

MID-AMERICA ORTHOPAEDIC ASSOCIATION



Thirty-Third Annual Meeting

April 22-26, 2015

The Westin Hilton Head Island Resort
Hilton Head Island, South Carolina



Preliminary Program and Registration Information

Visit www.maoa.org to register online
Registration Deadline – March 19, 2015

Pre-Meeting Course – Wednesday, April 22, 2015
“The Athlete’s Knee:
Meniscus, Ligament, Cartilage, and Patellofemoral”

Dear Colleagues,

The highlight of the year for the Mid-America Orthopaedic Association is the annual meeting, so it is my pleasure to announce the preliminary program for 2015. It promises to be a great meeting in a fantastic location. Hilton Head in late April should be prime season to welcome us from the Mid-America region. The Westin at the Port Royal Plantation is on the beach, and the facilities are perfect for the meeting. A championship tennis center and three golf courses at Port Royal will be ready to test our members and guests.

But most important to the meeting will be the outstanding scientific program put together by Brian Wolf, the Program Chair. In addition to breakouts, plenary papers, and award papers featuring some of the latest research in the Mid-America region, there will be symposia in each of the three plenary sessions. These will be on controversies in fracture care moderated by Marc Swiontkowski with talks from Classics Speakers, Jim Kellam and Doug Dirschl, (Thursday); the future of healthcare moderated by the Presidential Guest Speaker, Stuart Weinstein, with a talk from the Rapp Lecturer, Josh Jacobs, (Friday); and treatment of unicompartmental knee disease moderated by Craig Della Valle (Saturday). These symposia with synthesized information will be added to our already outstanding research meeting and they will be the major difference to our standard format. The Program Committee will be interested in your feedback on this variation in format. Similar to last year, there will be afternoon sessions – Thursday on fracture cases and on Friday, Craig Mahoney will moderate a session on practice management.

The guest speakers are absolutely outstanding and they will enhance our meeting and enrich the program. I am thrilled they have agreed to join us. They are all leading figures in orthopedic surgery and personal friends of mine. They will speak on subjects where they are national and international experts, and in addition to their featured talk, they will all participate in other areas of the program that I have highlighted in this letter.

2015 Mid-America Guest Speakers:

Dr. Stuart Weinstein (Presidential Guest Speaker): “Healthcare Reform: The Right Diagnosis; How is the Patient Doing?”

Dr. Josh Jacobs (Rapp Lecturer): “Tribocorrosion: Concepts and Clinical Ramifications”

Dr. Doug Dirschl (Classics Speaker): “Bone Health and Fragility Fractures: How Can Something So Simple Be So Difficult?”

Dr. Chris Harner (Classics Speaker): “How I Manage the Multiple Ligament Injured Knee”

Dr. Jim Kellam (Classics Speaker): “Fracture Care – The Evolution of Operative Care”

The Steel Lecturer on Friday evening will be Iowa wrestling icon, Olympic gold medal winner, and one of the greatest coaches in NCAA history, Dan Gable. Dan’s insights into what it takes to persevere, overcome obstacles, and succeed at the highest levels should not be missed.

Resident participation will be another highlight of the 2015 meeting. We have 259 scientific podium and 114 poster presentations on the program, and we estimate that two-thirds of them will be given by residents – most of whom will be supported to attend by Mid-America residency programs and by MAOA resident grants. Residents presenting their research is a core feature of the Mid-America meeting. In addition to Brian, I would like to thank the Program Committee members Drs. Craig Della Valle, Jeffrey Macalena, Benjamin Miller, Amy Moeller, and Michael Taunton who reviewed and graded all of the abstracts.

Dr. Jeffrey Macalena has put together a great pre-meeting course which will take place on Wednesday. The topic will be “The Athlete’s Knee: Meniscus, Ligament, Cartilage, and Patellofemoral” and in addition to great speakers from the Mid-America region, one of the Classics Speakers, Chris Harner, will join the program. I hope many of you will want to spend an additional day in Hilton Head and put this outstanding program on your schedule. I bet you will be glad you did!

That is the plan for April 2015. Look through the attached program and mark your schedule. Linda and I will look forward to seeing you in Hilton Head. It will be a great meeting!



J. Lawrence Marsh, M.D.

President

Mid-America Orthopaedic Association

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REGISTRATION INFORMATION

**Registration for the 2015 Annual Meeting
will be done online through Mid-America's web site.
Please visit www.maoa.org
to register for the meeting and reserve a hotel room.
Make plans early to attend a great meeting.**

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

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

The American Academy of Orthopaedic Surgeons designates this live activity for a maximum of 33* *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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

****17.5 CME Credits for Scientific Program***

****2.5 CME Credits for Scientific Poster Sessions***

****2 CME Credits for Ask the Expert***

****2 CME Credit for Practice Management Course***

OBJECTIVES

- Objective 1: Provide information on healthcare reform and its impact on various aspects of the field of orthopedic surgery.
- Objective 2: Discuss indications for surgical management of sports-related injuries to the upper extremity and knee.
- Objective 3: Provide information on, and discuss indications for, partial knee replacement.
- Objective 4: Provide an overview of recent technical advances in the area of musculo-skeletal trauma and reconstructive surgery.
- Objective 5: Provide a review and technical tips on the treatment of the multiple ligament injured knee.
- Objective 6: Review the current challenges and latest information regarding musculo-skeletal tumor surgery, pediatric orthopedics, hand, and foot and ankle surgery.
- Objective 7: Describe state of the art treatment for pediatric, traumatic, and degenerative spine disorders.
- Objective 8: Describe the current techniques and outcomes after hip joint preservation surgery.
- Objective 9: Understand the indications, surgical techniques, and outcomes of shoulder arthroplasty.
- Objective 10: Describe state of the art treatment for traumatic and degenerative shoulder disorders.
- Objective 11: Discuss current research across specialty fields of orthopedic surgery to encourage further improvements in surgery to benefit patient outcomes.
- Objective 12: Discuss advances in orthopedic resident education programs and surgical skill training programs.

Mid-America Orthopaedic Association would like to recognize and thank the following for their time and effort in reviewing the abstracts for the 2015 scientific program.

Program Committee

Brian R. Wolf, M.D., M.S.
Craig J. Della Valle, M.D.
Jeffrey A. Macalena, M.D.
Benjamin J. Miller, M.D.
Amy T. Moeller, M.D.
Michael J. Taunton, M.D.

Ad Hoc Reviewers

Ajay Aggarwal, M.D.
William W. Cross, III, M.D.
Gregory J. Della Rocca, M.D.
David G. Dennison, M.D.
John E. Femino, M.D.
Mark I. Froimson, M.D.
Gregory P. Graziano, M.D.
Anthony F. Guanciale, M.D.
Ginger E. Holt, M.D.
Matthew D. Karam, M.D.
Aaron J. Krych, M.D.
A. Noelle Larson, M.D.
Ericka A. Lawler, M.D.
Gregory N. Lervick, M.D.
Craig R. Mahoney, M.D.

David C. Markel, M.D.
Andrew D. Markiewitz, M.D., M.B.A.
Christopher M. McAndrew, M.D.
Robert F. McLain, M.D.
Joseph A. Morcuende, M.D., Ph.D.
Nicolas O. Noiseux, M.D.
Lukas M. Nystrom, M.D.
Erik T. Otterberg, M.D.
L. Joseph Rubino, M.D.
Vani J. Sabesan, M.D.
Scott M. Sporer, M.D.
Thomas W. Throckmorton, M.D.
Brian C. Toolan, M.D.
Norman S. Turner, M.D.
Scott D. Weiner, M.D.

DISCLAIMER

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

MID-AMERICA ORTHOPAEDIC ASSOCIATION

PRELIMINARY PROGRAM

Thirty-Third Annual Meeting

April 22-26, 2015

TUESDAY, APRIL 21, 2015

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

WEDNESDAY, APRIL 22, 2015

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

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

**“The Athlete’s Knee: Meniscus, Ligament, Cartilage, and Patellofemoral”
Pre-meeting course jointly sponsored by Mid-America Orthopaedic Association and the International Congress for Joint Reconstruction**

**Course Chair: Jeffrey A. Macalena, M.D.
Minneapolis, MN**

OBJECTIVES

1. Update and consolidate knowledge on the evaluation and treatment of meniscus pathology including meniscectomy, meniscus repair, and allograft transplantation.
2. Update and consolidate knowledge on the evaluation, treatment, and management of ACL injuries
3. Update and consolidate knowledge on the management of PCL, collateral ligament, and multi-ligament injuries about the knee
4. Review indications and techniques for cartilage reconstruction about the knee
5. Update and consolidate knowledge on the evaluation and treatment of patellofemoral disorders including chondrosis and instability

Meniscus

*Jeffrey A. Macalena, M.D., Moderator
Minneapolis, MN*

- Meniscus Structure and Function, Imaging, Arthroscopic Correlation
David E. Hamming, M.D.
Gurnee, IL
- Meniscectomy Techniques, Tips, and Long-Term Consequences
Marc Tompkins, M.D.
Minneapolis, MN
- Meniscus Repair Medial and Lateral Techniques
Geoffrey S. Baer, M.D.
Madison, WI

- Discoid Meniscus
Robert A. Magnussen, M.D., M.P.H.
Columbus, OH
- How I Manage Meniscal Root Tears
Christopher D. Harner, M.D.
Pittsburgh, PA
- Meniscus Allograft Transplantation
Aaron J. Krych, M.D.
Rochester, MN

Ligament

*Christopher D. Harner, M.D., Moderator
Pittsburgh, PA*

- Selecting a Graft for ACL Reconstruction
Jonathan M. Cooper, D.O.
St. Paul, MN
- ACL Reconstruction Surgical Technique: Tunnel Placement
Bradley J. Nelson, M.D.
Minneapolis, MN
- Complications of ACL Reconstruction
Brian R. Wolf, M.D., M.S.
Iowa City, IA
- Revision ACL Reconstruction
Annunziato Amendola, M.D.
Iowa City, IA
- Advances in Posterior Cruciate Ligament Reconstruction
Bruce A. Levy, M.D.
Rochester, MN
- Medial-Sided Knee Injuries: The MCL et al
Jonathan M. Cooper, D.O.
St. Paul, MN
- Injuries to the Fibular Collateral Ligament and Posterolateral Corner
Jeffrey A. Macalena, M.D.
Minneapolis, MN
- Management of the Multiligament Injured/Dislocated Knee
Bruce A. Levy, M.D.
Rochester, MN

Cartilage

*Annunziato Amendola, M.D., Moderator
Iowa City, IA*

- Articular Cartilage Structure and Function, Imaging, Arthroscopic Correlation
Timothy Miller, M.D.
Columbus, OH
- Osteochondritis Dissecans (OCD)
Brian R. Wolf, M.D., M.S.
Iowa City, IA

(continued on next page)

- Malalignment and Osteotomy
Geoffrey S. Baer, M.D.
Madison, WI
- Chondroplasty and Microfracture Techniques and Outcomes
David E. Hamming, M.D.
Gurnee, IL
- Cellular Based Cartilage Reconstructions
Jeffrey A. Macalena, M.D.
Minneapolis, MN
- Structural Reconstructions – Auto and Allograft OATS
Bradley J. Nelson, M.D.
Minneapolis, MN
- Comparison and Long-Term Outcomes of Cartilage Restoration
Aaron J. Krych, M.D.
Rochester, MN

Patellofemoral – Anterior Knee Pain/Patellar Overload

Elizabeth A. Arendt, M.D., Moderator
Minneapolis, MN

- Patellofemoral Instability
Robert A. Magnussen, M.D., M.P.H.
Columbus, OH
- Patellofemoral Imaging
Elizabeth A. Arendt, M.D.
Minneapolis, MN
- Soft Tissue Procedures – MPFL, VMO Advancement
Timothy Miller, M.D.
Columbus, OH
- Tibial Tubercle Osteotomies
Marc Tompkins, M.D.
Minneapolis, MN
- Trochleaplasty
Elizabeth A. Arendt, M.D.
Minneapolis, MN
- Complications of Patellofemoral Surgery
Annunziato Amendola, M.D.
Iowa City, IA

Join us one day prior to the MAOA Annual Meeting for this CME event of didactic lectures, case studies, interactive audience discussions, and bioskills workshops. Fee: \$250 for practicing orthopedists and \$150 for residents, fellows, medical students, and allied health. To register, visit the MAOA web site (www.maoa.org). Click on “2015 Annual Meeting”. 9 Category 1 CME credits will be offered for this one-day course. For more information, go to the ICJR (www.icjr.net) or MAOA (www.maoa.org) web sites.

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

6:30 p.m.
Exhibitors' Meeting

7:00 p.m. - 9:00 p.m.
Welcome Reception and Buffet
Price: Included in Registration Fee for doctors, allied health, and registered spouses/guests
Exhibitor cost: \$150/person
Attire: Casual
A special children's buffet will be available for \$30/child (ages 5-11). Children's tickets may be purchased via the MAOA web site when registering for the meeting.

THURSDAY, APRIL 23, 2015

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

6:30 a.m. - 8:00 a.m.
INSTRUCTIONAL COURSE I – Proximal Humerus Fractures in the Elderly: How Do I Know What Makes Sense?

Continental breakfast will be available

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

Christopher R. Chuinard, M.D., M.P.H.
Traverse City, MI

Carolyn M. Hettrich, M.D., M.P.H.
Iowa City, IA

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

Objectives:

1. Identify patients and fracture patterns for which ORIF is appropriate
2. Discuss augmentation strategies and when use is appropriate
3. Articulate the fracture type and clinical scenario appropriate for shoulder replacement surgery

Proximal humerus fractures in the elderly are a common injury seen at most hospitals. There have been advances in the treatment strategies of these fractures. This interactive session will help the surgeon make sense of surgical fixation vs. replacement techniques and strategies.

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

INSTRUCTIONAL COURSE II – What Do I Do When My Traumatologist is on Vacation...

Continental breakfast will be available

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

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

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

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

This will be a series of presentations combining didactic lectures and technique videos. The goals are to present very practical, succinct pearls on helping the general orthopedic surgeon care for the polytrauma patient when such a patient presents to their emergency unit. We plan to keep the didactic lecture time to a relative minimum and use case-based and video-based vignettes. We hope to ensure that the participants leave with the skills necessary to assess accurately, emergently intervene appropriately, and stabilize for transfer adequately. The last third of the session will be dedicated to two audience participation cases of polytrauma victims where we hope to interact with them as both educators and “acceptors of referral patients”, if you will.

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)

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

Spouse/Guest Hospitality
Breakfast

9:30 a.m. - Welcome by Linda Marsh

FIRST PLENARY SESSION

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

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

Introductory Remarks

J. Lawrence Marsh, M.D.
Iowa City, IA

President, Mid-America Orthopaedic Association

8:05 a.m. - 8:15 a.m.

MAOA Presidential Address
J. Lawrence Marsh, M.D.
Iowa City, IA

8:15 a.m. - 9:08 a.m.

SYMPOSIUM I – Updates and Controversies for Common Fractures

Marc F. Swiontkowski, M.D., Moderator
Minneapolis, MN

“Tibial Plateau”

Douglas R. Dirschl, M.D.
Chicago, IL

“Distal Femur”

James F. Kellam, M.D.
Houston, TX

“Treatment Updates of Common Ankle Fracture”

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

“Bone Graft Substitutes in Extremity Trauma”

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

9:09 a.m. - 9:42 a.m.

1. Total Joint Arthroplasty in Patients with Chronic Renal Disease: Is it Worth the Risk?

*Lucian C. Warth, M.D.
Iowa City, IA

Andrew J. Pugely, M.D.
Iowa City, IA

Christopher T. Martin, M.D.
Iowa City, IA

Yubo Gao, Ph.D.
Iowa City, IA

Nicolas O. Noiseux, M.D.
Iowa City, IA

John J. Callaghan, M.D.
Iowa City, IA

2. Periarticular Injection Following TKA Using Liposomal Bupivacaine vs. a Modified Ranawat Suspension. A Prospective, Randomized Study
*Philip N. Collis, M.D.
Louisville, KY
Allison Hunter, B.S.
Louisville, KY
Derek Vaughn, M.D.
Louisville, KY
Langan Smith, B.S.
Louisville, KY
Leah Carreon, M.D.
Louisville, KY
Jiapeng Huang, M.D.
Louisville, KY
Jeffrey Stimac, M.D.
Louisville, KY
Arthur L. Malkani, M.D.
Louisville, KY
3. What Safe Zone? The Majority of 224 Dislocated THA were within the Lewinnek Zone
*Matthew P. Abdel, M.D.
Rochester, MN
Philipp von Roth, M.D.
Rochester, MN
Matthew T. Jennings, B.S.
Rochester, MN
Arlen D. Hanssen, M.D.
Rochester, MN
Mark W. Pagnano, M.D.
Rochester, MN
4. Does Prior Cartilage Restoration Negatively Impact Outcomes of Knee Arthroplasty?
Rachel M. Frank, M.D.
Chicago, IL
Darren Plummer, M.S.
Chicago, IL
Peter N. Chalmers, M.D.
Chicago, IL
Scott M. Sporer, M.D.
Winfield, IL
Brett R. Levine, M.D.
Chicago, IL
Brian J. Cole, M.D.
Chicago, IL
*Craig J. Della Valle, M.D.
Chicago, IL

9:43 a.m. - 10:13 a.m.

CLASSICS IN ORTHOPAEDICS
How I Manage the Multiple Ligament Injured Knee
Christopher D. Harner, M.D.
Pittsburgh, PA

10:14 a.m. - 10:19 a.m.

Introduction of Recipients of Multipurpose Resident Grants and Education Grants

10:20 a.m. - 10:30 a.m.

Historian's Report
Thomas L. Schmidt, M.D.
Prairie Village, KS

10:30 a.m. - 10:40 a.m.

First Business Meeting
(MAOA Members only)

10:30 a.m. - 11:00 a.m.

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

10:30 a.m. - 11:00 a.m.

