270.00</b>
<b>Catalina Casita Suites</b>	<b>\$315.00</b>

**Note:** The above rates are European plan (no meals included) and are subject to applicable state and local taxes, which are currently 15.05% and are subject to change.

**OPTIONAL RESORT VALUE PACK:** The resort offers an optional value pack at a daily fee of \$12.00 per room, plus applicable tax. The value pack includes Guest Room High Speed Internet Access, Fitness Center Admittance, Valet Parking, Local Phone calls up to 59 minutes daily, golf club rentals with purchase of 9 holes of golf at Pusch Ridge, and when purchasing one hour of court time at the Tennis Center, you will get the second hour at no charge.

**REGISTER EARLY**

**Early registration is recommended. The Hilton Tucson El Conquistador Golf & Tennis 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](http://www.maoa.org)). This allows MAOA members first choice of these rooms. Reservation requests from MAOA members will be given priority until March 7, 2011. 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](http://www.maoa.org)) to register for the meeting and reserve a hotel room. Click on "2011 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 7, 2011, or earlier if all hotel space has been allocated.

### HOTEL DEPOSIT

**A deposit of one night's room and tax charges or credit card information authorizing the deposit will be required from each individual at the time of reservation. All deposits for individual room reservations are fully refundable up to seven (7) days in advance of your arrival date. Personal checks, money orders, or a valid American Express, Visa, MasterCard, or Discover credit card number and expiration date will be needed for the deposit. All credit cards used for deposit will be charged immediately when making the reservation.**

**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 will be charged an early checkout fee of \$50.00.**

### HOTEL CANCELLATION POLICY

Guest room reservations may be canceled up to seven (7) days or more prior to the arrival date without penalty. Guest room reservations canceled within seven (7) days of arrival will be charged one night's room and tax. In the event a reservation is not canceled with the Hotel, and a guest does not check in on the confirmed arrival date, the guest 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.

### MEETING REISTRATION FEE CANCELLATION POLICY

Full meeting registration fees (less \$35.00 administrative fee) will be refunded if notice is received by March 7, 2011. All meeting cancellations must be received in writing. No refund of meeting registration fee will be granted if notice is received March 8, 2011, or later.

## GROUND TRANSPORTATION

### AIRPORT/HOTEL TRANSPORTATION

#### To/From Tucson International Airport (TUC)

The Hilton El Conquistador Golf and Tennis Resort is located on the northeast side of Tucson, 22 miles from the Tucson International Airport, approximately 45 minutes driving time. Transportation options from the Tucson airport to the Hilton El Conquistador Resort are car rentals, cab service, or shuttle service provided by Arizona Stagecoach. These services are available at the Tucson International Airport main terminal. Cab fare to the resort is approximately \$65.00 excluding driver gratuity. Arizona Stagecoach is similar to Super Shuttle and is a multi-stop shuttle where the Hilton El Conquistador Resort is the last stop on the way from the airport and the first stop on the way to the airport. Currently their cost is approximately \$48.00 per person each way excluding driver gratuity.

In addition to the above options, the Hilton El Conquistador Resort will provide transfer service to/from the airport specifically for the Mid-America Orthopaedic Association Annual Meeting. Cost for the transfer service is \$45.00 + \$6.77 tax = \$51.77 per person or couple each way. This does not include driver gratuity.

Charges for transportation provided by Hilton can be charged to your guestroom or to a credit card. The hotel accepts American Express, Diners Club, Visa, MasterCard, and Discover cards. **If you wish to take advantage of the Hilton transportation option, the transfer service needs to be arranged five (5) days in advance. Drivers and vehicles are scheduled based on guest arrival/departure information and are not available on-call at the airport. Please contact Ann Bridges at the Hilton El Conquistador Golf & Tennis Resort at (520) 544-1210 or via e-mail at [ann.bridges@hilton.com](mailto:ann.bridges@hilton.com).**

## CAR RENTALS

Special MAOA car rental rates are available with **Avis** on the MAOA web site ([www.maoa.org](http://www.maoa.org)) or by calling Avis at (800) 331-1600 and referring to discount code # J907612. Self-parking at the resort is free of charge. Valet parking is included in the Resort Value Pack or available at the present rate of \$11.00 daily.