Coffee Break in Exhibit Area

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

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

BREAKOUT SESSION #1 **HAND/ELBOW**

11:00 a.m. - 1:00 p.m., Thursday, April 23, 2015

5. An Analysis of Capitate and Lunate Morphology to Predict Long-Term Outcomes in Proximal Row Carpectomy
Eric R. Wagner, M.D.
Rochester, MN
*Dalibel Bravo, M.D.
New York, NY
Bassem T. Elhassan, M.D.
Rochester, MN
Steven L. Moran, M.D.
Rochester, MN

6. Anatomic Study of the Lunate Fossa, Proximal Lunate, and Proximal Capitate as it Relates to Proximal Row Carpectomy
Eugene Y. Tsai, M.D.
Cleveland, OH
*Rodrigo A. Iglesias, M.S.
Cleveland, OH
William Z. Morris, M.D.
Cleveland, OH
James R. Anderson, M.D.
Cleveland, OH
7. Long-Term Results of Radioscapholunate Wrist Fusion
*Maureen A. O'Shaughnessy, M.D.
Rochester, MN
Steven L. Moran, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Bassem T. Elhassan, M.D.
Rochester, MN
8. Pyrocarbon in Proximal Interphalangeal Arthroplasty: A Longitudinal Analysis of 193 Cases
Eric R. Wagner, M.D.
Rochester, MN
T. David Luo, M.D.
Rochester, MN
Matthew T. Houdek, M.D.
Rochester, MN
Steven L. Moran, M.D.
Rochester, MN
*Marco Rizzo, M.D.
Rochester, MN
9. Revision Metacarpophalangeal Arthroplasty: 128 Consecutive Cases
Eric R. Wagner, M.D.
Rochester, MN
Matthew T. Houdek, M.D.
Rochester, MN
*Robert E. Van Demark, III, M.D.
Rochester, MN
Steven L. Moran, M.D.
Rochester, MN
Marco Rizzo, M.D.
Rochester, MN
10. An Outcome Analysis of 75 Consecutive Cases of Revision Proximal Interphalangeal Arthroplasty
Eric R. Wagner, M.D.
Rochester, MN
Matthew T. Houdek, M.D.
Rochester, MN
*John Weston, M.D.
Rochester, MN
Steven L. Moran, M.D.
Rochester, MN
Marco Rizzo, M.D.
Rochester, MN
11. Dorsal Screw Penetration with the Use of Volar Plating of Distal Radius Fractures: How Can You Best Detect?
Brian Hill, M.D.
St. Louis, MO
*Irshad A. Shakir, M.D.
St. Louis, MO
Lisa K. Cannada, M.D.
St. Louis, MO
12. The Use of an iPad to Evaluate Patient-Reported Functional Outcome Measures in Hand Surgery
*Mark A. Yaffe, M.D.
Indianapolis, IN
Nitin Goyal, B.S.
Chicago, IL
Daniel Kokmeyer, M.D.
Indianapolis, IN
Gregory A. Merrell, M.D.
Indianapolis, IN
13. Epidemiologic Dynamics Contributing to U.S. Pediatric Wrist Fractures
*Neil S. Shah, M.D.
Detroit, MI
David Buzas, M.D.
Detroit, MI
Ephraim M. Zinberg, M.D.
Detroit, MI
14. Characterizing Bone Mineral Density Using CT Attenuation Following Distal Radius Fractures
Mark Arnold
Minneapolis, MN
Osa Emohare, Ph.D.
Minneapolis, MN
*Christina M. Ward, M.D.
Minneapolis, MN

15. The Risk of Revision Surgery After Primary Total Elbow Arthroplasty: A Review of 1,261 Elbows Over 4 Decades

Suenghwan Jo, M.D.
Rochester, MN
Bernard F. Morrey, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
*Mark E. Morrey, M.D.
Rochester, MN

16. Total Elbow Arthroplasty in Patients Under Age 50: A 15-Year Mean Follow-Up Study

Peter L. Kok, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN
Bernard F. Morrey, M.D.
Rochester, MN
*Joaquin Sanchez-Sotelo, M.D.
Rochester, MN

17. Single-Stage Bilateral Total Elbow Arthroplasty is Safe, Reliable, and Cost-Effective in Rheumatoid Arthritis

Suenghwan Jo, M.D.
Rochester, MN
*Akin Cil, M.D.
Kansas City, MO
J. Michael Wiater, M.D.
Royal Oak, MI
Shawn W. O'Driscoll, M.D.
Rochester, MN
Bernard F. Morrey, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN

18. Total Elbow Arthroplasty for Primary Osteoarthritis

*Bradley S. Schoch, M.D.
Rochester, MN
Jean David Werthel, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
Bernard F. Morrey, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN

BREAKOUT SESSION #2

SPORTS

11:00 a.m. - 1:00 p.m., Thursday, April 23, 2015

19. Conventional Plate Fixation vs. PEEK Intraosseous Implant in Proximal Tibial Osteotomy

*Mario Hevesi, B.S.
Minneapolis, MN
Elizabeth A. Arendt, M.D.
Minneapolis, MN
Jeffrey A. Macalena, M.D.
Minneapolis, MN

20. Surgical Treatment of Multiligament Knee Injuries

*Shane Cook, M.D.
Iowa City, IA
T. J. Ridley, M.D.
Iowa City, IA
Matthew J. Bollier, M.D.
Iowa City, IA
Mark A. McCarthy, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
Brian R. Wolf, M.D., M.S.
Iowa City, IA
Annunziato Amendola, M.D.
Iowa City, IA

21. The Use of Bone Marrow Concentrate and Demineralized Bone Matrix in the Treatment of Osteochondritis Dissecans

*Paul R. Fleissner, Jr., M.D.
Akron, OH

22. Subacute Effects of Local Anesthetics on Human Chondrocytes In Vitro in an Alginate Bead Model

*Jon B. Carlson, M.D.
Detroit, MI
Nancy M. Jackson, Ph.D.
Southfield, MI
Jeffrey C. Flynn, Ph.D.
Southfield, MI
David C. Markel, M.D.
Southfield, MI

23. The Prevalence and Combined Prevalences of Anatomic Factors Associated with Recurrent Patellar Dislocation: An MRI Study
 Robert N. Steensen, M.D.
 Columbus, OH
 Jared C. Bentley, M.D.
 Columbus, OH
 *Thai Q. Trinh, M.D.
 Columbus, OH
 Jeffrey R. Backes, M.D.
 Columbus, OH
 Roger E. Wiltfong, M.D.
 Columbus, OH
24. Medial Femoral Condyle Cartilage Defect Biomechanics: Effect of Obesity, Defect Size, and Cartilage Thickness
 *Kyle W. Lacy, M.D., M.S.
 Detroit, MI
 Allison Cracchiolo, B.S.
 Detroit, MI
 Stephen Yu, M.D.
 Detroit, MI
 Hentry T. Goitz, M.D.
 Warren, MI
25. Does Excellent Six-Month Strength and Function Following ACL Reconstruction Predict Mid-Term Outcomes?
 *Paul L. Sousa, B.S.
 Rochester, MN
 Robert A. Cates, D.O.
 Rochester, MN
 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
26. Meniscal Tears Left In Situ at the Time of Anterior Cruciate Ligament Reconstruction
 *Marcus A. Rothermich, M.D.
 St. Louis, MO
 Rick W. Wright, M.D.
 St. Louis, MO
27. Comparison of ACL Strain in the MCL Deficient and MCL Reconstructed Knee During Simulated Landing in a Cadaveric Model
 *Eric J. Mancini, M.D.
 Detroit, MI
 Stephen E. Lemos, M.D., Ph.D.
 Warren, MI
 Robert B. Kohen, M.D.
 Detroit, MI
 Amanda O. Esquivel, M.D.
 Detroit, MI
 Allison Cracchiolo, B.S.
 Detroit, MI
28. Drilling the Femoral Tunnel from a Posteromedial Portal – A Comparison of Four Drilling Techniques and the Distance from the Guidewire to Important Structures in the Knee
 Micah E. Lissy, M.D.
 Warren, MI
 Patrick M. Keating, B.S.
 Warren, MI
 Kaitlyn J. Ratkowiak, M.S.
 Warren, MI
 *Stephen E. Lemos, M.D., Ph.D.
 Warren, MI
29. Reliability of a Simple Method of Measuring Tibial Tubercle to Trochlear Groove Distance on MRI without Advanced Radiologic Software
 Christopher L. Camp, M.D.
 Rochester, MN
 Mark J. Heidenreich, B.S.
 Rochester, MN
 Diane L. Dahm, M.D.
 Rochester, MN
 Jeffery R. Bond, M.D.
 Rochester, MN
 Mark S. Collins, M.D.
 Rochester, MN
 *Aaron J. Krych, M.D.
 Rochester, MN

30. Patellar Instability Ratios: Relating Tibial Tubercle-Trochlear Groove Distance to Patient Specific Anatomy
*Mark J. Heidenreich, B.S.
Rochester, MN
Christopher L. Camp, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
Bruce A. Levy, M.D.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
31. Peroneal Neuropathy After Posterolateral Knee Injury
*Mark A. McCarthy, M.D.
Iowa City, IA
Taylor J. Ridley, M.D.
Minneapolis, MN
Matthew J. Bollier, M.D.
Iowa City, IA
Brian R. Wolf, M.D., M.S.
Iowa City, IA
Annunziato Amendola, M.D.
Iowa City, IA
32. TT-TG vs. Modified LPE for Determination of Tibial Tubercle Transfer Distance in Fulkerson Osteotomy Procedures
*Alan D. Edwards
Iowa City, IA
Evan P. Larson
Iowa City, IA
Nikhil K. Sahai
Iowa City, IA
John P. Albright, M.D.
Iowa City, IA
- BREAKOUT SESSION #3**
TRAUMA
11:00 a.m. - 1:00 p.m., Thursday, April 23, 2015
33. Vascular Thoracic Outlet Syndrome Following Clavicle Fractures and Adjacent Joint Trauma
*Alexander E. Weber, M.D.
Ann Arbor, MI
Enrique Criado, M.D.
Ann Arbor, MI
34. Incidence of Iatrogenic Radial Nerve Palsy Following ORIF of Humeral Shaft Nonunion
*Rafael Kakazu, M.D.
Cincinnati, OH
Steven K. Dailey, M.D.
Cincinnati, OH
John D. Wyrick, M.D.
Cincinnati, OH
Michael T. Archdeacon, M.D.
Cincinnati, OH
35. Definitive External Fixation for Fractures of the Humerus Shaft: A Systematic Review
*George C. Balazs, M.D.
Bethesda, MD
Michael A. Donohue, M.D.
Bethesda, MD
Jared A. Wolfe, M.D.
Bethesda, MD
Mark E. Fleming, D.O.
Bethesda, MD
36. Total Elbow Arthroplasty for Early Loss of Fixation After Distal Humerus Fractures
*Matthew C. Kergosien, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
Bernard F. Morrey, M.D.
Rochester, MN
37. Patients Undergoing Total Elbow Arthroplasty for Elbow Fracture Have Higher Perioperative Complications: A Nationwide Analysis of 3,797 Cases
Jimmy J. Jiang, M.D.
Chicago, IL
*Aneet S. Toor, M.D.
Chicago, IL
Lewis L. Shi, M.D.
Chicago, IL
Jason L. Koh, M.D.
Evanston, IL
38. Too Hot for Trauma
*Gregg M. Ebersole, M.D.
St. Louis, MO
Melissa Meister, M.D.
St. Louis, MO
Lisa K. Cannada, M.D.
St. Louis, MO
J. Tracy Watson, M.D.
St. Louis, MO

39. Effects of Reamer-Irrigator-Aspirator Wastewater on Bone Regeneration
 *Derek J. Klaus, M.D.
 Akron, OH
 Douglas Crowder
 Akron, OH
 Ethan Scott, B.S.
 Rootstown, OH
 Stephen D. Fening, Ph.D.
 Cleveland, OH
 Fayez Safadi, Ph.D.
 Rootstown, OH
 Eric T. Miller, M.D.
 Akron, OH
40. Does BMI Affect Low Energy Trauma Fracture Site?
 *Thomas S. Wenzlick, B.S.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Steven P. Lewis, B.S.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
41. What is the Bone Metabolic State of Patients with High Energy Trauma Fractures?
 *Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Michael D. Koets, B.S.
 Detroit, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
42. Early Appropriate Care of Orthopedic Injuries in Elderly Multiple-Trauma Patients
 *Michael S. Reich, M.D.
 Cleveland, OH
 Andrea J. Dolenc, B.S.
 Cleveland, OH
 Timothy A. Moore, M.D.
 Cleveland, OH
 Heather A. Vallier, M.D.
 Cleveland, OH
43. Does Timing from Injury to Surgical Reduction of Talar Fracture-Dislocations Matter?
 Robert W. Westermann, M.D.
 Iowa City, IA
 *Joseph A. Buckwalter, M.D.
 Iowa City, IA
 Matthew D. Karam, M.D.
 Iowa City, IA
 Brian Mooers, M.D.
 Iowa City, IA
 Brian R. Wolf, M.D., M.S.
 Iowa City, IA
44. Clinical Outcomes of Talus Fractures
 *Brandee S. Black, M.D.
 Columbia, MO
 Yelena Levina, B.S.
 Columbia, MO
 Brett D. Crist, M.D., FACS
 Columbia, MO
 David A. Volgas, M.D.
 Columbia, MO
 James P. Stannard, M.D.
 Columbia, MO
 Gregory J. Della Rocca, M.D.
 Columbia, MO
45. Correlation Between CT Measurement of Intra-Articular Calcaneus Fracture and Clinical Results, Complications, and Contact Stress Analysis
 Saran Tantavisut, M.D.
 Iowa City, IA
 Kevin Dibbern, M.D.
 Iowa City, IA
 Donald D. Anderson, Ph.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA
 Matthew D. Karam, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Brian Westerlind
 Iowa City, IA
 *J. Lawrence Marsh, M.D.
 Iowa City, IA
46. Outcome of Interprosthetic Femoral Fractures with Retained Knee and Hip Arthroplasty Treated with a Polyaxial Locking Plate
 *Martin F. Hoffmann, M.D.
 Bochum, Germany
 Sebastian Lotzien, M.D.
 Bochum, Germany
 Thomas A. Schildhauer, M.D.
 Bochum, Germany

BREAKOUT SESSION #4 REVISION HIP AND KNEE ARTHROPLASTY 11:00 a.m. - 1:00 p.m., Thursday, April 23, 2015

47. Varus-Valgus Constrained Knee Implants: Survivorship and Outcomes
Marcelo Siqueira, M.D.
Cleveland, OH
Paul Jacob, D.O.
Cleveland, OH
John McLaughlin, D.O.
Cleveland, OH
Alison K. Klika, M.S.
Cleveland, OH
*Robert M. Molloy, M.D.
Cleveland, OH
Carlos A. Higuera, M.D.
Cleveland, OH
Wael K. Barsoum, M.D.
Cleveland, OH
48. Predictors of Staphylococcus Aureus Colonization and Results After Decolonization
Tennison Malcolm, M.D.
Cleveland, OH
Le Don Robinson, M.D.
Cleveland, OH
Alison K. Klika, M.S.
Cleveland, OH
Carlos A. Higuera, M.D.
Cleveland, OH
*Trevor G. Murray, M.D.
Cleveland, OH
49. Long-Term Risk Factors for Revision, Reoperation, and Infection Following Revision THA for Mechanical Failure
Matthew T. Houdek, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Chad D. Watts, M.D.
Rochester, MN
Cody C. Wyles, B.S.
Rochester, MN
*Casey R. Stuhlman, M.D.
Rochester, MN
Daniel R. Whiting, M.D.
Rochester, MN
David G. Lewallen, M.D.
Rochester, MN
Tad M. Mabry, M.D.
Rochester, MN
50. Reoperation After Revision Surgery for Recalled Modular Neck Femoral Implants: A One-Year Follow-Up
*Christopher P. Walsh, M.D.
Detroit, MI
Joseph M. Nessler
St. Cloud, MN
Joseph P. Nessler, M.D.
St. Cloud, MN
David C. Markel, M.D.
Southfield, MI
51. Synovial Fluid Cytokine Changes Between First and Second Stage Revision Arthroplasty
*Salvatore J. Frangiamore, M.D.
Cleveland, OH
Nicholas Gajewski, B.S.
Cleveland, OH
Anas Saleh, M.D.
Cleveland, OH
Mario Farias Kovac, M.D.
Cleveland, OH
Thomas Daly, M.D.
Cleveland, OH
Thomas W. Bauer, M.D.
Cleveland, OH
Alison K. Klika, M.S.
Cleveland, OH
Wael K. Barsoum, M.D.
Cleveland, OH
Carlos A. Higuera, M.D.
Cleveland, OH
52. Constrained Cemented Liners in Revision Total Hip Arthroplasty: 10-Year Outcomes
*Diren Arsoy, M.D.
Rochester, MN
Matthew P. Abdel, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
53. Revision THA Utilizing the Cement-in-Cement Technique
Derek F. Amanatullah, M.D.
Rochester, MN
*Lorena V. Floccari, M.D.
Rochester, MN
Georgios I. Vasileiadis, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN

54. Dual Mobility Articulations Outperform Constrained Liners for Patients at High Risk for Instability
 Darren R. Plummer, M.S.
 Chicago, IL
 *Jonathan M. Christy, M.D.
 Chicago, IL
 Mario Moric, M.S.
 Chicago, IL
 Scott M. Sporer, M.D.
 Winfield, IL
 Wayne G. Paprosky, M.D.
 Winfield, IL
 Craig J. Della Valle, M.D.
 Chicago, IL
55. Patient Reported Reasons for Dissatisfaction Following Revision Total Hip Arthroplasty
 *George F. Bonadurer, III, B.S.
 Rochester, MN
 Cody C. Wyles, B.S.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
56. Revision Total Hip Arthroplasty: National Trends and Perioperative Outcomes
 *Brian E. Schwartz, M.D.
 Chicago, IL
 Vincent M. Moretti, M.D.
 Chicago, IL
 Nicholas B. Schraut, M.D.
 Chicago, IL
 Mark H. Gonzalez, M.D.
 Chicago, IL
57. Factors Associated with 20-Year Cumulative Risk of Infection After Aseptic Index Revision TKA
 *O. Brant Nikolaus, M.D.
 Rochester, MN
 Paul B. McLendon, M.D.
 Rochester, MN
 Cathy D. Schleck, B.S.
 Rochester, MN
 Arlen D. Hanssen, M.D.
 Rochester, MN
 Tad M. Mabry, M.D.
 Rochester, MN
 Elie F. Berbari, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
58. Irrigation and Debridement Prior to a Two-Stage Revision TKA Does Not Increase Risk of Failure
 Olubusola Brimmo, M.D.
 Cleveland, OH
 Nicholas Schlitz, Ph.D.
 Cleveland, OH
 Aiswarya Pillai Chandran, M.S.
 Cleveland, OH
 Siran Koroukian, Ph.D.
 Cleveland, OH
 *Alison K. Klika, M.S.
 Cleveland, OH
 Carlos A. Higuera, M.D.
 Cleveland, OH
 Wael K. Barsoum, M.D.
 Cleveland, OH
59. Morbid Obesity: A Significant Risk Factor for Failure Following Aseptic Revision TKA
 *Chad D. Watts, M.D.
 Rochester, MN
 Eric R. Wagner, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 David G. Lewallen, M.D.
 Rochester, MN
 Tad M. Mabry, M.D.
 Rochester, MN
60. Complications and Readmissions After Revision Knee Arthroplasty: Analysis of ACS-NSQIP 2006-2012
 Arjun S. Sebastian, M.D.
 Rochester, MN
 Sanjeev Kakar, M.D.
 Rochester, MN
 Kristine Thomsen, B.S.
 Rochester, MN
 Elizabeth B. Habermann, Ph.D.
 Rochester, MN
 *Mark W. Pagnano, M.D.
 Rochester, MN

**BREAKOUT SESSION #5
BASIC SCIENCE/OTHER/JOINT
ARTHROPLASTY****11:00 a.m. - 1:00 p.m., Thursday, April 23, 2015**

61. Diagnosing Infection in the Setting of Periprosthetic Fractures
Roshan P. Shah, M.D.
Chicago, IL
Darren R. Plummer, M.S.
Chicago, IL
Mario Moric, M.S.
Chicago, IL
*Scott M. Sporer, M.D.
Winfield, IL
Brett R. Levine, M.D.
Chicago, IL
Craig J. Della Valle, M.D.
Chicago, IL
62. Enhanced Detection of Staphylococcus Aureus Colonization in Patients Undergoing Total Joint Arthroplasty
*Andrew Taiber, M.D.
Omaha, NE
Angela Hewlett, M.D.
Omaha, NE
Tyler White, B.S.
Omaha, NE
Paul Fey, Ph.D.
Omaha, NE
Elizabeth Lyden, M.S.
Omaha, NE
Kevin L. Garvin, M.D.
Omaha, NE
Beau S. Konigsberg, M.D.
Omaha, NE
Curtis W. Hartman, M.D.
Omaha, NE
63. Altering Polymerization Temperature of Antibiotic-Laden Cement Can Increase Porosity and Subsequent Antibiotic Elution
*Jeffrey J. Sundblad, M.D.
Detroit, MI
Christopher Bergum, B.S.
Southfield, MI
Nancy M. Jackson, Ph.D.
Southfield, MI
Jeffrey C. Flynn, Ph.D.
Southfield, MI
David C. Markel, M.D.
Southfield, MI
64. The Cost-Effectiveness of Utilizing Platelet-Rich Plasma During Rotator Cuff Repair
*Eric M. Samuelson, M.D.
Omaha, NE
James E. Fleischli, M.D.
Charlotte, NC
65. The Effect of Topical Tranexamic Acid During Arthroplasty of the Knee on Blood Loss
*Jedediah H. May, M.D.
Dayton, OH
Geoffery R. Rieser, M.D.
Dayton, OH
Chad G. Williams, M.D.
Dayton, OH
Ronald J. Markert, Ph.D.
Dayton, OH
Anil B. Krishnamurthy, M.D.
Dayton, OH
Ryan D. Bauman, M.D.
Dayton, OH
Matthew W. Lawless, M.D.
Dayton, OH
66. Epidemiology of Osteomyelitis: A Population-Based Study of Trends Over Four Decades
Hilal Maradit Kremers, M.D.
Rochester, MN
Jeanine E. Ransom, B.S.
Rochester, MN
Christina M. Wood-Wentz, M.S.
Rochester, MN
L. Joseph Melton, III, M.D.
Rochester, MN
*Paul M. Huddleston, II, M.D.
Rochester, MN
67. The Impact of Obesity on Operative Time in Orthopedic Surgery
*J. Joseph Gholson, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
Nicolas O. Noiseux, M.D.
Iowa City, IA
Apurva S. Shah, M.D., M.B.A.
Iowa City, IA

68. Does Insurance Status Alter Outcomes if a Standardized Fracture Treatment Pathway is Utilized?
 *Alicia F. Worden, M.D.
 St. Louis, MO
 Lisa K. Cannada, M.D.
 St. Louis, MO
 J. Tracy Watson, M.D.
 St. Louis, MO
69. Analyses of 22,833 Orthopedic Surgeons' Scores from Two Major Physician-Rating Websites
 *Mohammed S. Hussain
 Chicago, IL
 Waqas M. Hussain, M.D.
 Moline, IL
 Haroon M. Hussain, M.D.
 Cincinnati, OH
 Hristo I. Piponov, M.D.
 Sofia, Bulgaria
 J. Martin Leland, III, M.D.
 Chicago, IL
 Douglas R. Dirschl, M.D.
 Chicago, IL
 Lewis L. Shi, M.D.
 Chicago, IL
70. Physician-Owned MRI More Cost Effective than Hospital-Owned Imaging
 *Christopher M. Graves, M.D.
 Iowa City, IA
 Cameron W. Schick, M.D.
 Iowa City, IA
 Stuart L. Weinstein, M.D.
 Iowa City, IA
71. Adipose-Derived Mesenchymal Stem Cells Are a Superior Cell Source for Regenerative Orthopedics
 Cody C. Wyles, B.S.
 Rochester, MN
 *German A. Norambuena-Morales, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
72. Identifying Potential Genetic and Epigenetic Markers for Susceptibility to Avascular Necrosis
 Cody C. Wyles, B.S.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 German A. Norambuena-Morales, M.D.
 Rochester, MN
 *Rafael J. Sierra, M.D.
 Rochester, MN
73. Bacterial Suture Adherence and Biofilm Formation in an In Vivo Contaminated Wound Model
 *Michael R. Morris, M.D.
 Detroit, MI
 Christopher Bergum, B.S.
 Southfield, MI
 Nancy M. Jackson, Ph.D.
 Southfield, MI
 David C. Markel, M.D.
 Southfield, MI
74. Intrawound Vancomycin Powder Reduces Surgical Site Infections in Total Hip and Knee Arthroplasty
 *Jeffrey E. Otte, M.D.
 Columbus, OH
 Joel R. Politi, M.D.
 Columbus, OH
 Bryan T. Chambers, M.D.
 Columbus, OH
 Craig A. Smith, M.D.
 Columbus, OH

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

Ask the Expert – Fracture Cases

Douglas R. Dirschl, M.D.
Chicago, IL

James F. Kellam, M.D.
Houston, TX

A consultation session with Drs. Douglas Dirschl and James Kellam, Classics Speakers and recognized authorities in trauma surgery, with cases brought by attendees. We encourage you to bring your HIPAA-compliant problem, difficult, and interesting trauma cases whether they have already been treated or not and present them. Bring these cases in digital format, as x-ray boxes will not be available.

Lunch on your own

1:30 p.m.

Optional Tour – Dolphin Eco Tour
(see page 65)

1:30 p.m.

Optional Tour – Fishing Charter
(see page 65)

2:00 p.m.

Mid-America Tennis Tournament
(see page 66)

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 24, 2015

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

Registration

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

INSTRUCTIONAL COURSE III – What Could Go Wrong Did: Getting Out of Trouble

Continental breakfast will be available

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

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

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

Matthew A. Mormino, M.D.
Omaha, NE

Objectives:

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

Often times a “simple” fracture turns out to be much more than that. This instructional course covers the complications which could go wrong with fracture stabilization and how to avoid these problems to optimize results. The participant will learn strategies to correct the errors in the OR when recognized through tips in this instructional course.

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

**INSTRUCTIONAL COURSE IV –
Approaches to Common Traumatic
Diagnoses of the Upper Extremity**

Continental breakfast will be available

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

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

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

A panel of hand surgeons from the Mayo Clinic, the University of Michigan, and Cincinnati's Trihealth Network will present an interactive discussion of a variety of common upper extremity injuries. Special attention will be paid to the diagnosis, clinical imaging, treatment plan, anatomy, surgical approach, available techniques, potential complications, rehabilitation recommendations, and outcomes. Topics will include metacarpal fractures, open injuries (gun shot, animal bites, fight bites), radius fractures, ulnar fractures, arthroscopically-assisted fracture reduction and fixation, ulnar collateral ligament repair of the thumb, bridge plating of the radius, scaphoid nonunion management à la Malerich, compartment syndrome management, among other common diagnoses. The goals of this instructional course are to increase the diagnostic skills and to provide treatment approaches for the practicing orthopedic surgeon and to improve their patient outcomes in the context of current research.

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)

7:30 a.m. - 8:30 a.m.

**OPTIONAL ACTIVITY FOR
SPOUSES/GUESTS:** Beachside Yoga
(see page 67)

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

Spouse/Guest Hospitality

SECOND PLENARY SESSION

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

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

Assembly/Announcements

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

**PRESIDENTIAL GUEST SPEAKER
Healthcare Reform: The Right
Diagnosis; How is the Patient Doing?
Stuart L. Weinstein, M.D.
Iowa City, IA**

8:34 a.m. - 9:11 a.m.

**SYMPOSIUM II – Current Issues in
Orthopedic Healthcare**

Stuart L. Weinstein, M.D., Moderator
Iowa City, IA

“AAOS Quality Movement – Performance
Measures”

Joshua J. Jacobs, M.D.
Chicago, IL

“The Importance of Advocacy for Both
Academic and Private Practice
Orthopedists”

David Teuscher, M.D.
Beaumont, TX

“Private vs. Hospital Physician Practice –
The Good, the Bad, and the Ugly”

Paul C. Collins, M.D.
Boise, ID

9:12 a.m. - 9:27 a.m.

AAOS Report
David Teuscher, M.D.
Beaumont, TX
2015-2016 AAOS President

9:27 a.m. - 9:32 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

*Denotes Speaker

9:32 a.m. - 10:00 a.m.

- 75. Edward D. Henderson M.D. Award Presentation
- 76. E. W. Johnson, Jr., M.D. Award Presentation
- 77. Carl L. Nelson, M.D. Award Presentation
- 78. Dallas B. Phemister, M.D. Award Presentation

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

CLASSICS IN ORTHOPAEDICS
Fracture Care – The Evolution of Operative Care
James F. Kellam, M.D.
Houston, TX

10:30 a.m. - 11:00 a.m.

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

10:30 a.m. - 11:00 a.m.

Coffee Break in Exhibit Area

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

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

BREAKOUT SESSION #6

FOOT AND ANKLE

11:00 a.m. - 1:00 p.m., Friday, April 24, 2015

- 79. Simple Neurectomy vs. Neurectomy with Intramuscular Implantation for Interdigital Neuroma: A Comparative Study
 *Chamnanni Rungprai, M.D.
 Iowa City, IA
 Ong-art Phruethiphat, M.D.
 Iowa City, IA
 John E. Femino, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA

- 80. Foot Function Index Outcomes of Gastrocnemius Recession for Treatment of Chronic Plantar Fasciitis
 *Ashish Shah, M.D.
 Birmingham, AL
 Osama Elattar, M.D.
 Birmingham, AL
 Sameer Naranje, M.D.
 Birmingham, AL

- 81. First Metatarsophalangeal Joint Arthrodesis with Interposition Allograft Bone Block
 *Sandra E. Klein, M.D.
 St. Louis, MO
 Pamela C. Luk, M.D.
 St. Louis, MO
 Jeffrey E. Johnson, M.D.
 St. Louis, MO
 Jeremy J. McCormick, M.D.
 St. Louis, MO

- 82. Effect of Arthroscopic Evaluation of Acute Ankle Fractures on PROMIS Intermediate-Term Functional Outcomes

*Daniel J. Fuchs, M.D.
 Chicago, IL
 Bryant S. Ho, M.D.
 Chicago, IL
 Mark W. LaBelle, B.S.
 Chicago, IL
 Armen S. Kelikian, M.D.
 Chicago, IL

- 83. Intraoperative O-Arm Evaluation on the Effect of Ankle Position on Accuracy of Syndesmotic Reduction

*Paul M. Lafferty, M.D.
 St. Paul, MN
 Timothy G. Hiesterman, M.D.
 St. Paul, MN
 Amir R. Rizkala, M.D.
 St. Paul, MN

- 84. Lateral Ankle Instability and Association of Peroneal Tendon Pathology and Posterior Ankle Impingement

Ashish Shah, M.D.
 Birmingham, AL
 *Osama Elattar, M.D.
 Birmingham, AL
 Sameer Naranje, M.D.
 Birmingham, AL

*Denotes Speaker

85. Risk Factors for Complications Following Open Reduction and Internal Fixation of Ankle Fractures
 Jimmy J. Jiang, M.D.
 Chicago, IL
 *Robert J. Stewart, M.D.
 Chicago, IL
 Erwin Bennett, M.D.
 Chicago, IL
 Douglas R. Dirschl, M.D.
 Chicago, IL
 Brian C. Toolan, M.D.
 Chicago, IL
86. Evaluation of Posterior Malleolar Fractures and the Posterior Pilon Variant in Operatively Treated Ankle Fractures
 *Paul J. Switaj, M.D.
 Chicago, IL
 Brian M. Weatherford, M.D.
 Baltimore, MD
 Daniel J. Fuchs, M.D.
 Chicago, IL
 Brett D. Rosenthal, M.D.
 Chicago, IL
 Eric Pang, M.D.
 Chicago, IL
 Anish R. Kadakia, M.D.
 Chicago, IL
87. Early Weight Bearing as Tolerated Following Open Reduction Internal Fixation of Ankle Fractures
 Shannon R. Carpenter, M.D.
 Royal Oak, MI
 Michael P. Planalp, M.D.
 Royal Oak, MI
 *S. Brandon Luczak, B.S.
 Royal Oak, MI
 Denise Kouetier, M.S.
 Royal Oak, MI
 Kevin D. Grant, M.D.
 Royal Oak, MI
 Jason Sadowski, M.D.
 Royal Oak, MI
88. The Independent Effects of Diabetes, Smoking, and Obesity on Operative Ankle Fracture Complications
 *Bryant S. Ho, M.D.
 Chicago, IL
 Shobhit V. Minhas, B.S.
 Chicago, IL
 Paul J. Switaj, M.D.
 Chicago, IL
 George Ochenjele, M.D.
 Chicago, IL
 Mary J. Kwasny, ScD
 Chicago, IL
 David W. Manning, M.D.
 Chicago, IL
 Anish R. Kadakia, M.D.
 Chicago, IL
89. Gait and Balance in Total Ankle Arthroplasty vs. Ankle Arthrodesis at 12 to 36 Months After Surgery
 Brandon W. King, M.D.
 Ann Arbor, MI
 *Todd A. Irwin, M.D.
 Ann Arbor, MI
 James S. Wrobel, M.D.
 Ann Arbor, MI
 James R. Holmes, M.D.
 Ann Arbor, MI
 Markus Byron, B.S.
 Ann Arbor, MI
90. Long-Term Follow-Up of Patients with Ankle Distraction as a Treatment for End Stage Osteoarthritis
 *Mai P. Nguyen, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
 Douglas Pedersen, Ph.D.
 Iowa City, IA
91. A Comparison of Perioperative Outcomes After Tibiotalar Fusion for Patients with Osteoarthritis vs. Rheumatoid Arthritis and Fractures
 Jimmy J. Jiang, M.D.
 Chicago, IL
 Oliver N. Schipper, M.D.
 Chicago, IL
 *Joseph B. Cohen, M.D.
 Chicago, IL
 Lan Chen, M.D.
 Evanston, IL
 Brian C. Toolan, M.D.
 Chicago, IL

92. Comparison of Union Rate Using Different Screw Insertion Techniques for Isolated Subtalar Arthrodesis
Ashish Shah, M.D.
Birmingham, AL
Osama Elattar, M.D.
Birmingham, AL
*Sameer Naranje, M.D.
Birmingham, AL

BREAKOUT SESSION #7

SPORTS

11:00 a.m. - 1:00 p.m., Friday, April 24, 2015

93. Effect of Combined Bony Defects on Anterior Glenohumeral Stability: A Cadaveric Study
*Piyush Walia, B.S.
Garfield Heights, OH
Ronak M. Patel, M.D.
Garfield Heights, OH
Lionel J. Gottschalk, M.D.
Garfield Heights, OH
Matthew Kuklis, M.S.
Garfield Heights, OH
Morgan H. Jones, M.D.
Garfield Heights, OH
Stephen D. Fenning, Ph.D.
Cleveland, OH
Anthony Miniaci, M.D.
Garfield Heights, OH
94. The Effects of Latarjet Reconstruction on Glenohumeral Instability in the Presence of Combined Bony Defects: A Cadaveric Model
Ronak M. Patel, M.D.
Garfield Heights, OH
Piyush Walia, B.S.
Garfield Heights, OH
Lionel J. Gottschalk, M.D.
Garfield Heights, OH
Matthew Kuklis, M.S.
Garfield Heights, OH
Morgan H. Jones, M.D.
Garfield Heights, OH
*Stephen D. Fenning, Ph.D.
Cleveland, OH
Anthony Miniaci, M.D.
Garfield Heights, OH
95. Analysis of Major League Baseball Pitchers' Velocity Before and After Surgical Treatment of Superior Labral Anterior-Posterior Tears
Jimmy J. Jiang, M.D.
Chicago, IL
*Kyle Borque, M.D.
Chicago, IL
J. Martin Leland, III, M.D.
Chicago, IL
96. Predictors of Postoperative Pain and Narcotic Use After Primary Arthroscopic Rotator Cuff Repair
*Troy A. Roberson, M.D.
Memphis, TN
Frederick M. Azar, M.D.
Memphis, TN
Robert H. Miller, M.D.
Memphis, TN
Thomas W. Throckmorton, M.D.
Memphis, TN
97. Cross-Sectional Analysis of the Long Head of the Biceps Tendon and Its Relationship to the Pectoralis Major Tendon: An Anatomical Study
*Sarah B. Nosslov, M.D.
Ann Arbor, MI
James R. Ross, M.D.
Fort Lauderdale, FL
James E. Carpenter, M.D.
Ann Arbor, MI
Christopher Robbins
Ann Arbor, MI
98. The Effect of Recombinant Human Parathyroid Hormone (rhPTH) on Tendon-to-Bone Healing in a Rat Rotator Cuff Model
*Kyle R. Duchman, M.D.
Iowa City, IA
Jessica E. Goetz, Ph.D.
Iowa City, IA
Andrew A. Amendola
Iowa City, IA
Bastian Uribe, M.D.
Iowa City, IA
Allison Malandra, M.S.
Iowa City, IA
Joshua Barber, M.D.
Iowa City, IA
Carolyn M. Hettrich, M.D., M.P.H.
Iowa City, IA

99. Arthroscopic Debridement and Capsular Release for the Treatment of Shoulder Osteoarthritis
 *Nathan W. Skelley, M.D.
 St. Louis, MO
 Surena Namdari, M.D., MSc
 St. Louis, MO
 Aaron M. Chamberlain, M.D.
 St. Louis, MO
 Jay D. Keener, M.D.
 St. Louis, MO
 Leesa M. Galatz, M.D.
 St. Louis, MO
 Ken Yamaguchi, M.D.
 St. Louis, MO
100. Predictors of Perioperative Complications Following Rotator Cuff Repair
 Troy A. Roberson, M.D.
 Memphis, TN
 Frederick M. Azar, M.D.
 Memphis, TN
 Robert H. Miller, M.D.
 Memphis, TN
 *Thomas W. Throckmorton, M.D.
 Memphis, TN
101. Evaluation of the Accuracy of Ultrasound in Patients with Rotator Cuff Tears
 William K. Vasileff, M.D.
 Detroit, MI
 Carissa J. Trippa, D.O.
 Alamosa, CO
 *Patricia A. Kolowich, M.D.
 Detroit, MI
102. Infection Rates in Arthroscopic vs. Open Rotator Cuff Repair
 *Justin H. Bartley, M.D.
 Temple, TX
 Kindyle L. Brennan, Ph.D.
 Temple, TX
 Daniel C. Jupiter, Ph.D.
 Temple, TX
 Derek K. Lichota, M.D.
 Temple, TX
 Robert E. Reeve, M.D.
 Temple, TX
 John Welsh, M.D.
 Temple, TX
 William P. Hamilton, M.D.
 Temple, TX
103. Sports Hernia: Role of Dynamic Ultrasound Evaluation
 *William K. Vasileff, M.D.
 Detroit, MI
 Mikhail Nekhline, M.D.
 Portland, OR
 Patricia A. Kolowich, M.D.
 Detroit, MI
 Gary B. Talpos, M.D.
 Detroit, MI
 Marnix van Holsbeeck, M.D.
 Detroit, MI
104. Pitching Performance of Major League Baseball Players After Revision Ulnar Collateral Ligament Reconstruction
 Robert A. Keller, M.D.
 Detroit, MI
 *Nathan E. Marshall, M.D.
 Detroit, MI
 Jonathan Lynch, M.D.
 Detroit, MI
 Vasilios Moutzouros, M.D.
 Detroit, MI
105. Use of On-Field Physical Examination and Survey to Characterize Youth Pitchers Likely to Underreport Injuries
 Alan D. Edwards
 Iowa City, IA
 *Evan P. Larson
 Iowa City, IA
 Nikhil K. Sahai
 Iowa City, IA
 John P. Albright, M.D.
 Iowa City, IA
106. Pre- and Post-Season Dynamic Ultrasound Evaluation of the Pitching Elbow
 *Robert A. Keller, M.D.
 Detroit, MI
 Nathan E. Marshall, M.D.
 Detroit, MI
 Nima Mehran, M.D.
 Detroit, MI
 Hafeez Ahmed, M.D.
 Detroit, MI
 Courtney Scher, M.D.
 Detroit, MI
 Marnix van Holsbeeck, M.D.
 Detroit, MI
 Michael J. Bey, M.D.
 Detroit, MI
 Vasilios Moutzouros, M.D.
 Detroit, MI