## WEATHER

Tucson has over 300 days of sunshine each year, the most of any other city in the United States. The average temperature in April is 80 degrees during the day and the evening temperatures can drop to a low of about 55 degrees. April is normally a very dry month with the average rainfall less than one-half inch. Truly a perfect time to visit.

## SUGGESTED CLOTHING

Business attire is recommended when presenting a podium or poster presentation. Casual dress will be the appropriate attire for all Mid-America activities. Comfortable and elegant casual resort wear best describes the customary dress for all evening functions as well as the hotel restaurants. We do suggest you pack a sweater or light jacket for the cool breezy evenings.

## HOTEL DINING

You are free to dine on your own on Thursday and Saturday. No stay is complete without a true taste of the Southwest, featured at each of the four distinctive restaurants. Enjoy a night of mesquite-grilled entrees, live music, or try some Latino cuisine while relaxing in an open-air setting and watching the sun set into the mountains. Dining can be as diverse as your every mood; from sandwiches Poolside at Desert Springs, to enjoying the dramatic views of the Santa Catalina Mountains while you dine at Dos Locos Restaurant, where you will enjoy the true flavors of the Southwest. If you have access to an automobile, you will find an array of fine restaurants nearby or in downtown Tucson.

## SUNDANCE CAFE

Enjoy the southwestern-style menu for breakfast and lunch, with décor inspired by the natural desert offering casual dining and friendly service in a comfortable setting. Lunch may be a light fare or a hearty feast. The Chef successfully integrates southwestern regional ingredi-

ents into traditional favorite salads and sandwiches. Menu selections include appetizers, soups, salads, sandwiches, specialties, beverages, wine, beer, and desserts.

**Hours: Breakfast Daily:** 6:30 a.m. - 11:00 a.m. and **Lunch Daily:** 11:00 a.m. - 1:30 p.m.

## DOS LOCOS

Fabrics and furnishings in bright primary colors, and multi-colored lights enhance the high ceiling in a festive restaurant atmosphere where tasty margaritas and delectable specialties are served. The restaurant's patio offers a spectacular view of the Catalina Mountains. It has become a favorite spot to enjoy the house specialties, while watching the evening sunsets lighten the cliffs of Pusch Ridge to purple, orange, and pink. **Hours: Dinner Daily:** 5:00 p.m. - 11:00 p.m.

## CONQUISTADOR LOUNGE

Centered in the heart of the Resort, the Conquistador Lounge offers one of the most impressive views in Tucson making it the perfect place to relax indoors or out. They proudly brew Starbucks® coffee. Start your day with a hot cappuccino or latte with a variety of fresh pastries. Later in the evening meet friends and enjoy cocktails or the many wines by the glass and spark your appetite with a selection of appetizers. Day or night, the Conquistador Lounge has something for you! **Hours: Daily:** 6 a.m. - 12:00 midnight.

## LA VISTA CAFE

Enjoy daily lunch and Happy Hour Fridays in a casual and friendly country club atmosphere offering exceptional panorama views of the two country club golf courses and the Santa Catalina mountain range. **Hours: Daily Lunch:** 11:00 a.m. - 3:00 p.m.

## DESERT SPRINGS OASIS CANTINA

Located poolside at the resort, this casual restaurant serves lunch and a large variety of tropical drinks. **Hours vary**

## WELLNESS CENTER

Welcome to a premiere Hilton Spa experience, where tranquil elegance encourages you to lose yourself in a therapeutic environment that embraces and caresses the senses. Escape and discover new levels of relaxation in the luxurious Wellness Center. Visit Elements Spa, where expert therapists offer a wide spectrum of customized specialty services. For an appointment call (520) 544-1260 or visit [Elements Spa Services Menu](#) on the Hilton Tucson El Conquistador web site.

**Hours:** 8:00 a.m. - 8:00 p.m. seven days a week!

## FITNESS CENTER

Fitness Centers are available at both the resort and the golf center. Both Fitness Centers feature exercise classes, weight and circuit training, sauna, and massage therapy.

## TOURS AND ACTIVITIES

At the Hilton Tucson El Conquistador Golf & Tennis Resort, you can experience a wide variety of recreational activities and things to do. There really is something for everyone in Tucson.

Within the resort, you'll find plenty of things to do to keep you occupied. With the mild Tucson weather, you can enjoy the Desert Springs Oasis any time of the year. The kids will love the 143-foot "Sliderock" waterslide. The children's pool, Shallow Springs, is shaped like a fish with interactive water features in the tail. Children under the 42-inch height requirements of "Sliderock" can splash and swim in their own custom area. You can also enjoy relaxing in the hot springs and a waterfall-fed cold plunge. The pools are for exclusive use by all guests.

Enjoy playing golf on three championship golf courses, enjoy a game of tennis, or a horse-back ride through the scenic Santa Catalina Mountains. Then keep fit in the gym, unwind with a specialty spa treatment and more at the Wellness Center.

## AREA ATTRACTIONS

These are just a few of the many attractions and activities in the Tucson area. Check with the concierge for more information, directions, or reservations.

- Tohono Chul Park
- University of Arizona's Biosphere 2 Center
- Arizona-Sonora Desert Museum
- Saguaro National Park East
- Pima Air and Space Museum
- Mission San Xavier del Bac
- Old Tucson Studios
- Mount Lemmon

### EXCLUSIVE MAOA ACTIVITIES

#### SABINO CANYON AND DEGRAZIA'S GALLERY TOUR

**Friday, April 8, 2011**

**1:30 p.m. - 5:30 p.m.**

**\$80.00 per person**

Treat yourself to a breathtaking outdoor tram ride through Sabino Canyon. Tucked away in the foothills of the Santa Catalina Mountains, it offers views of sparkling mountain streams and majestic mountains. Sabino Canyon is a sight not to be missed by nature lovers or anyone who enjoys the great outdoors.

A Tucson landmark, DeGrazia's Gallery in the Sun welcomes thousands of visitors each year. Renowned Arizona Master DeGrazia designed this gallery to house his works. The gallery displays adobe construction and beautiful decorative features as well as DeGrazia's art. It is a uniquely southwest place to explore, browse, and shop before returning to the resort by 5:30 p.m.

## CHAMPIONSHIP GOLF

If you're a keen golfer, you'll be thrilled to hear that the Hilton Tucson El Conquistador Golf & Tennis Resort is the largest and most popular golf resort in Tucson and one of the best in Arizona. The Resort offers 45 holes of championship golf on three exceptional, pristine courses. Whether you're a beginner or pro, the courses provide challenging, exciting play with course enhancements by the original architect, Greg Nash, to provide the highest quality throughout this Southwest resort. Right at the resort, the nine-hole Pusch Ridge Course winds, dips, and climbs through a 175-foot vertical drop in the foothills with a challenging 2,788-yard layout. The Conquistador and Cañada Courses can be reached via complimentary shuttle service, and each offers a traditional layout in a spectacular setting.

### MAOA GOLF TOURNAMENT – SCRAMBLE FORMAT

Tournament registration can be done via the MAOA web site ([www.maoa.org](http://www.maoa.org)). The tournament is scheduled as follows:

<b>Friday, April 8, 2011</b>	<b>1:30 p.m.</b>
<b>Country Club Conquistador Course</b>	<b>\$80.00 per person</b>

## TENNIS

The Hilton Tucson El Conquistador is ranked as one of the top tennis resorts in the country by the USTA. In fact, they host the Copper Bowl, one of the nation's top junior tennis tournaments. Play any time of day, any day of the year on 31 lighted courts.