**BREAKOUT SESSION #8
PEDIATRIC SPINE/ADULT SPINE
11:00 a.m. - 1:00 p.m., Friday, April 24, 2015**

107. Percutaneous Pedicle Screw Stabilization without Fusion of Adolescent Thoracolumbar Spine Fractures
*Shari Cui, M.D.
St. Louis, MO
Aki S. Puryear, M.D.
St. Louis, MO
Gennadiy Busel, M.D.
St. Louis, MO
108. Association Between Obesity and 30-Day Outcomes for Spinal Arthrodesis in Children
*Jason R. Ferrel, M.D.
Columbus, OH
Justin B. Mahida, M.D.
Columbus, OH
Lindsey Asti, M.P.H., M.T. (ASCP)
Columbus, OH
Katherine J. Deans, M.D.
Columbus, OH
Peter C. Minneci, M.D.
Columbus, OH
Allan C. Beebe, M.D.
Columbus, OH
Brian D. Kenney, M.D.
Columbus, OH
109. Early Radiographic Results of Sagittal Deformity Correction and Maintenance with Percutaneous Pedicle Screw Stabilization in Thoracic and Lumbar Spine Fractures
Shari Cui, M.D.
St. Louis, MO
Irshad A. Shakir, M.D.
St. Louis, MO
*Dirk H. Alander, M.D.
St. Louis, MO
110. Primary Osteosarcoma of the Spine: Outcomes and Risk Factors for Survival Using the SEER Program Database
*Andrew J. Pugely, M.D.
Iowa City, IA
Kyle R. Duchman, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
Christopher T. Martin, M.D.
Iowa City, IA
Michael P. Kelly, M.D.
St. Louis, MO
Benjamin J. Miller, M.D.
Iowa City, IA
111. Intrawound Vancomycin Powder for Spine Tumor Surgery
Addisu Mesfin, M.D.
Rochester, NY
*Richard Okafor, M.D.
Rochester, NY
Robert W. Molinari, M.D.
Rochester, NY
William J. Molinari, M.D.
Rochester, NY
112. Incidental Extra-Spinal Findings in Lumbar Spine MRI: Incidence and Clinical Significance
Hossein K. Elgafy, M.D.
Toledo, OH
*Nicholas J. Peters, M.D.
Toledo, OH
Hassan Semaan, M.D.
Toledo, OH
Tawfik Obri, M.D.
Toledo, OH
113. The Clinical Utility of MRI for Cervical Spine Evaluation and Clearance Following Blunt Trauma
*Byron F. Stephens, M.D.
Memphis, TN
Richard A. Smith, Ph.D.
Memphis, TN
Keith D. Williams, M.D.
Memphis, TN

114. Thromboembolic Disease After Cervical Spine Surgery: A Review of 5,405 Procedures and Matched Cohort Analysis
 *Arjun S. Sebastian, M.D.
 Rochester, MN
 Bradford L. Currier, M.D.
 Rochester, MN
 Peter S. Rose, M.D.
 Rochester, MN
 Dirk Larson, B.S.
 Rochester, MN
 Paul M. Huddleston, M.D.
 Rochester, MN
 Michael J. Yaszemski, M.D., Ph.D.
 Rochester, MN
 Ahmad Nassr, M.D.
 Rochester, MN
115. Anterior Fixation of Floating Facet Fractures in the Cervical Spine. A Prospective Case Series and Biomechanical Analysis
 Christopher D. Chaput, M.D.
 Temple, TX
 *Nathan B. Haile, M.D.
 Temple, TX
 Aditya Muzumdar, M.S.
 Audubon, PA
 David Gloystein, M.D.
 Fort Hood, TX
 Vasilios Zerris, M.D.
 Temple, TX
 P. Justin Tortolani, M.D.
 Baltimore, MD
 Mark Moldavsky, B.S.
 Audubon, PA
 Suresh Chinthakunta, M.S.
 Audubon, PA
116. What Are the Risk Factors Associated with Mortality After Type II and Type III Odontoid Fractures in the Elderly?
 Tan Chen, B.S.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Michael T. Merrick, M.D.
 Grand Rapids, MI
 Casey L. Smith, M.D.
 Grand Rapids, MI
 *Clifford B. Jones, M.D.
 Grand Rapids, MI
 Scott S. Russo, M.D.
 Grand Rapids, MI
 James R. Stubbart, M.D.
 Grand Rapids, MI
117. Selective Thoracic Fusion of Lenke I and II Curves Affects Sagittal Profiles, but not Sagittal or Spino-Pelvic Alignment: A Case-Control Study
 *Zachary G. Ries, M.D.
 Iowa City, IA
 Christopher M. Graves, M.D.
 Iowa City, IA
 Bethany G. Harpole, B.S.
 Iowa City, IA
 Sergio A. Mendoza-Lattes, M.D.
 Iowa City, IA
 Stuart L. Weinstein, M.D.
 Iowa City, IA
118. Effectiveness and Safety of Transforaminal Lumbar Interbody Fusion in Revision Lumbar Surgery Patients with Previous Laminectomy
 *Hossein K. Elgafy, M.D.
 Toledo, OH
 Doug Olson, M.D.
 Toledo, OH
 Jiayong Liu, M.D.
 Toledo, OH
 Caitlin Lewis, B.S.
 Toledo, OH
 Hassan Semaan, M.D.
 Toledo, OH
119. Prospective Evaluation of Radiculitis Following BMP-2 Use for Interbody Arthrodesis in Spine Surgery
 Arjun S. Sebastian, M.D.
 Rochester, MN
 Paul M. Huddleston, M.D.
 Rochester, MN
 Mark A. Pichelmann, M.D.
 Rochester, MN
 Bradford L. Currier, M.D.
 Rochester, MN
 Grigoriy Arutyunyan, M.D.
 Rochester, MN
 *Jeremy L. Fogelson, M.D.
 Rochester, MN
 Vickie M. Treder, B.S.
 Rochester, MN
 Ahmad Nassr, M.D.
 Rochester, MN
120. Modifiable Risk Factors in Patients with Low Back Pain
 *Scott T. Shemory, M.D.
 Akron, OH
 Kiel J. Pfefferle, M.D.
 Akron, OH
 Ian M. Gradisar, M.D.
 Akron, OH

**BREAKOUT SESSION #9
TOTAL KNEE ARTHROPLASTY
11:00 a.m. - 1:00 p.m., Friday, April 24, 2015**

121. Increased Risk of Postoperative Complications After TKA in Patients with Previous Patellectomy: A Matched Cohort Analysis of 134 Knees
*Omar Haque
Rochester, MN
Hilal Maradit Kremers, M.D.
Rochester, MN
Walter K. Kremers, Ph.D.
Rochester, MN
Daniel J. Berry, M.D.
Rochester, MN
David G. Lewallen, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
122. Prior Patella Fracture Has No Effect on Long-Term Survivorship of TKAs
Matthew T. Houdek, M.D.
Rochester, MN
Chad D. Watts, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Steven F. Shannon, M.D.
Rochester, MN
*Matthew M. Crowe, M.D.
Rochester, MN
Matthew P. Abdel, M.D.
Rochester, MN
S. Andrew Sems, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
123. Total Knee Arthroplasty After 3:00 p.m. Increases Operative Time and Cost
Arjun S. Sebastian, M.D.
Rochester, MN
Thomas O'Byrne, B.S.
Rochester, MN
Dawn Finnie, B.S.
Rochester, MN
James Naessens, M.P.H., M.T. (ASCP)
Rochester, MN
*David G. Lewallen, M.D.
Rochester, MN
124. Perioperative Outcomes Following Unilateral vs. Bilateral Total Knee Arthroplasty
*Linda I. Suleiman, M.D.
Chicago, IL
Adam Edelstein, M.D.
Chicago, IL
Rachel E. Mednick, M.D.
Chicago, IL
Hasham M. Alvi, M.D.
Chicago, IL
Mary J. Kwasny, ScD
Chicago, IL
Matthew D. Beal, M.D.
Chicago, IL
David W. Manning, M.D.
Chicago, IL
125. Complex Primary Total Knee Arthroplasty: 25-Year Results
John R. Martin, M.D.
Rochester, MN
*Taylor R. Beahrs, M.D.
Rochester, MN
Matthew T. Houdek, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
126. Two Year Postoperative Outcomes of Arthroscopically Assisted Knee Resurfacing Device
*Robert A. Cagle, M.D.
Cleveland, OH
Morgan H. Jones, M.D.
Cleveland, OH
Anthony A. Miniaci, M.D.
Cleveland, OH
127. Young Patients Have Less Severe Arthritis and Lower Total Knee Replacement Outcome Scores Than Older Patients
*Jacob Haynes, M.D.
St. Louis, MO
Ryan M. Nunley, M.D.
St. Louis, MO
Denis Nam, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO
John C. Clohisy, M.D.
St. Louis, MO
James A. Keeney, M.D.
St. Louis, MO

*Denotes Speaker

128. Outcomes After Total Knee Arthroplasty as a Function of Body Mass Index
Eric R. Wagner, M.D.
Rochester, MN
Cathy D. Schleck, B.S.
Rochester, MN
*W. Scott Harmsen, M.S.
Rochester, MN
Daniel J. Berry, M.D.
Rochester, MN
129. Quantitative Perfusion Differences Afforded by Three Closure Techniques in Total Knee Arthroplasty: A Randomized Clinical Trial with a Novel Technology
Cody C. Wyles, B.S.
Rochester, MN
Steven R. Jacobson, M.D.
Rochester, MN
Matthew T. Houdek, M.D.
Rochester, MN
Franklin H. Sim, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
*Robert T. Trousdale, M.D.
Rochester, MN
130. Mobile Compression Devices and Aspirin Are Effective VTE Prophylaxis for Simultaneous Bilateral TKA
Ryan M. Nunley, M.D.
St. Louis, MO
Denis Nam, M.D.
St. Louis, MO
Staci R. Johnson, M.S.
St. Louis, MO
*James A. Keeney, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO
131. Early Experience with Bi-Cruciate Retaining Total Knee Arthroplasty
Craig J. Della Valle, M.D.
Chicago, IL
Tom Andriacchi, Ph.D.
Stanford, CA
Keith R. Berend, M.D.
New Albany, OH
*Jeffrey H. DeClaire, M.D.
Rochester Hills, MI
Adolph V. Lombardi, Jr., M.D.
New Albany, OH
Christopher L. Peters, M.D.
Salt Lake City, UT
132. Tranexamic Acid Decreases Transfusion and Hospital Cost in Simultaneous Bilateral Total Knee Arthroplasty
*Daniel R. Whiting, M.D.
Rochester, MN
Thomas M. Stewart, M.D.
Rochester, MN
Hilal Maradit Kremers, M.D.
Rochester, MN
Christopher M. Duncan, M.D.
Rochester, MN
Hugh M. Smith, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
133. All Polyethylene Tibial Components: A Survival and Infection Analysis Compared to Their Metal-Backed Counterparts
Matthew T. Houdek, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Clint J. Wooten, M.D.
Rochester, MN
Cody C. Wyles, B.S.
Rochester, MN
John R. Martin, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
*Joseph R. Cass, M.D.
Rochester, MN
134. Which Tibial Tray Design Achieves Maximum Coverage and Ideal Rotation: Anatomic, Symmetric, or Asymmetric? An MRI-Based Study
*S. David Stulberg, M.D.
Chicago, IL
Nitin Goyal, B.S.
Chicago, IL

**BREAKOUT SESSION #10
HIP PRESERVATION AND ARTHROSCOPY
11:00 a.m. - 1:00 p.m., Friday, April 24, 2015**

135. Heterotopic Ossification Excision Following Hip Arthroscopy
*Molly A. Keegan, M.D.
Rochester, MN
John M. Redmond, M.D.
Jacksonville, FL
Asheesh Gupta, M.D.
Fairfax, VA
Jon E. Hammarstedt, B.S.
Westmont, IL
Christine E. Stake, M.A.
Westmont, IL
Benjamin G. Domb, M.D.
Westmont, IL
136. Previous Surgery for Femoroacetabular Impingement Does Not Compromise Total Hip Arthroplasty Outcomes
*Luke Spencer-Gardner, M.D.
Rochester, MN
Christopher L. Camp, M.D.
Rochester, MN
John R. Martin, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
137. Measuring the Alpha-Angle on a False Profile View to Verify Adequate Femoral Osteochondroplasty
Michael D. Hellman, M.D.
Chicago, IL
*Molly C. Meadows, M.D.
Chicago, IL
Bryan D. Haughom, M.D.
Chicago, IL
Nicholas M. Brown, M.D.
Chicago, IL
Yale Fillingham, M.D.
Chicago, IL
Shane J. Nho, M.D.
Chicago, IL
138. Reverse Periacetabular Osteotomy Provides Excellent Results in Select Patients with Hip Impingement and Dysplasia
*Joshua A. Parry, M.D.
Rochester, MN
R. Presley Swann, M.D.
Rochester, MN
Jill Erickson, P.A.
Salt Lake City, UT
Christopher L. Peters, M.D.
Salt Lake City, UT
Robert T. Trousdale, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
139. Correlation of Pelvic Incidence with Cam and Pincer Lesions
*Jeremy J. Gebhart, M.D.
Cleveland, OH
Jonathan J. Streit, M.D.
Cleveland, OH
Asheesh Bedi, M.D.
Ann Arbor, MI
Charles A. Bush-Joseph, M.D.
Chicago, IL
Shane J. Nho, M.D.
Chicago, IL
Michael J. Salata, M.D.
Cleveland, OH
140. Ultrasound Evaluation of Asymptomatic Femoroacetabular Impingement and Inguinal Hernia in Female Olympic Soccer Athletes
William K. Vasileff, M.D.
Detroit, MI
*Ashraf Elbanna, M.D.
Detroit, MI
Hafeez Ahmed, M.D.
Detroit, MI
Marnix van Holsbeeck, M.D.
Detroit, MI
141. Does Complete Capsular Repair Improve Outcomes After Hip Arthroscopy Compared to Partial Repair?
*Rachel M. Frank, M.D.
Chicago, IL
Simon Lee, M.P.H.
Chicago, IL
Charles A. Bush-Joseph, M.D.
Chicago, IL
Bryan Kelly, M.D.
Chicago, IL
Michael J. Salata, M.D.
Chicago, IL
Shane J. Nho, M.D.
Chicago, IL

*Denotes Speaker

142. A Comparison of Athletes to Non-Athletes in Recovery After Hip Arthroscopy
 Misty Suri, M.D.
 New Orleans, LA
 *Neil L. Duplantier, M.D.
 New Orleans, LA
 Rami Elkhecher, M.D.
 New Orleans, LA
 Walter S. Choate, M.D.
 New Orleans, LA
 Shawn Johnson, M.D.
 New Orleans, LA
 Stephanie Pawlak, M.D.
 New Orleans, LA
 Deryk G. Jones, M.D.
 New Orleans, LA
143. Return to Sports After Hip Arthroscopy with a Minimum Two-Year Follow-Up
 Benjamin G. Domb, M.D.
 Westmont, IL
 Kevin F. Dunne, B.S.
 Westmont, IL
 Nathan A. Finch, M.S.
 Westmont, IL
 Asheesh Gupta, M.D.
 Fairfax, VA
 John M. Redmond, M.D.
 Jacksonville, FL
 Christine E. Stake, M.A.
 Westmont, IL
 *William Cregar, B.S.
 Richmond, VA
144. Results of Microfracture of Chondral Defects in the Hip Joint and an Analysis of the Current Indications for Its Use
 *Darrin J. Trask, M.D.
 Madison, WI
 Matthew W. Squire, M.D.
 Madison, WI
 James S. Keene, M.D.
 Madison, WI
145. Outcomes for Hip Arthroscopy Based on Gender and Age: A Comparative Matched-Group Analysis
 Rachel M. Frank, M.D.
 Chicago, IL
 *Simon Lee, M.P.H.
 Chicago, IL
 Charles A. Bush-Joseph, M.D.
 Chicago, IL
 Michael J. Salata, M.D.
 Chicago, IL
 Richard C. Mather, III, M.D.
 Chicago, IL
 Shane J. Nho, M.D.
 Chicago, IL
146. Outcomes of Endoscopic Treatment for Greater Trochanteric Pain Syndrome: Minimum of Two-Year Follow-Up
 Benjamin G. Domb, M.D.
 Westmont, IL
 Dror Lindner, M.D.
 Westmont, IL
 Leslie E. Schwindel, M.D.
 Chicago, IL
 Christine E. Stake, M.A.
 Westmont, IL
 Youssef El Bitar, M.D.
 Westmont, IL
 *John M. Redmond, M.D.
 Jacksonville, FL
147. Long-Term Outcomes of Arthroscopic Lesser Trochanteric Iliopsoas Tenotomies
 *James S. Keene, M.D.
 Madison, WI
 Brian J. Ludwig, M.D.
 Madison, WI
148. Safety Measures in Hip Arthroscopy and Their Efficacy in Minimizing Complications: A Systematic Review of the Evidence
 Asheesh Gupta, M.D.
 Fairfax, VA
 John M. Redmond, M.D.
 Jacksonville, FL
 Jon E. Hammarstedt, B.S.
 Westmont, IL
 Leslie E. Schwindel, M.D.
 Chicago, IL
 Benjamin G. Domb, M.D.
 Westmont, IL
- Lunch on your own
- 1:00 p.m. - 3:00 p.m.
MAOA Practice Management Symposium
- 1:00 p.m. - 1:10 p.m.
 Welcome and Introduction
 Craig R. Mahoney, M.D.
 West Des Moines, IA
- 1:10 p.m. - 1:40 p.m.
 Bundled Payments
 C. Lowry Barnes, M.D.
 Little Rock, AR
- 1:40 p.m. - 1:45 p.m.
 Questions and Discussion
- 1:45 p.m. - 2:15 p.m.
 ICD-10
 Craig S. Roberts, M.D., M.B.A.
 Louisville, KY

*Denotes Speaker

2:15 p.m. - 2:20 p.m.