### MAOA TENNIS TOURNAMENT

Tournament registration can be done via the MAOA web site ([www.maoa.org](http://www.maoa.org)). The tournament is scheduled as follows:

<b>Thursday, April 7, 2011</b>	<b>2:00 p.m.</b>
<b>Hilton El Conquistador Tennis Courts</b>	<b>\$45.00 per person</b>

## SHOPPING

There is shopping for everyone in the areas listed below.

### La Encantada

This distinctively Tucson plaza, just 15 minutes from the Resort, is home to an exquisite collection of art galleries, fashion boutiques, and several exceptional restaurants.

### Old Town Artisans

Located in the historic El Presidio neighborhood, 25 minutes from the Resort and adjacent to the Tucson Museum of Art, this adobe complex filled with galleries and shops occupies an entire city block.

### Tubac

Arizona's oldest European settlement is just one hour from the resort. Tubac was once the site of a Spanish presidio. It is now a thriving artists' community with more than 80 unusual shops and galleries of crafts and original fine art accompanied by several restaurants to satisfy any culinary craving.

## **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 7; Friday, April 8; and Saturday, April 9. The Category 1 credits earned by attending the Breakout Sessions are included in the total number awarded by our 2011 Annual Meeting.

## **INSTRUCTIONAL COURSES**

Instructional Courses have been scheduled for Thursday, April 7; Friday, April 8; and Saturday, April 9. There is no additional cost to attend these courses. Please indicate your attendance at these four instructional courses when you register so plans can be made accordingly. Continuing medical education credit for the instructional courses is included in the 30 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 7; Friday, April 8; and Saturday, April 9. 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:**

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Kahler Mezzanine Level  
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Rochester, MN 55902-3013  
Telephone: (507) 281-3431  
Fax: (507) 281-0291  
e-mail: [midamerica@maoa.org](mailto:midamerica@maoa.org)  
Web Site: [www.maoa.org](http://www.maoa.org)

**FUTURE MEETINGS**

April 6-10, 2011	Hilton Tucson El Conquistador Tucson, AZ
April 18-22, 2012	Hyatt Regency Coconut Point Bonita Springs, FL
April 17-21, 2013	Amelia Island Plantation Amelia Island, FL

## Notes

**MAOA 2011 ANNUAL MEETING AT A GLANCE • Hilton**

<b>Wednesday, April 6</b>	<b>Thursday, April 7</b>
<p>REGISTRATION Turquoise Foyer Satellite Desk 7:00 a.m. - 8:00 p.m.</p> <p>MAOA/ICJR PRE-MEETING COURSE Back to the Basics: Hip and Knee Arthroplasty Coronado I 8:00 a.m. - 4:30 p.m.</p>	<p>REGISTRATION Turquoise Foyer Satellite Desk 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Joshua I 6:00 a.m. - 1:00 p.m.</p> <p>INSTRUCTIONAL COURSE I Coronado I 6:30 a.m. - 8:00 a.m.</p> <p>EXHIBITS/POSTERS OPEN Turquoise I-II/Turquoise and Presidio Foyers 7:30 a.m. - 12:30 p.m.</p> <p>PLENARY SESSION Turquoise III 8:05 a.m. - 10:03 a.m.</p> <p>SPOUSE/GUEST HOSPITALITY Dos Locos 8:30 a.m. - 10:30 a.m.</p> <p>SPOUSE/GUEST WELCOME Dos Locos 9:30 a.m.</p> <p>SPOUSE/GUEST PROGRAM Dos Locos 9:45 a.m. - 10:30 a.m.</p> <p>FIRST BUSINESS MEETING Turquoise III 10:04 a.m. - 10:30 a.m.</p> <p>BREAKOUT SESSIONS 11:00 a.m. - 12:45 p.m.</p>
<p>SPEAKER READY ROOM Joshua I 12:00 Noon - 8:00 p.m.</p> <p>MAOA/ICJR BIOSKILLS WORKSHOP 2:30 p.m. - 4:30 p.m.</p> <p>BOARD OF DIRECTOR SPOUSE GATHERING Presidential Suite 4:00 p.m.</p> <p>BOARD OF DIRECTORS' MEETING Canyon Suites I-II 5:00 p.m.</p> <p>EXHIBIT (COMPANY REP) MEETING Turquoise I-II 6:30 p.m.</p>	<p>MULTIMEDIA EDUCATION Joshua I 1:00 p.m. - 3:00 p.m.</p> <p>MID-AMERICA TENNIS TOURNAMENT Hilton El Conquistador Tennis Courts 2:00 p.m.</p>
<p>WELCOME RECEPTION AND BUFFET Sundance Courtyard 7:00 p.m. - 9:00 p.m.</p>	<p>EXHIBITORS' RECEPTION Turquoise I-II/Turquoise and Presidio Foyers 6:00 p.m. - 7:30 p.m.</p> <p>DINNER AT LEISURE</p>

**on Tucson El Conquistador Resort • Tucson, Arizona**

Friday, April 8	Saturday, April 9	Sunday, April 10
<p>REGISTRATION Turquoise Foyer Satellite Desk 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Joshua I 6:00 a.m. - 1:00 p.m.</p> <p>INSTRUCTIONAL COURSE II Coronado I 6:30 a.m. - 8:00 a.m.</p> <p>EXHIBITS/POSTERS OPEN Turquoise I-II/Turquoise and Presidio Foyers 7:30 a.m. - 12:30 p.m.</p> <p>PLENARY SESSION Turquoise III 8:00 a.m. - 10:28 a.m.</p> <p>BREAKOUT SESSIONS 11:00 a.m. - 12:30 p.m.</p>	<p>REGISTRATION Turquoise Foyer Satellite Desk 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Joshua I 6:00 a.m. - 1:00 p.m.</p> <p>INSTRUCTIONAL COURSES IC III – Coronado I IC IV – Agave Ballroom 6:30 a.m. - 8:00 a.m.</p> <p>EXHIBITS/POSTERS OPEN Turquoise I-II/Turquoise and Presidio Foyers 7:30 a.m. - 12:30 p.m.</p> <p>SECOND BUSINESS MEETING Turquoise III 8:00 a.m. - 8:10 a.m.</p> <p>PLENARY SESSION Turquoise III 8:10 a.m. - 10:00 a.m.</p> <p>BREAKOUT SESSIONS 10:30 a.m. - 12:21 p.m.</p>	<p>Departures</p>
<p>MULTIMEDIA EDUCATION Joshua I 1:00 p.m. - 3:00 p.m.</p> <p>MID-AMERICA GOLF TOURNAMENT Country Club Conquistador Course 1:30 p.m.</p> <p>OPTIONAL TOUR Sabino Canyon/DeGrazia's Gallery 1:30 p.m.</p>	<p>BOARD OF DIRECTORS' MEETING Canyon Suites I-II 12:45 p.m.</p> <p>MULTIMEDIA EDUCATION Joshua I 1:00 p.m. - 3:00 p.m.</p>	
<p>STEEL LECTURE Turquoise III 6:30 p.m. - 7:30 p.m.</p> <p>DINNER/DANCE Last Territory 7:30 p.m. - 10:00 p.m.</p>	<p>DINNER AT LEISURE</p>	

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## **FUTURE MEETINGS**



**April 6-10, 2011**

**Hilton Tucson El Conquistador  
Tucson, Arizona**

**April 18-22, 2012**

**Hyatt Regency Coconut Point  
Bonita Springs, Florida**

**April 17-21, 2013**

**Omni Amelia Island Plantation  
Amelia Island, Florida**