Questions and Discussion

2:20 p.m. - 2:50 p.m.

Practice Management for the Orthopedic
Academician

Frederick N. Meyer, M.D.
Mobile, AL

2:50 p.m. - 3:00 p.m.

Questions/Closing Remarks

1:30 p.m.

Mid-America Golf Tournament
(see page 66)

1:30 p.m.

Optional Tour: Broad Creek Wildlife Kayak
Tour
(see page 67)

6:30 p.m.

MAOA Presidential Changing of the Guard
Ceremony

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

Steel Lecture – Excellence Through Leadership

Mr. Dan Gable
Retired American Olympic Wrestler and
Collegiate Head Coach
Iowa City, IA

Picked as the top sport's figure from Iowa of the 20th Century and one of three all-time to receive the Legend's Award in wrestling worldwide, Dan Gable is more known for his losses on and off the mat than for his wins. The reason being is that he went almost 7 years as an athlete and then almost 10 years as a coach with winning before experiencing a loss. His losses on and off the mat drove him to higher levels because of their magnitude.

Gable's appreciation for excellence and great communication is very much a driving force in his way of life for he realizes without these traits, the world would be less prepared to handle the difficulties that exist. He will share his story and outlooks for all to take for their future.

Dan Gable, Olympic wrestling champion, was unscored on in six matches at the Munich Olympics. He coached 21 years at the University of Iowa and took the team to 21 Big 10 conference championships and 15 NCAA championships. He wrestled at Iowa State University and won 181 matches before losing a match. He thrives on preventing adversity!

7:30 p.m. - 10:30 p.m.

Taste of Carolina

Join us for a fun evening on the Oceanfront Deck overlooking the Atlantic Ocean. Enjoy the "Taste of Carolina" dinner buffet and the music of The Fabulous Classics.

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

Exhibitor cost: \$150/person

Attire: Casual

A special children's buffet will be available for \$30/child (ages 5-11). Children's tickets may be purchased via the MAOA web site when registering for the meeting.

SATURDAY, APRIL 25, 2015

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

Registration

6:30 a.m. - 12:30 p.m.

Exhibits/Posters Open (continental breakfast available from 6:30 a.m. - 8:00 a.m. in exhibit area)

THIRD PLENARY SESSION

7:00 a.m. - 10:00 a.m.

7:00 a.m. - 7:05 a.m.

Assemble/Announcements

7:06 a.m. - 7:53 a.m.

149. Predictors and Causes of 30-Day Readmission After Shoulder and Knee Arthroscopy: An Analysis of 15,228 Cases

*Robert W. Westermann, M.D.

Iowa City, IA

Andrew J. Pugely, M.D.

Iowa City, IA

Yubo Gao, Ph.D.

Iowa City, IA

Christopher T. Martin, M.D.

Iowa City, IA

Zachary Ries, M.D.

Iowa City, IA

Annunziato Amendola, M.D.

Iowa City, IA

Brian R. Wolf, M.D., M.S.

Iowa City, IA

*Denotes Speaker

150. Secondary Pathology with Time to ACL Reconstruction Surgery
 *Steven Ralles, B.S.
 Philadelphia, PA
 Julie Agel
 Minneapolis, MN
 Michael Obermeier
 Minneapolis, MN
 Marc Tompkins, M.D.
 Minneapolis, MN
151. Femoral Nerve Block Use in Adolescent Anterior Cruciate Ligament Reconstruction Leads to Slower Return to Sports
 *T. David Luo, M.D.
 Rochester, MN
 Ali Ashraf, M.D.
 Rochester, MN
 Diane L. Dahm, M.D.
 Rochester, MN
 Amy L. McIntosh, M.D.
 Dallas, TX
152. Evaluation of Full-Thickness Rotator Cuff Tears in a Surgical Population: Ultrasound vs. Magnetic Resonance Imaging
 *Nima Mehran, M.D.
 Detroit, MI
 Kelechi R. Okoroha, M.D.
 Detroit, MI
 Jonathan S. Duncan, M.D.
 Detroit, MI
 Vasilios Moutzourous, M.D.
 Detroit, MI
153. Shoulder Arthroplasty for Arthritis After Instability Surgery: A 10-Year Follow-Up Study
 *Peter L. Kok, M.D.
 Rochester, MN
 Joshua A. Parry, M.D.
 Rochester, MN
 Bradley S. Schoch, M.D.
 Rochester, MN
 Cathy D. Schleck, B.S.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
154. Reverse Shoulder Arthroplasty Superior to Hemiarthroplasty for Cuff Tear Arthropathy with Preserved Motion
 *Jonathan D. Barlow, M.D.
 Columbus, OH
 Dexter Bateman, B.S.
 Philadelphia, PA
 Gerald R. Williams, Jr., M.D.
 Philadelphia, PA
- 7:54 a.m. - 7:59 a.m.
 Presentation of Mid-America Orthopaedic Association Poster Award Winners
- 8:00 a.m. - 8:30 a.m.
 Rapp Lecture
Tribocorrosion: Concepts and Clinical Ramifications
Joshua J. Jacobs, M.D.
Chicago, IL
- 8:31 a.m. - 9:24 a.m.
SYMPOSIUM III – Partial Knee Replacement
 Craig J. Della Valle, M.D., Moderator
 Chicago, IL
- “Medial Uni Arthroplasty – 2015 Update”
 Jeffrey H. DeClaire, M.D.
 Rochester Hills, MI
- “Lateral Uni Arthroplasty – Who is the Right Candidate?”
 Nicolas O. Noiseux, M.D.
 Iowa City, IA
- “Patellofemoral Arthroplasty”
 Diane L. Dahm, M.D.
 Rochester, MN
- “Outpatient Partial Knee Replacement”
 Craig J. Della Valle, M.D.
 Chicago, IL
- 9:24 a.m. - 9:29 a.m.
OREF Presentation
- 9:30 a.m. - 10:00 a.m.
CLASSICS IN ORTHOPAEDICS
Bone Health and Fragility Fractures: How Can Something So Simple Be So Difficult?
Douglas R. Dirschl, M.D.
Chicago, IL

10:00 a.m. - 10:05 a.m.
Second Business Meeting
(MAOA Members only)

10:00 a.m. - 10:30 a.m.
Poster viewing
(Poster Area)

10:00 a.m. - 10:30 a.m.
Coffee Break in Exhibit Area

10:30 a.m. - 1:30 p.m.
Breakout Sessions #11, #12, #13, #14, and
#15 to run concurrently

BREAKOUT SESSION #11

HIP ARTHROPLASTY

10:30 a.m. - 1:30 p.m., Saturday, April 25, 2015

155. Tranexamic Acid: Optimal Blood Loss Management in Surface Replacement Arthroplasty
*Adam A. Sassoon, M.D.
Seattle, WA
Staci R. Johnson, M.S.
St. Louis, MO
Ronald Jackups, M.D.
St. Louis, MO
Denis Nam, M.D.
St. Louis, MO
Ryan M. Nunley, M.D.
St. Louis, MO
Robert L. Barrack, M.D.
St. Louis, MO
156. Total Hip Arthroplasty with Highly Cross-Linked Polyethylene in Patients 50 Years and Younger
*Kevin L. Garvin, M.D.
Omaha, NE
Tyler White, B.S.
Omaha, NE
Patrick Anderl, M.D.
Omaha, NE
Anand Dusad, M.D.
Omaha, NE
Curtis W. Hartman, M.D.
Omaha, NE
Beau S. Konigsberg, M.D.
Omaha, NE
John Martell, M.D.
Omaha, NE
157. Hospital-Based Orthopedically Trained PA-C Improves Length of Stay, Cost, and Discharge Following TJA
*Daniel P. Hoeffel, M.D.
Woodbury, MN
Brandon J. Kelly, B.S.
Minneapolis, MN
Marc R. Giveans, Ph.D.
Woodbury, MN
Susan Mehle, B.S.
St. Paul, MN
158. Trunnionosis: Are Large Metal Heads on Polyethylene a Significant Source of Increased Metal Ions?
*John R. Martin, M.D.
Rochester, MN
Christopher L. Camp, M.D.
Rochester, MN
Luke Spencer-Gardner, M.D.
Rochester, MN
David G. Lewallen, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
159. Modular Shell Metal-on-Metal Bearings in THR: As Bad as Monolithic? As Good as Polyethylene?
*Justin Greiner, B.S.
Iowa City, IA
John J. Callaghan, M.D.
Iowa City, IA
Nicholas A. Bedard, M.D.
Iowa City, IA
Michael Steffl, M.D.
Los Angeles, CA
Steve S. Liu, M.D.
Iowa City, IA
Devon D. Goetz, M.D.
West Des Moines, IA
Craig R. Mahoney, M.D.
West Des Moines, IA
Nicolas O. Noiseux, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA

160. Patient Outcomes Following Implantation of Modular Neck Hip Prostheses in Primary THA
Takayuki Murayama, M.D.
Ann Arbor, MI
J. David Blaha, M.D.
Ann Arbor, MI
Aidin Eslam Pour, M.D.
Ann Arbor, MI
*Andrew G. Urquhart, M.D.
Ann Arbor, MI
Brian R. Hallstrom, M.D.
Ann Arbor, MI
Robert Bordern, B.S.
Ann Arbor, MI
Mary Groll-Brown, M.D.
Ann Arbor, MI
161. Adverse Local Tissue Reactions Secondary to Corrosion at the Head-Neck Junction in Metal on Polyethylene Bearings
*Darren R. Plummer, M.S.
Chicago, IL
Craig J. Della Valle, M.D.
Chicago, IL
Richard A. Berger, M.D.
Chicago, IL
Wayne G. Paprosky, M.D.
Winfield, IL
Scott M. Sporer, M.D.
Winfield, IL
Joshua J. Jacobs, M.D.
Chicago, IL
162. The Effect of Liposomal Bupivacaine Injection During Total Hip Arthroplasty: A Controlled Cohort Study
Benjamin G. Domb, M.D.
Westmont, IL
Asheesh Gupta, M.D.
Fairfax, VA
Jon E. Hammarstedt, B.S.
Westmont, IL
Kinzie Sharp, P.A.
Westmont, IL
John M. Redmond, M.D.
Jacksonville, FL
163. Simultaneous Bilateral vs. Staged Bilateral Total Hip Arthroplasty: A Survival Study
Matthew T. Houdek, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Cody C. Wyles, B.S.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
*Michael J. Taunton, M.D.
Rochester, MN
164. Total Hip Arthroplasty in the Medicaid Population
Brian E. Schwartz, M.D.
Chicago, IL
*David E. Mossad, B.S.
Chicago, IL
Vincent M. Moretti, M.D.
Chicago, IL
Mark H. Gonzalez, M.D.
Chicago, IL
165. Urinary Tract Infection After Total Hip Arthroplasty: A Retrospective Cohort Study
Brian E. Schwartz, M.D.
Chicago, IL
*Jonathan D. Lester, M.D.
Chicago, IL
David E. Mossad, B.S.
Chicago, IL
Vincent M. Moretti, M.D.
Chicago, IL
Mark H. Gonzalez, M.D.
Chicago, IL
166. Ceramic Femoral Heads for All Patients: An Argument for Cost Containment in Hip Surgery
*Cody C. Wyles, B.S.
Rochester, MN
Benjamin A. McArthur, M.D.
Rochester, MN
Jose H. Jimenez-Almonte, B.S.
Rochester, MN
Matthew T. Houdek, M.D.
Rochester, MN
Eric R. Wagner, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN

167. Do Corticosteroid Injections Increase the Risk of Early Postoperative Complications After Total Hip Arthroplasty?
 *Michael D. Hellman, M.D.
 Chicago, IL
 Bryan D. Haughom, M.D.
 Chicago, IL
 Bryan M. Saltzman, M.D.
 Chicago, IL
 Aaron L. Wiegmann, B.S.
 Chicago, IL
 Ishaq Ibrahim, B.S.
 Chicago, IL
 Christopher E. Gross, M.D.
 Chicago, IL
 Brett R. Levine, M.D.
 Chicago, IL
168. Effect of Impact Force and Direction on Stability of Modular Components In Total Hip Arthroplasty
 *Nicholas B. Frisch, M.D.
 Detroit, MI
 Jonathan R. Lynch, M.D.
 Detroit, MI
 Patrick Moen, M.D.
 Detroit, MI
 Richard Banglemier, Ph.D.
 Detroit, MI
 Craig D. Silverton, D.O.
 Detroit, MI
169. The Association of Radiographic Findings with Pain Following Total Hip and Surface Replacement Arthroplasty
 *Ryan M. Nunley, M.D.
 St. Louis, MO
 Denis Nam, M.D.
 St. Louis, MO
 Timothy J. Sauber, M.D.
 Pittsburgh, PA
 Toby Barrack
 St. Louis, MO
 Staci R. Johnson, M.S.
 St. Louis, MO
 Peter J. Brooks, M.D.
 Cleveland, OH
 Robert L. Barrack, M.D.
 St. Louis, MO
170. Mid-Term Survivorship of Modern Bearing Surface Options for Total Hip Arthroplasty in Young Patients: A Systematic Review and Meta-Analysis
 Cody C. Wyles, B.S.
 Rochester, MN
 Jose H. Jimenez-Almonte, B.S.
 Rochester, MN
 German A. Norambuena-Morales, M.D.
 Rochester, MN
 *Miguel E. Cabanela, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
171. What Can and Can't Be Learned from Long-Term Follow-Up Studies of Hip Replacement
 *Christopher T. Martin, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Lucian C. Warth, M.D.
 Iowa City, IA
 Steve S. Liu, M.D.
 Iowa City, IA
 Devon D. Goetz, M.D.
 West Des Moines, IA
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Nicolas O. Noisieux, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Richard C. Johnston, M.D.
 Iowa City, IA
172. No Correlation Between Muscle Biomarkers and Early Functional Outcome After Contemporary THA
 *Kirsten L. Poehling-Monaghan, M.D.
 Rochester, MN
 Michael J. Taunton, M.D.
 Rochester, MN
 Mark W. Pagnano, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN

173. Femoral Vein Patency During Total Hip Arthroplasty Using a Direct Anterior Approach
 *Rachel E. Mednick, M.D.
 Chicago, IL
 Hasham M. Alvi, M.D.
 Chicago, IL
 Courtney E. Morgan, M.D.
 Chicago, IL
 Michael D. Stover, M.D.
 Chicago, IL
 David W. Manning, M.D.
 Chicago, IL
174. Mid-Term Results of a Large U.S. Series of Hip Resurfacing with Technique and Imaging Recommendations
 Carlos A. Higuera, M.D.
 Cleveland, OH
 Kurt P. Spindler, M.D.
 Cleveland, OH
 Phil Golnick, P.A.
 Cleveland, OH
 Greg Strnad, M.S.
 Cleveland, OH
 *Peter J. Brooks, M.D.
 Cleveland, OH
175. Is There a Benefit to Head Size > 36 mm in Total Hip Arthroplasty?
 *Bryan D. Haughom, M.D.
 Chicago, IL
 Darren R. Plummer, M.S.
 Chicago, IL
 Mario Moric, M.S.
 Chicago, IL
 Craig J. Della Valle, M.D.
 Chicago, IL
177. The Acetabular Fracture Prognostic Nomogram: Does it Work for Fractures of the Posterior Wall?
 *Berton R. Moed, M.D.
 St. Louis, MO
 Megan J. McMahon, B.S.
 St. Louis, MO
 Eric S. Armbrecht, Ph.D.
 St. Louis, MO
178. Adherence to Preoperative Cardiac Clearance Guidelines in Hip Fracture Patients
 *Andrea C. Stitgen, M.D.
 Dayton, OH
 Kim N. Poludniany, D.O.
 Dayton, OH
 Elizabeth Dulaney-Cripe, M.D.
 Dayton, OH
 Ronald J. Markert, Ph.D.
 Dayton, OH
 Mark J. Prayson, M.D.
 Dayton, OH
179. An Implant Focused Analysis of the Anterior Femoral Bow in 3,258 Femurs
 *Samuel L. Rosenbaum, M.D.
 Ann Arbor, MI
 John J. Lee, M.D.
 Ann Arbor, MI
 Sven A. Holcombe, B.S.
 Ann Arbor, MI
 Stewart C. Wang, M.D.
 Ann Arbor, MI
 James A. Goulet, M.D.
 Ann Arbor, MI
180. Association of Specific Internal Organ Injuries with Femoral Shaft Fractures
 Catherine Olinger, B.S.
 Omaha, NE
 Sean O'Mara, B.S.
 Omaha, NE
 *Ryan E. Miller, M.D.
 Omaha, NE
 Karl A. Bergmann, M.D.
 Omaha, NE
 Dennis Chakkalakal, Ph.D.
 Omaha, NE
 Justin C. Siebler, M.D.
 Omaha, NE

**BREAKOUT SESSION #12
 PEDIATRIC AND ADULT TRAUMA
 10:30 a.m. - 1:30 p.m., Saturday, April 25, 2015**

176. Efficacy of Scheduled Intravenous Acetaminophen Pain Management Protocol in Hip Fractures
 *Alexander J. Bollinger, M.D.
 Grand Rapids, MI
 Paul D. Butler, M.D.
 Grand Rapids, MI
 Matthew S. Nies, B.S.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Terrence J. Endres, M.D.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI

*Denotes Speaker

181. Distal Femur Replacement for Acute Distal Femur Fractures in Elderly Patients
 *Clayton C. Bettin, M.D.
 Memphis, TN
 Patrick C. Toy, M.D.
 Memphis, TN
 John C. Weinklein, M.D.
 Memphis, TN
 Robert K. Heck, Jr., M.D.
 Memphis, TN
182. Thirty-Day Complications Associated with Plating vs. Nailing of Isolated Closed Femoral Shaft Fractures
 *George Ochenjele, M.D.
 Chicago, IL
 Shobhit V. Minhas, B.S.
 Chicago, IL
 Bryant S. Ho, M.D.
 Chicago, IL
 Anish R. Kadakia, M.D.
 Chicago, IL
183. Risk Factors for Infection After Operative Fixation of Tibial Plateau Fractures
 James D. Hlavacek, M.D.
 Birmingham, AL
 Emily Keener, D.O.
 Birmingham, AL
 *David Johannesmeyer, M.D.
 Birmingham, AL
 Brian E. Etier, Jr., M.D.
 Birmingham, AL
 Amit M. Momaya, M.D.
 Birmingham, AL
 Jason A. Lowe, M.D.
 Birmingham, AL
184. Risk Factors for Infection in Tibial Plateau Fractures with Compartment Syndrome
 Jason A. Lowe, M.D.
 Birmingham, AL
 *Brian E. Etier, Jr., M.D.
 Birmingham, AL
185. The Lateral Tibial Plateau Fracture: Three Types, but One Treatment
 *Luke P. Robinson, M.D.
 Louisville, KY
 Cameron T. Henzman, M.D.
 Louisville, KY
 John T. Riehl, M.D.
 Louisville, KY
 David Seligson, M.D.
 Louisville, KY
186. Treatment of Unstable Pelvic Ring Injuries with an Internal Anterior Fixator and Posterior Fixation in a Non-Obese Population
 *Sameh Elguizaoui, M.D.
 Akron, OH
 Paul Wilkie, M.D.
 Akron, OH
 William Kurtz, M.D.
 Akron, OH
 Nicholas DiNicola, M.D.
 Akron, OH
187. Acetabular Reduction Assessed by Computed Tomography and Contact Stress Analysis Correlated with Functional Outcome
 *Ong-art Phruetthiphat, M.D.
 Iowa City, IA
 J. Lawrence Marsh, M.D.
 Iowa City, IA
 Chamnanni Rungprai, M.D.
 Iowa City, IA
 Matthew D. Karam, M.D.
 Iowa City, IA
 Donald D. Anderson, Ph.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Andrew M. Kern, M.S.
 Iowa City, IA
188. CT or MRI? ED Utilization of Radiographic Studies to Evaluate Low Energy Hip and Pelvic Injuries in the Elderly Patient
 Christina M. Ward, M.D.
 St. Paul, MN
 *Gregory R. Hildebrand, M.D.
 Minneapolis, MN
 Amanda V. Ly, M.S.
 Minneapolis, MN
 Sandy Vang, B.S.
 St. Paul, MN
 Eileen Eggenberger
 St. Paul, MN
189. L5 Transverse Process Fracture: A Predictor of Instability for Pelvic Ring Injuries
 *Thomas D. Falls, M.D.
 Louisville, KY
 John T. Riehl, M.D.
 Louisville, KY

*Denotes Speaker

190. Antibiotics Given for Infection Prophylaxis in Open Tibia Fractures Do Not Cover Common Infecting Organisms
 *Michael C. Willey, M.D.
 Iowa City, IA
 Ambar Haleem, M.D.
 Iowa City, IA
 Matthew D. Karam, M.D.
 Iowa City, IA
 Robert W. Westermann, M.D.
 Iowa City, IA
 J. Lawrence Marsh, M.D.
 Iowa City, IA
191. Tibial Pilon Fractures with an Intact Fibula
 Nabil A. Ebraheim, M.D.
 Toledo, OH
 *Jiayong Liu, M.D.
 Toledo, OH
 Nicholas Peters, M.D.
 Toledo, OH
 Krystin A. Hidden, B.S.
 Toledo, OH
192. Fixation of Tibial Pilon Fractures: Which is the Correct Side to Plate?
 *Gennadiy A. Busel, M.D.
 St. Louis, MO
 J. Tracy Watson, M.D.
 St. Louis, MO
193. Data-Driven Implant Designs Avoid Unnecessary Hardware: A Comparative Study for Complex Tibial Pilon Fractures
 Peter A. Cole, M.D.
 St. Paul, MN
 Brian W. Hill, M.D.
 New Orleans, LA
 *Amir R. Rizkala, M.D.
 St. Paul, MN
194. Use of Reverse Soleus Flaps for Coverage of Lower Third Leg Wounds
 *Matthew T. Houdek, M.D.
 Rochester, MN
 Eric R. Wagner, M.D.
 Rochester, MN
 Cody C. Wyles, B.S.
 Rochester, MN
 S. Andrew Sems, M.D.
 Rochester, MN
 Steven L. Moran, M.D.
 Rochester, MN
195. Tension Band Plate Reconstruction of Comminuted Patellar Fractures: A Superior Novel Technique
 *Paul D. Butler, M.D.
 Grand Rapids, MI
 Travis A. Burgers, Ph.D.
 Grand Rapids, MI
 Debra L. Sietsema, Ph.D., R.N.
 Grand Rapids, MI
 Clifford B. Jones, M.D.
 Grand Rapids, MI
196. Neuropsychological Outcomes in Long Bone Fractures: What Factors Affect Results? A Pilot Study
 *Kimberly A. Jacobsen, M.D.
 St. Louis, MO
 Lisa K. Cannada, M.D.
 St. Louis, MO
 Heidi Israel, Ph.D.
 St. Louis, MO
 Ryan VanPatten, B.S.
 St. Louis, MO
 John Wright, Ph.D.
 St. Louis, MO

**BREAKOUT SESSION #13
 HIP AND KNEE ARTHROPLASTY
 10:30 a.m. - 1:30 p.m., Saturday, April 25, 2015**

197. The Use of Erythropoietin and Its Derivatives in the Treatment of Postoperative Peripheral Nerve Palsies in Total Hip and Knee Arthroplasty
 *Derek T. Bernstein, M.D.
 Houston, TX
 Kenneth B. Mathis, M.D.
 Houston, TX
 Bradley K. Weiner, M.D.
 Houston, TX
198. In-Hospital Opioid Exposure and the Risk of Surgical Site Infections in Total Hip and Knee Arthroplasty
 *Taylor D. Dennison, M.D.
 Rochester, MN
 Hilal Maradit Kremers, M.D.
 Rochester, MN
 Walter K. Kremers, Ph.D.
 Rochester, MN
 Christopher M. Duncan, M.D.
 Rochester, MN
 Elie F. Berbari, M.D.
 Rochester, MN
 Daniel J. Berry, M.D.
 Rochester, MN
 David G. Lewallen, M.D.
 Rochester, MN

199. Can the American College of Surgeons Risk Calculator Predict Outcomes After Hip and Knee Arthroplasty?
 *Adam I. Edelstein, M.D.
 Chicago, IL
 Linda I. Suleiman, M.D.
 Chicago, IL
 Rishi Khakhkhar, M.D.
 Chicago, IL
 Michael Moore, M.D.
 Urbana, IL
 Mary M. Kwasny, ScD
 Chicago, IL
 Matthew D. Beal, M.D.
 Chicago, IL
 David W. Manning, M.D.
 Chicago, IL
200. How Accurate is Patient Specific Instrumentation? A Comparison of Preoperative Planning in Different PSI Software Programs Given Identical MRI
 *Nitin Goyal, B.S.
 Chicago, IL
 S. David Stulberg, M.D.
 Chicago, IL
201. Trend in Primary and Revision Hip and Knee Arthroplasty Among the Orthopedic Surgeons Who Take the American Board of Orthopaedics Part 2 Exam
 *Aidin Eslam Pour, M.D.
 Ann Arbor, MI
 Thomas L. Bradbury, M.D.
 Atlanta, GA
 Greg Erens, M.D.
 Atlanta, GA
 James R. Roberson, M.D.
 Atlanta, GA
 John Harrast, M.D.
 Chicago, IL
202. Total Joint Arthroplasty: Trends in Medicare Reimbursement and Implant Prices
 *Daniel A. Belatti, B.S.
 Iowa City, IA
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
203. Early Success in the Medicare Bundled Payment for Care Improvement Program: Results of the Initial Experience
 *Mark I. Froimson, M.D.
 Cleveland, OH
 Michelle Schill, R.N.
 Cleveland, OH
 Monica Deadwiler, M.S.
 Cleveland, OH
204. Surgeon-Directed Management of Quality Indicators in Total Joint Arthroplasty: Optimizing Quality
 *Nicolas O. Noiseux, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Charles R. Clark, M.D.
 Iowa City, IA
 Melissa D. Willenborg, M.D.
 Iowa City, IA
 Nancy Krutzfeld, R.N.
 Iowa City, IA
 Aldijana Avdic, R.N.
 Iowa City, IA
205. Total Joint Arthroplasty in Smokers: Should We Wait for Patients to Quit Before Operating?
 *Nathan A. Nicholson, M.D.
 Iowa City, IA
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Christopher T. Martin, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Kyle R. Duchman, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
206. Seronegative Periprosthetic Joint Infections: Aspiration is Still the Gold-Standard
 *Benjamin A. McArthur, M.D.
 Rochester, MN
 Matthew P. Abdel, M.D.
 Rochester, MN
 Michael J. Taunton, M.D.
 Rochester, MN
 Douglas R. Osmon, M.D.
 Rochester, MN
 Arlen D. Hanssen, M.D.
 Rochester, MN

207. Factors That Influence Discharge Disposition and Readmission Following Total Joint Arthroplasty
 Daniel P. Hoeffel, M.D.
 Woodbury, MN
 *Brandon J. Kelly, B.S.
 Minneapolis, MN
 Marc R. Giveans, Ph.D.
 Woodbury, MN
 Susan Mehle, B.S.
 St. Paul, MN
208. Tranexamic Acid Makes Preoperative Blood Management Obsolete for Blood Transfusion Use During Primary Arthroplasty
 *Joseph F. Styron, M.D., Ph.D.
 Cleveland, OH
 Caleb R. Szubski, B.S.
 Cleveland, OH
 Albair Guirguis, M.D.
 Cleveland, OH
 Deborah Tolich, R.N.
 Cleveland, OH
 Alison K. Klika, M.S.
 Cleveland, OH
 Wael K. Barsoum, M.D.
 Cleveland, OH
 Carlos A. Higuera, M.D.
 Cleveland, OH
209. No Increased Risk of VTE and Potential Decreased Mortality Associated with Tranexamic Acid in Total Hip and Knee Arthroplasty
 Christopher M. Duncan, M.D.
 Rochester, MN
 *Blake P. Gillette, M.D.
 Rochester, MN
 Adam K. Jacob, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
 Joaquin Sanchez-Sotelo, M.D.
 Rochester, MN
 Dirk Larson
 Rochester, MN
 Hugh M. Smith, M.D.
 Rochester, MN
210. Rivaroxaban vs. Warfarin vs. Aspirin for Venous Thromboembolism Prophylaxis After Total Hip and Knee Arthroplasty
 Blaine T. Manning, B.S.
 Chicago, IL
 Robert A. Medeiros, B.S.
 Chicago, IL
 Shiv I. Sutariya, B.S.
 Chicago, IL
 Vicky Kang, B.S.
 Chicago, IL
 Brandon J. Erickson, M.D.
 Chicago, IL
 Mario Moric, M.S.
 Chicago, IL
 Richard A. Berger, M.D.
 Chicago, IL
 Scott M. Sporer, M.D.
 Winfield, IL
 *Brett R. Levine, M.D.
 Chicago, IL
211. Tranexamic Acid Benefits Total Joint Arthroplasty Patients Regardless of Preoperative Hemoglobin Value
 Daniel R. Whiting, M.D.
 Rochester, MN
 *Christopher M. Duncan, M.D.
 Rochester, MN
 Hugh M. Smith, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
212. Hospital Based Acute Care Following Total Hip and Knee Arthroplasty: Implications for Quality Measurement
 Roman Trimba, M.D.
 Dayton, OH
 *Richard T. Laughlin, M.D.
 Dayton, OH
 Anil Krishnamurthy, M.D.
 Dayton, OH
 Joseph S. Ross, M.D.
 New Haven, CT
 Justin P. Fox, M.D.
 Dayton, OH
213. Orthopedic Surgery Arthroplasty Clinics See a Larger Proportion of Obese Patients
 *Kristina L. Welton, M.D.
 Ann Arbor, MI
 Joel J. Gagnier, Ph.D.
 Ann Arbor, MI
 Andrew A. Urquhart, M.D.
 Ann Arbor, MI

214. Medicare Data Transparency May Confuse Consumers Comparing Hospitals for Total Joint Arthroplasty
Daniel A. Belatti, B.S.
Iowa City, IA
Andrew J. Pugely, M.D.
Iowa City, IA
Annunziato Amendola, M.D.
Iowa City, IA
Phinit Phisitkul, M.D.
Iowa City, IA
*John J. Callaghan, M.D.
Iowa City, IA
215. The Effective Use of an Arthroplasty Database Registry to Drive Quality Transfusion Practices
*Mark W. Allen, D.O.
Madison Heights, MI
Nicole M. Zappa, D.O.
Southfield, MI
David C. Markel, M.D.
Southfield, MI
216. Trends of Synovial Fluid Cytokines in Non-Arthritic, Arthritic, and Painful Hip and Knee Arthroplasty
Salvatore J. Frangiamore, M.D.
Cleveland, OH
*Nicholas Gajewski, B.S.
Cleveland, OH
Anas Saleh, M.D.
Cleveland, OH
Mario Farias Kovac, M.D.
Cleveland, OH
Colin O'Rourke, B.S.
Cleveland, OH
Thomas Daly, M.D.
Cleveland, OH
Alison K. Klika, M.S.
Cleveland, OH
Wael K. Barsoum, M.D.
Cleveland, OH
Carlos A. Higuera, M.D.
Cleveland, OH
217. The Effects of a Hospitalist Co-Management Model for Joint Replacement Patients in a Teaching Facility
Neil L. Duplantier, M.D.
New Orleans, LA
David Briski, M.D.
New Orleans, LA
John L. Ochsner, Jr., M.D.
New Orleans, LA
*Mark S. Meyer, M.D.
New Orleans, LA
George F. Chimento, M.D.
New Orleans, LA
- BREAKOUT SESSION #14**
SHOULDER
10:30 a.m. - 1:30 p.m., Saturday, April 25, 2015
218. Body Mass Index Significantly Affects Characterization of Glenohumeral Wear Patterns in Shoulder Arthroplasty: Axillary Lateral Radiography vs. Computed Tomography
*Ryan P. Mulligan, M.D.
Memphis, TN
John F. Feldman, M.D.
Memphis, TN
William J. Weller, M.D.
Memphis, TN
Nicolas Bonnaig, M.D.
Memphis, TN
Robert H. Miller, III, M.D.
Memphis, TN
Frederick M. Azar, M.D.
Memphis, TN
Thomas W. Throckmorton, M.D.
Memphis, TN
219. Hypovitaminosis D in Patients Scheduled to Undergo Shoulder Arthroplasty: A Single-Center Analysis
*Bradley P. Inkrott, M.D.
Akron, OH
Kiel J. Pfefferle, M.D.
Akron, OH
Jessica Koberling, P.A.
Akron, OH
Curt R. Noel, M.D.
Akron, OH

220. Two-Year Clinical and Radiographic Outcomes of Total Shoulder Arthroplasty Utilizing a Hybrid Glenoid Component with a Central Porous Titanium Post
 *Marcus C. Ford, M.D.
 Memphis, TN
 Erin M. Meehan, M.D.
 Memphis, TN
 Frederick M. Azar, M.D.
 Memphis, TN
 Thomas W. Throckmorton, M.D.
 Memphis, TN
221. The Impact of BMI on Short-Term Complications Following Total Shoulder Arthroplasty
 *Jimmy J. Jiang, M.D.
 Chicago, IL
 Pranay B. Patel, M.D.
 Chicago, IL
 Jason L. Koh, M.D.
 Chicago, IL
 Douglas R. Dirschl, M.D.
 Chicago, IL
 Lewis L. Shi, M.D.
 Chicago, IL
222. Quantifying Survival and Complications in Shoulder Arthroplasty as a Function of Age
 *Eric R. Wagner, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 Joseph Statz, M.D.
 Rochester, MN
 Cathy D. Schleck, B.S.
 Rochester, MN
 W. Scott Harmsen, M.S.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
 Bassem T. Elhassan, M.D.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
223. Comparison of Outcomes and Complication Rates After Total Shoulder Arthroplasty and Reverse Shoulder Arthroplasty
 *M. Mustafa Gombera, M.D.
 Chicago, IL
 Guido Marra, M.D.
 Chicago, IL
 Gordon N. Nuber, M.D.
 Chicago, IL
 Matthew D. Saltzman, M.D.
 Chicago, IL
224. Arthroscopic Tissue Culture for the Evaluation of Periprosthetic Shoulder Infection
 *Matthew F. Dilisio, M.D.
 Omaha, NE
 Jon J. P. Warner, M.D.
 Boston, MA
 Lindsay R. Miller, M.S.
 Boston, MA
 Laurence D. Higgins, M.D.
 Boston, MA
225. Body Mass Index as a Continuous Variable in Shoulder Arthroplasty
 Eric R. Wagner, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 *Joseph Statz, M.D.
 Rochester, MN
 Cathy D. Schleck, B.S.
 Rochester, MN
 W. Scott Harmsen, M.S.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
 Bassem T. Elhassan, M.D.
 Rochester, MN
226. Comparison of Outcomes and Optimal Assessment Tools After Reverse Shoulder Arthroplasty
 *Vani J. Sabesan, M.D.
 Kalamazoo, MI
 Vinay Sharma, B.S.
 Kalamazoo, MI
 Craig Beam, Ph.D.
 Kalamazoo, MI
 J. Michael Wiater, M.D.
 Troy, MI

227. Revision Surgery for Aseptic Glenoid Loosening After Total Shoulder Arthroplasty
 *William R. Aibinder, M.D.
 Rochester, MN
 Bradley S. Schoch, M.D.
 Rochester, MN
 Cathy D. Schleck, B.S.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
228. Primary and Revision Total Shoulder Arthroplasty: National Trends and Perioperative Outcomes
 Brian E. Schwartz, M.D.
 Chicago, IL
 David D. Savin, M.D.
 Chicago, IL
 *Peter D. McQueen, M.D.
 Chicago, IL
 David E. Mossad, B.S.
 Chicago, IL
 Ari R. Youdarian, M.D.
 Chicago, IL
 Benjamin A. Goldberg, M.D.
 Chicago, IL
229. Radiographic and Clinical Outcomes Following Total Shoulder Arthroplasty with a Non-Cemented, Micro-Stem Humeral Component: A Retrospective Analysis at Least Two Years Postoperative
 *Andrew A. Millis, M.D.
 Cincinnati, OH
 Keith Kenter, M.D.
 Cincinnati, OH
 Nicholas Sacksteder, B.S.
 Cincinnati, OH
 Robert Wissman, M.D.
 Cincinnati, OH
 Eric England, M.D.
 Cincinnati, OH
 Kaushal Mehta, M.D.
 Cincinnati, OH
230. Optimal Baseplate Rotational Alignment in Reverse Total Shoulder Arthroplasty: A Three-Dimensional Computer-Aided Design Study
 Byron F. Stephens, M.D.
 Memphis, TN
 Casey T. Hebert, M.S.
 Memphis, TN
 Frederick M. Azar, M.D.
 Memphis, TN
 William M. Mihalko, M.D.
 Memphis, TN
 Thomas W. Throckmorton, M.D.
 Memphis, TN
 (Presented by John J. Feldman, M.D., Memphis, TN)
231. Cement-within-Cement Humeral Fixation in Revision Reverse Shoulder Arthroplasty
 Eric R. Wagner, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 *Steven I. Pancio, M.D.
 Rochester, MN
 Bassem T. Elhassan, M.D.
 Rochester, MN
 Joaquin Sanchez-Sotel, M.D.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
232. Vitamin E-Infused Highly Cross-Linked Polyethylene Demonstrates Less Volumetric Wear Than Standard Cross-Linked Polyethylene at Five Million Cycles in a Reverse Shoulder Arthroplasty
 *Tyler J. Brolin, M.D.
 Memphis, TN
 Joshua B. Sykes, M.D.
 Memphis, TN
 Hani Haider, Ph.D.
 Omaha, NE
 John W. Sperling, M.D.
 Rochester, MN
 Thomas W. Throckmorton, M.D.
 Memphis, TN

233. Recent National Trends and Outcomes for Surgical Management of Proximal Humerus
 *Leland E. Gossett, B.S.
 Chicago, IL
 Sapan H. Shah, B.S.
 Chicago, IL
 Timothy D. Gossett, B.S.
 Chicago, IL
 Vincent M. Moretti, M.D.
 Chicago, IL
 Samuel J. Chmell, M.D.
 Chicago, IL
234. Glenoid Version and Size: Does Gender, Ethnicity, or Body Size Play a Role?
 *Domenic P. Esposito, M.D.
 Chicago, IL
 Vincent M. Moretti, M.D.
 Chicago, IL
 Joseph Karam, M.D.
 Chicago, IL
 Brian E. Schwartz, M.D.
 Chicago, IL
 Matthew Robinson, M.D.
 Chicago, IL
 David Mossad, B.S.
 Chicago, IL
 Stephen N. Schwartz, M.D.
 Chicago, IL
 Benjamin Goldberg, M.D.
 Chicago, IL
235. Influence of Body Mass Index on Outcomes in Reverse Total Shoulder Arthroplasty
 *Shannon R. Carpenter, M.D.
 Royal Oak, MI
 Brett P. Wiater, M.D.
 Royal Oak, MI
 Denise Koueiter, M.S.
 Royal Oak, MI
 David Marcantonio, M.D.
 Royal Oak, MI
 J. Michael Wiater, M.D.
 Royal Oak, MI
236. Results of Closed Management of Acute Dislocation Following Reverse Shoulder Arthroplasty
 *Matthew J. Teusink, M.D.
 Omaha, NE
 Ioannis P. Pappou, M.D.
 Tampa, FL
 Daniel G. Schwartz, M.D.
 Seattle, WA
 Benjamin J. Cottrell, B.S.
 Tampa, FL
 Mark A. Frankle, M.D.
 Tampa, FL
237. Allograft-Prosthetic Composite Reconstruction for Proximal Humerus Bone Loss in Reverse Shoulder Arthroplasty
 Matthew T. Houdek, M.D.
 Rochester, MN
 Eric R. Wagner, M.D.
 Rochester, MN
 Joel M. Post, D.O.
 Rochester, MN
 *Brian T. Samuelsen, M.D.
 Rochester, MN
 Robert H. Cofield, M.D.
 Rochester, MN
 Bassem T. Elhassan, M.D.
 Rochester, MN
 John W. Sperling, M.D.
 Rochester, MN
 Joaquin Sanchez-Sotelo, M.D.
 Rochester, MN
238. Reverse Total Shoulder Arthroplasty for Fracture: A Standard of Care Survey
 *David D. Savin, M.D.
 Chicago, IL
 Ina Zamfirova, B.S.
 Park Ridge, IL
 Joseph P. Iannotti, M.D.
 Cleveland, OH
 Ari R. Youderian, M.D.
 Morton Grove, IL

**BREAKOUT SESSION #15
PEDIATRICS/TUMOR/RESIDENT
EDUCATION**

10:30 a.m. - 1:30 p.m., Saturday, April 25, 2015

239. Long-Term Results of Tibialis Anterior Tendon Transfer in Relapsing Idiopathic Clubfoot Treated with the Ponseti Method: A 50-Year Follow-Up
*Joshua B. Holt, M.D.
Iowa City, IA
David E. Oji, M.D.
Iowa City, IA
John Yack, Ph.D.
Iowa City, IA
Jose A. Morcuende, M.D., Ph.D.
Iowa City, IA
240. Prevalence of Radiographic Femoroacetabular Impingement in Asymptomatic vs. Symptomatic Adolescents
*Jared W. Daniel, M.D.
Iowa City, IA
Stuart L. Weinstein, M.D.
Iowa City, IA
Ryan M. Ilgenfritz, M.D.
Iowa City, IA
Lori Dolan, Ph.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
241. Closed Treatment of Shoulder Subluxation in Children with Birth Brachial Plexus Injuries
*Jennifer K. Wozniczka, M.D.
Minneapolis, MN
Ann E. Van Heest, M.D.
Minneapolis, MN
242. Pediatric Pelvic Ring Injuries: How Benign Are They?
*Christiane G. Kruppa, M.D.
Bochum, Germany
Justin D. Khoriaty, B.S.
Grand Rapids, MI
Debra L. Sietsema, Ph.D., R.N.
Grand Rapids, MI
Marcel Dudda, M.D.
Grand Rapids, MI
Clifford B. Jones, M.D.
Grand Rapids, MI
243. How Bad Are Pediatric and Adolescent Sacral Fractures?
*Christiane G. Kruppa, M.D.
Bochum, Germany
Debra L. Sietsema, Ph.D., R.N.
Grand Rapids, MI
Justin D. Khoriaty, B.S.
Grand Rapids, MI
Marcel Dudda, M.D.
Grand Rapids, MI
Clifford B. Jones, M.D.
Grand Rapids, MI
244. Fracture Displacement and Neurological Injury in Supracondylar Humerus Fracture in Children
*Evan Sheppard, M.D.
Birmingham, AL
Brian E. Etier, Jr., M.D.
Birmingham, AL
Joseph G. Khoury, M.D.
Birmingham, AL
Shawn R. Gilbert, M.D.
Birmingham, AL
245. Do Deficits Exist Following Nonoperative vs. Operative Treatment of Shortened Midshaft Clavicular Fractures in Adolescents?
Joshua A. Parry, M.D.
Rochester, MN
Meegan G. Van Straaten, P.T.
Rochester, MN
A. Noelle Larson, M.D.
Rochester, MN
T. David Luo, M.D.
Rochester, MN
Anne-Laure Simon, M.D.
Rochester, MN
Kenton R. Kaufman, Ph.D.
Rochester, MN
*William J. Shaughnessy, M.D.
Rochester, MN
246. Femoroacetabular Impingement in Asymptomatic Adolescents: At What Age Do CAM and Pincer Deformities First Appear?
*G. Ying Li, M.D.
Ann Arbor, MI
Peter Helvie, B.S.
Ann Arbor, MI
Matthew Mead, B.S.
Ann Arbor, MI
Joel Gagnier, Ph.D.
Ann Arbor, MI
Matthew R. Hammer, M.D.
Dallas, TX
Nahbee Jong, B.S.
Ann Arbor, MI

*Denotes Speaker

247. Arthroscopic Treatment of Traumatic Hip Dislocations in Children and Adolescents
 Andrew C. Morris, M.D.
 Birmingham, AL
 Johnathan Yu, M.D.
 Birmingham, AL
 *Shawn R. Gilbert, M.D.
 Birmingham, AL
248. Orthopedic Complications of Linear Morphea
 *Jennifer J. Schoch, M.D.
 Rochester, MN
 Bradley S. Schoch, M.D.
 Rochester, MN
 Jean David Werthel, M.D.
 Rochester, MN
 Dawn M. R. Davis, M.D.
 Rochester, MN
 Amy L. McIntosh, M.D.
 Dallas, TX
249. Cause-Specific Survival and Prognostic Factors for Survival in High-Grade Osteosarcoma Using the Surveillance, Epidemiology, and End Results (SEER) Program Database
 Kyle R. Duchman, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 *Benjamin J. Miller, M.D.
 Iowa City, IA
250. Osteoclast Inhibition Impairs Chondrosarcoma Growth and Bone Destruction
 *Jesse E. Otero, M.D.
 Iowa City, IA
 Jeff W. Stevens, Ph.D.
 Iowa City, IA
 Allison E. Malandra, Ph.D.
 Iowa City, IA
 Douglas C. Fredericks, M.S.
 Iowa City, IA
 Paul R. Odgren, Ph.D.
 North Worcester, MA
 Joseph A. Buckwalter, M.D.
 Iowa City, IA
 Jose Morcuende, M.D., Ph.D.
 Iowa City, IA
251. Survival in Mesenchymal Chondrosarcoma: An Analysis of 205 Cases Utilizing the SEER Database
 *Brian A. Schneiderman
 Maywood, IL
 Lukas M. Nystrom, M.D.
 Maywood, IL
 Stephanie Kliethermes, Ph.D.
 Maywood, IL
252. Wide Re-Excision of Unplanned Surgery for Synovial Sarcoma of the Upper Extremity Demonstrates Good Outcomes
 *Joel M. Post, D.O.
 Rochester, MN
 Benjamin K. Wilke, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 Andrew L. Folpe, M.D.
 Rochester, MN
 Sanjeev Kakar, M.D.
 Rochester, MN
 Peter S. Rose, M.D.
 Rochester, MN
253. Factors Affecting Outcomes and Survival of Primary Sarcomas of the Hand
 Joel M. Post, D.O.
 Rochester, MN
 *Benjamin K. Wilke, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 Brian E. Walczak, D.O.
 Rochester, MN
 Allen T. Bishop, M.D.
 Rochester, MN
 Alexander Y. Shin, M.D.
 Rochester, MN

254. Prognostic Factors of Early Mortality in Patients Undergoing Spinopelvic Tumor Resection
*Grigoriy Arutyunyan, M.D.
Rochester, MN
Arjun Sebastian, M.D.
Rochester, MN
Nathan Murdoch, M.D.
Rochester, MN
Peter S. Rose, M.D.
Rochester, MN
Doris Wenger, M.D.
Rochester, MN
Bradford L. Currier, M.D.
Rochester, MN
Franklin H. Sim, M.D.
Rochester, MN
Michael J. Yaszemski, M.D., Ph.D.
Rochester, MN
255. Evaluation of the ABOS Surgical Skills Module 7: Compartment Syndrome Diagnosis and Treatment
Saran Tantavisut, M.D.
Iowa City, IA
*Brian O. Westerlind
Iowa City, IA
Ryan Ilgenfritz, M.D.
Iowa City, IA
Matthew D. Karam, M.D.
Iowa City, IA
J. Lawrence Marsh, M.D.
Iowa City, IA
256. Surgical Coaching from Head-Camera Video for Fluoroscopically-Guided Articular Fracture Surgery
*Daniel M. Koehler, M.D.
Iowa City, IA
Geb W. Thomas, Ph.D.
Iowa City, IA
Matthew D. Karam, M.D.
Iowa City, IA
Paul M. Lafferty, M.D.
Minneapolis, MN
Gary Ohrt, M.S.
Iowa City, IA
J. Lawrence Marsh, M.D.
Iowa City, IA
Ann Van Heest, M.D.
Minneapolis, MN
Donald D. Anderson, Ph.D.
Iowa City, IA
257. A Low Cost Simulation that Improves Basic Fracture Fixation Skills
Saran Tantavisut, M.D.
Iowa City, IA
Brian Westerlind
Iowa City, IA
*Matthew D. Karam, M.D.
Iowa City, IA
J. Lawrence Marsh, M.D.
Iowa City, IA
258. Implementation of a Service-Specific Template Integrating OSCE (Objective Structured Clinical Examination) and ACGME (Accreditation Council for Graduate Medical Education) Milestones: One Institution's Experience
*David J. Ruta, M.D.
Ann Arbor, MI
Mark S. Morris, M.D.
Ann Arbor, MI
Todd A. Irwin, M.D.
Ann Arbor, MI
James R. Holmes, M.D.
Ann Arbor, MI
259. Improving Resident Performance in Knee Arthroscopy: A Prospective Value Based Assessment of Cadaveric Skills Labs
*Christopher L. Camp, M.D.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
Terry D. Regnier
Rochester, MN
Karen M. Mills
Rochester, MN
Norman S. Turner, M.D.
Rochester, MN
- Lunch on your own
- 1:30 p.m.
Board of Directors' Meeting
- Dinner on your own

SUNDAY, APRIL 26, 2015

Departure

POSTER PRESENTATIONS

The following posters will be displayed in the Savannah Foyer 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.

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

Hand

1. Complications Following Upper Extremity Amputation or Replantation: A Review of 14,481 Cases
 *Arjun S. Sebastian, M.D.
 Rochester, MN
 Rajaie Hazboun, M.D.
 Rochester, MN
 Amy E. Wagie, B.S.
 Rochester, MN
 Elizabeth B. Habermann, Ph.D.
 Rochester, MN
 Sanjeev Kakar, M.D.
 Rochester, MN

2. Venous Bridge Arterial Grafting for Thumb Replantation
 *Eric R. Wagner, M.D.
 Rochester, MN
 Allen T. Bishop, M.D.
 Rochester, MN
 Alexander Y. Shin, M.D.
 Rochester, MN

Sports

3. High Tibial Osteotomy Accuracy: Computer Navigation vs. Conventional Techniques
 *Justin T. Chang
 Iowa City, IA
 Greg Scallon, M.D.
 Iowa City, IA
 Mitch W. Beckert
 Iowa City, IA
 Jeff C. Zavala
 Iowa City, IA
 John P. Albright, M.D.
 Iowa City, IA

4. Lateral Tibiofemoral Contact Pressure Following Meniscectomy and Transplantation
 *Sami Jaafar, M.D.
 Detroit, MI
 William Kesto, M.D.
 Detroit, MI
 Amanda Esquirol, Ph.D.
 Detroit, MI
 Allison Cracchiolo, B.S.
 Detroit, MI
 Todd J. Frush, M.D.
 Detroit, MI

5. MRI Findings in Patients with Symptomatic Synovial-Plical Complex of the Knee
 *Michael J. Nieto
 Iowa City, IA
 Christopher Anthony, M.D.
 Iowa City, IA
 Dylan Crebs
 Iowa City, IA
 Peter McCunniff, M.D.
 Iowa City, IA
 Mitchell Beckert
 Iowa City, IA
 Lee Bennett, M.D.
 Iowa City, IA
 Kevin Berbaum, Ph.D.
 Iowa City, IA
 John P. Albright, M.D.
 Iowa City, IA

6. Comparison of Tibial Tubercle-Trochlear Groove and Tibial Tubercle-Posterior Cruciate Ligament Distances
*Mark J. Heidenreich, B.S.
Rochester, MN
Christopher L. Camp, M.D.
Rochester, MN
Paul L. Sousa, B.S.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
7. Inter- and Intra-Observer Reliability in the Measurement of the Tibial Tubercle-Trochlear Groove Distance and Trochlea Morphology
*Nathan W. Skelley, M.D.
St. Louis, MO
Michael Friedman, M.D.
St. Louis, MO
Mark McGinnis, M.D.
St. Louis, MO
Christopher Smith, M.D.
St. Louis, MO
Travis Hillen, M.D.
St. Louis, MO
Matthew J. Matava, M.D.
St. Louis, MO
8. High Risk of Second Anterior Cruciate Ligament Injury for Female Soccer Players
*Alexander H. King, B.S.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Paul L. Sousa, B.S.
Rochester, MN
Bruce A. Levy, M.D.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
Diane L. Dahm, M.D.
Rochester, MN
9. PCLF as a Backbone for Chondrocyte Attachment and Proliferation Augmented by Platelet Lysate
*Eric R. Wagner, M.D.
Rochester, MN
Mahrokh Dadsetan, Ph.D.
Rochester, MN
Dalibel Bravo, M.D.
New York, NY
Andre van Wijnen, M.D.
Rochester, MN
Michael J. Yaszemski, M.D., Ph.D.
Rochester, MN
Sanjeev Kakar, M.D.
Rochester, MN
10. Olecranon Physeal Abnormalities in the Adolescent Athlete: A Case Series
*Rachel M. Frank, M.D.
Chicago, IL
Brett A. Lenart, M.D.
Chicago, IL
Mark S. Cohen, M.D.
Chicago, IL
11. All-Arthroscopic Suprapectoral vs. Open Subpectoral Tenodesis of the Long Head of the Biceps Brachii
*M. Mustafa Gombera, M.D.
Chicago, IL
Cynthia A. Kahlenberg, B.S.
Chicago, IL
Rueben Nair, M.D.
Chicago, IL
Matthew D. Saltzman, M.D.
Chicago, IL
Michael A. Terry, M.D.
Chicago, IL
12. Meniscal and Articular Cartilage Damage in Multiligament Knee Dislocation
*Paul L. Sousa, B.S.
Rochester, MN
Aaron J. Krych, M.D.
Rochester, MN
Alexander H. King, B.S.
Rochester, MN
William M. Engasser, B.A.
Rochester, MN
Michael J. Stuart, M.D.
Rochester, MN
Bruce A. Levy, M.D.
Rochester, MN

13. Pre-Season Ultrasound Evaluation of the Ulnar Collateral Ligament and Elbow in High School Baseball Pitchers
 *Nathan E. Marshall, M.D.
 Detroit, MI
 Robert A. Keller, M.D.
 Detroit, MI
 Hafeez Ahmed, M.D.
 Detroit, MI
 Courtney E. Scher, M.D.
 Detroit, MI
 Marnix Van Holsbeeck, M.D.
 Detroit, MI
 Vasilios Moutzourous, M.D.
 Detroit, MI
14. Combined ACL/MPFL Tears in Pediatric and Adolescent Patients Rarely Lead to Recurrent Patellar Instability
 *T. David Luo, M.D.
 Rochester, MN
 Amy L. McIntosh, M.D.
 Dallas, TX
 Mark S. Collins, M.D.
 Rochester, MN
 Diane L. Dahm, M.D.
 Rochester, MN
15. The Anteromedial and Posterolateral Bundles of the Human ACL Have Different Material and Microstructural Properties
 *Nathan W. Skelley, M.D.
 St. Louis, MO
 Ryan M. Castile, B.S.
 St. Louis, MO
 Timothy York, Ph.D.
 St. Louis, MO
 Viktor Gruev, Ph.D.
 St. Louis, MO
 Spencer P. Lake, Ph.D.
 St. Louis, MO
 Robert H. Brophy, M.D.
 St. Louis, MO
16. IVC Filter Placement for Pulmonary Embolism Prophylaxis in Patients with Pelvic Fractures
 *Hari Iyer, B.S.
 Chicago, IL
 David E. Mossad, B.S.
 Chicago, IL
 Leslie E. Schwindel, M.D.
 Chicago, IL
 Rajeev Garapati, M.D.
 Chicago, IL
17. Anatomic Reduction of Acetabular Fractures – When is the Best Time to Operate?
 *Steven K. Dailey, M.D.
 Cincinnati, OH
 Caleb Phillips, Ph.D.
 Boulder, CO
 Joseph M. Radley, M.D.
 Cincinnati, OH
 Michael T. Archdeacon, M.D.
 Cincinnati, OH
18. CT Scan After Acetabulum Fracture ORIF – Is There Value?
 Michael T. Archdeacon, M.D.
 Cincinnati, OH
 *Steven K. Dailey, M.D.
 Cincinnati, OH
 Kaylan N. McClary, B.S.
 Cincinnati, OH
19. ‘Two Finger Tightness’: What Is It?
 *William B. Acker, II, M.D.
 Ann Arbor, MI
 Bruce Tai, Ph.D.
 Ann Arbor, MI
 Barry Belmont, M.S.
 Ann Arbor, MI
 James R. Holmes, M.D.
 Ann Arbor, MI
 Albert Shih, Ph.D.
 Ann Arbor, MI
20. Antegrade vs. Retrograde Femoral Bone Graft Acquisition Using the Reamer-Irrigator-Aspirator
 *Richard L. Davis, II, M.D.
 Columbus, OH
 Jason R. Ferrel, M.D.
 Columbus, OH
 Nathan Johnson, B.S.
 Columbus, OH
 Joaquin A. Castaneda, M.D.
 Columbus, OH
 Benjamin C. Taylor, M.D.
 Columbus, OH

Trauma

16. IVC Filter Placement for Pulmonary Embolism Prophylaxis in Patients with Pelvic Fractures
 *Hari Iyer, B.S.
 Chicago, IL
 David E. Mossad, B.S.
 Chicago, IL
 Leslie E. Schwindel, M.D.
 Chicago, IL
 Rajeev Garapati, M.D.
 Chicago, IL

*Denotes Presenter

21. An Assessment of Mortality in Patients with Pelvic Fractures: A Population-Based Study
*Alesha Scott, D.O.
Detroit, MI
Rahul Vaidya, M.D.
Detroit, MI
Frederick E. Tonnos, D.O.
Detroit, MI
Ian Hudson, D.O.
Detroit, MI
Paul J. Dougherty, M.D.
Detroit, MI
Bryant W. Oliphant, M.D.
Detroit, MI
22. Combined Total Hip Arthroplasty with Open Reduction and Internal Fixation of Acetabular Discontinuity
*Clayton E. Strong, M.D.
Kansas City, KS
David W. Anderson, M.D., M.S.
Kansas City, KS
John M. Sokja, M.D.
Kansas City, KS
23. A Single-Person Reduction and Splinting Technique for Lower Extremity Injuries
*Nathan W. Skelley, M.D.
St. Louis, MO
William M. Ricci, M.D.
St. Louis, MO
24. Using Age and Fracture Patterns to Predict Clinical Improvement and Level of Activity Following Acetabular Fixation
*Ong-art Phruetthiphat, M.D.
Iowa City, IA
Chamnanni Rungprai, M.D.
Iowa City, IA
Nathan A. Nicholson, M.D.
Iowa City, IA
Matthew D. Karam, M.D.
Iowa City, IA
Brian O. Westerlind, B.S.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
J. Lawrence Marsh, M.D.
Iowa City, IA
25. Extra-Articular Gunshot Wounds to the Tibia and Fibula
*Jeffrey J. Sundblad, M.D.
Detroit, MI
Anish Abrol, B.S.
Detroit, MI
Rahul Vaidya, M.D.
Detroit, MI
Paul J. Dougherty, M.D.
Detroit, MI
26. Outcome of Periprosthetic Femoral Fractures with Retained Total Hip Arthroplasty Treated with a Polyaxial Locking Plate
*Martin F. Hoffmann, M.D.
Bochum, Germany
Sebastian Lotzien, M.D.
Bochum, Germany
Thomas A. Schildhauer, M.D.
Bochum, Germany
27. Articular Fractures of the Distal Humerus: Results of Internal Fixation
Suenghwan Jo, M.D.
Rochester, MN
Jose Jimenez Almonte, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN
*Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
28. Total Elbow Arthroplasty for the Salvage of Persistent Instability After Trauma
*Matthew C. Kergosien, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN
Bernard F. Morrey, M.D.
Rochester, MN
Shawn W. O'Driscoll, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
29. Plating of Pilon Fractures Based on the Orientation of the Fibular Shaft Component: A Biomechanical Study Evaluating Plate Stiffness in Cadaveric Fracture Models
*Gennadiy A. Busel, M.D.
St. Louis, MO
J. Tracy Watson, M.D.
St. Louis, MO

30. Narcotic Pain Medication Usage After Operative vs. Nonoperative Treatment of Proximal Humerus Fractures
 *Cory M. Stewart, M.D.
 Chicago, IL
 Harpreet Bawa, M.D.
 Chicago, IL
 Lewis L. Shi, M.D.
 Chicago, IL
 Douglas R. Dirschl, M.D.
 Chicago, IL
31. Total Hip Arthroplasty vs. Hemiarthroplasty for Displaced Femoral Neck Fractures: An Analysis of Complication Rates in 216,715 Patients from a National Database
 Min Lu, M.D.
 Chicago, IL
 *Jimmy J. Jiang, M.D.
 Chicago, IL
 Joseph B. Cohen, M.D.
 Chicago, IL
 Douglas R. Dirschl, M.D.
 Chicago, IL
 Hue H. Luu, M.D.
 Chicago, IL
32. CT or MRI? ED Utilization of Radiographic Studies to Evaluate Low Energy Hip and Pelvic Injuries in the Elderly Patient
 *Christina M. Ward, M.D.
 St. Paul, MN
 Gregory R. Hildebrand, M.D.
 St. Paul, MN
 Amanda V. Ly, B.S.
 St. Paul, MN
 Eileen E. Eggenberger M.D.
 St. Paul, MN
 Sandy Vang, B.S.
 St. Paul, MN
33. The Role of Fibular Fixation Following Plate Osteosynthesis in Distal Metaphyseal Tibia Fractures
 Ikemefuna Onyekwelu, M.D.
 Louisville, KY
 *Brent J. Sinicrope, M.D.
 Louisville, KY
 Craig S. Roberts, M.D.
 Louisville, KY
 John T. Reihl, M.D.
 Louisville, KY
 Michael J. Voor, Ph.D.
 Louisville, KY
34. Suprapatellar Intramedullary Nailing for Tibial Shaft Fractures
 *Robert E. Van Demark, III, M.D.
 Rochester, MN
 Eric R. Wagner, M.D.
 Rochester, MN
 Matthew T. Houdek, M.D.
 Rochester, MN
 S. Andrew Sems, M.D.
 Rochester, MN
35. A Comparison of Standard vs. MotionLoc Diaphyseal Screws Following Periprosthetic Fracture Fixation
 *Kimberly A. Jacobsen, M.D.
 St. Louis, MO
 Jeffrey B. Whiting, M.D.
 St. Louis, MO
 Heidi Israel, Ph.D.
 St. Louis, MO
 Lisa K. Cannada, M.D.
 St. Louis, MO
36. Utility of Three-Dimensional Computed Tomography for the Surgical Management of Rib Fractures
 *Benjamin R. Pulley, M.D.
 Columbus, OH
 T. Ty Fowler, M.D.
 Columbus, OH
 Thai Q. Trinh, M.D.
 Columbus, OH
 Benjamin C. Taylor, M.D.
 Columbus, OH

General

37. Integrating a Student-Run Smoking Cessation Clinic with an Orthopedic Department at a Level 1 Trauma Center
 *Brandon J. Kelly, B.S.
 Minneapolis, MN
 Joshua T. Olson, B.S.
 Minneapolis, MN
 Michael T. Torchia, B.S.
 Minneapolis, MN
 Peter A. Cole, M.D.
 St. Paul, MN

38. Are Shoes Used in the Operating Room a Source of Bacteria?
*Eric J. Mancini, M.D.
Southfield, MI
David C. Markel, M.D.
Southfield, MI
Jeffrey C. Flynn, Ph.D.
Southfield, MI
Nancy M. Jackson, Ph.D.
Southfield, MI
Joseph Karpinsky, B.S.
Southfield, MI
39. Current Quality Measurement Tools are Insufficient for Orthopedic Surgery
*Arjun S. Sebastian, M.D.
Rochester, MN
Amy E. Wagie, B.S.
Rochester, MN
Elizabeth B. Habermann, Ph.D.
Rochester, MN
Sanjeev Kakar, M.D.
Rochester, MN
40. Patient Factors Systematically Influence Hospital Length of Stay in Common Orthopedic Procedures
*J. Joseph Gholson, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
Nicolas O. Noiseux, M.D.
Iowa City, IA
41. Analyses of Distribution of 26,287 U.S. Orthopedic Surgeons Based on Population Density and Per Capita Income
*Mohammed S. Hussain
Chicago, IL
Waqas M. Hussain, M.D.
Moline, IL
Haroon M. Hussain M.D.
Cincinnati, OH
Hristo Piponov
Sofia, Bulgaria
J. Martin Leland, III, M.D.
Chicago, IL
Douglas R. Dirschl, M.D.
Chicago, IL
Lewis L. Shi, M.D.
Chicago, IL

42. An Analysis of Orthopedic Research Produced During the Conflicts in Iraq and Afghanistan: The Top 20 Most Cited Articles
*George C. Balazs, M.D.
Bethesda, MD
Jonathan F. Dickens, M.D.
Bethesda, MD
Alaina M. Brelin, M.D.
Bethesda, MD
Jared A. Wolfe, M.D.
Bethesda, MD
John-Paul H. Rue, M.D.
Annapolis, MD
Benjamin K. Potter, M.D.
Bethesda, MD

Foot and Ankle

43. Fixed Bearing vs. Mobile Bearing Total Ankle Replacement: A Comparative Study
Chamnanni Rungprai, M.D.
Iowa City, IA
Phinit Phisitkul, M.D.
Iowa City, IA
Joshua N. Tennant, M.D.
Iowa City, IA
*John E. Femino, M.D.
Iowa City, IA
Annunziato Amendola, M.D.
Iowa City, IA
44. Outcomes of Neuroma Resection and Implantation into the Muscle in Lower Extremity
*Chamnanni Rungprai, M.D.
Iowa City, IA
Ong-art Phruetthiphat, M.D.
Iowa City, IA
Phinit Phisitkul, M.D.
Iowa City, IA

45. Outcomes of Open and Percutaneous Endoscopically-Assisted Calcaneal Osteotomy in Patients with Varus and Valgus Hindfoot: Comparative Study
 *Chamnanni Rungprai, M.D.
 Iowa City, IA
 Biagio Zampogna, M.D.
 Iowa City, IA
 Sebastiano Vasta, M.D.
 Iowa City, IA
 Ong-art Phruetthiphat, M.D.
 Iowa City, IA
 John E. Femino, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA
46. Comparison Outcomes of Total Ankle Replacement With and Without Achilles Tendon Lengthening
 *Chamnanni Rungprai, M.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA
 John E. Femino, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
47. Outcomes of Open and Minimally Invasive Gastrosoleus Lengthening Techniques: A Comparative Study
 *Chamnanni Rungprai, M.D.
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 Ong-art Phruetthiphat, M.D.
 Iowa City, IA
 John E. Femino, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA
48. Comparison of Perioperative Complications and Hospitalization Outcomes After Ankle Arthrodesis vs. Total Ankle Arthroplasty from 2002-2011
 Oliver N. Schipper, M.D.
 Chicago, IL
 *Jimmy J. Jiang, M.D.
 Chicago, IL
 Lan Chen, M.D.
 Evanston, IL
 Brian C. Toolan, M.D.
 Chicago, IL
49. A Novel Algorithm for Isolated Weber B Ankle Fractures: A Retrospective Review of 51 Nonoperatively Treated Patients
 *William B. Acker, M.D.
 Ann Arbor, MI
 Todd A. Irwin, M.D.
 Ann Arbor, MI
 Amy McKinney
 Ann Arbor, MI
 Joshua Murphy, M.D.
 Ann Arbor, MI
 James R. Holmes, M.D.
 Ann Arbor, MI
50. Biomechanical Effects of Tibialis Anterior Tendon Transfers
 *Matthew J. Dubiel, M.D.
 Grand Rapids, MI
 James R. Jastifer, M.D.
 Kalamazoo, MI
 Philip D. Nowicki, M.D.
 Grand Rapids MI
 Peter Gustafson, M.D.
 Grand Rapids, MI
51. Cadaveric Analysis of the Distal Tibiofibular Syndesmosis
 Michael B. Lilyquist, M.D.
 Kansas City, MO
 *Adam F. Shaw, M.D.
 Kansas City, MO
 Kevin H. Latz, M.D.
 Kansas City, MO
 Brock T. Wentz, M.D.
 Kansas City, MO
52. The Association Between Medial Malleolar Fracture Geometry, Injury Mechanism, and Syndesmotic Disruption
 Nabil A. Ebraheim, M.D.
 Toledo, OH
 *Jiayong Liu, M.D.
 Toledo, OH
 John T. Weston, M.D.
 Toledo, OH
 Todd Ludwig, M.S.
 Toledo, OH
 Jingwei Zhang, M.D.
 Toledo, OH

Shoulder

53. Shoulder Arthroplasty for Post-Traumatic Avascular Necrosis of the Humeral Head
*Bradley S. Schoch, M.D.
Rochester, MN
Jonathan D. Barlow, M.D.
Columbus, OH
Robert H. Cofield, M.D.
Rochester, MN
John W. Sperling, M.D.
Rochester, MN
54. Septic Arthritis of the Shoulder: A Comparison of Treatment Methods
*Jimmy J. Jiang, M.D.
Chicago, IL
Lewis L. Shi, M.D.
Chicago, IL
Daniel P. Mass, M.D.
Chicago, IL
Jovito G. Angeles, M.D.
Chicago, IL
55. Reverse Total Shoulder Arthroplasty Patients with a Proximal Humerus Fracture Have Worse Perioperative Outcomes: An Analysis of 5,644 Cases
*Jimmy J. Jiang, M.D.
Chicago, IL
Aneet S. Toor, M.D.
Chicago, IL
Lewis L. Shi, M.D.
Chicago, IL
Jason L. Koh, M.D.
Chicago, IL
56. Long-Term Outcomes of Glenohumeral Arthrodesis
Eric R. Wagner, M.D.
Rochester, MN
Shumaila Sarfani, B.S.
Rochester, MN
*O. Brant Nikolaus, M.D.
Rochester, MN
Joaquin Sanchez-Sotelo, M.D.
Rochester, MN
Bassem T. Elhassan, M.D.
Rochester, MN
57. Generic Targeting Guides vs. Traditional Instrumentation for Glenoid Component Placement in Shoulder Arthroplasty
*Ryan P. Mulligan, M.D.
Memphis, TN
Frederick M. Azar, M.D.
Memphis, TN
Thomas W. Throckmorton, M.D.
Memphis, TN
58. Shoulder Arthroplasty in Patients with Osteo-Chondrodysplasia
Bradley S. Schoch, M.D.
Rochester, MN
Jean-David Werthel, M.D.
Rochester, MN
*Benjamin J. Allen, M.D.
Rochester, MN
Robert H. Cofield, M.D.
Rochester, MN
John W. Sperling, M.D.
Rochester, MN
Mark E. Morrey, M.D.
Rochester, MN
59. Shoulder Arthroplasty for Atraumatic Avascular Necrosis of the Humeral Head
*Bradley S. Schoch, M.D.
Rochester, MN
Jonathan D. Barlow, M.D.
Columbus, OH
Robert H. Cofield, M.D.
Rochester, MN
John W. Sperling, M.D.
Rochester, MN
60. Wear Rates of Retentive vs. Nonretentive Reverse Total Shoulder Arthroplasty Liners in an In Vitro Wear Simulation
*Shannon R. Carpenter, M.D.
Royal Oak, MI
Daphne Pinkas, M.D.
Royal Oak, MI
Michael Newton, B.S.
Royal Oak, MI
Michael Kurdziel, M.S.
Royal Oak, MI
Kevin Baker, Ph.D.
Royal Oak, MI
J. Michael Wiater, M.D.
Royal Oak, MI

61. Humeral Stem Revision vs. Retention in the Conversion of Failed Shoulder Arthroplasty to Reverse Total Shoulder Arthroplasty: The Utilization of a Platform System
 *Matthew F. Dilisio, M.D.
 Omaha, NE
 Lindsay R. Miller, M.S.
 Boston, MA
 Elana J. Siegel, M.S.
 Boston, MA
 Laurence D. Higgins, M.D.
 Boston, MA
65. Switching to a Pediatric Dose O-Arm Protocol in Spine Surgery Significantly Reduced Patient Radiation Exposure
 *T. David Luo, M.D.
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 Amy L. McIntosh, M.D.
 Dallas, TX
 Beth A. Schueler, Ph.D.
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 Jennifer A. Winkler, B.S.
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 Anthony A. Stans, M.D.
 Rochester, MN
 A. Noelle Larson, M.D.
 Rochester, MN

Total Joint Arthroplasty

62. Disclosing Agents for the Intraoperative Identification of Occult Biofilms on Orthopedic Implants
 *Joshua A. Parry, M.D.
 Rochester, MN
 Melissa Karau, B.S.
 Rochester, MN
 Robin Patel, M.D.
 Rochester, MN
63. Complications and Readmissions After Revision Hip Arthroplasty: Analysis of ACS-NSQIP 2006-2012
 *Arjun S. Sebastian, M.D.
 Rochester, MN
 Sanjeev Kakar, M.D.
 Rochester, MN
 Daniel Ubl, B.S.
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 Elizabeth B. Habermann, Ph.D.
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 Mark W. Pagnano, M.D.
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64. Risk Factors for Surgical Site Infection After Posterior Cervical Spine Surgery: Analysis from ACS-NSQIP 2005-2012
 *Arun S. Sebastian, M.D.
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 Sanjeev Kakar, M.D.
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 Elizabeth B. Habermann, Ph.D.
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 Amy E. Wagie, B.S.
 Rochester, MN
 Paul M. Huddleston, M.D.
 Rochester, MN
 Michael J. Yaszemski, M.D., Ph.D.
 Rochester, MN
 Ahmad Nassr, M.D.
 Rochester, MN
67. Proximal Junctional Kyphosis in Spinal Deformity Surgery Involving Pelvic Fixation: Does the Metal Matter?
 *Michael D. Hellman, M.D.
 Chicago, IL
 Bryan D. Haughom, M.D.
 Chicago, IL
 Mark F. Kurd, M.D.
 Chicago, IL
 Gregory L. Cvetanovich, M.D.
 Chicago, IL
 Nicholas M. Brown, M.D.
 Chicago, IL
 Christopher J. DeWald, M.D.
 Chicago, IL

Spine

64. Cumulative Radiation Exposure with EOS® Imaging Compared to Standard Spine Radiographs
 *T. David Luo, M.D.
 Rochester, MN
 Anthony A. Stans, M.D.
 Rochester, MN
 Beth A. Schueler, Ph.D.
 Rochester, MN
 A. Noelle Larson, M.D.
 Rochester, MN

68. Comparison of Intraoperative Stitched Fluoroscopic Images to Postoperative Standing Full Spine Radiographs
 *Erica J. Petersen, M.D.
 Minneapolis, MN
 Jonathan N. Sembrano, M.D.
 Minneapolis, MN
 Sharon C. Yson, M.D.
 Minneapolis, MN
 David W. Polly, Jr., M.D.
 Minneapolis, MN
69. Renal Impairment as a Continuous Variable in Short-Term Morbidity Risk Following Lumbar Spine Surgeries
 *Christopher T. Martin, M.D.
 Iowa City, IA
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Stuart L. Weinstein, M.D.
 Iowa City, IA
70. Incidence and Risk Factors for Early Wound Complications After Spinal Arthrodesis in Children: Analysis of 30-Day Follow-Up Data from the ACS-NSQIP
 *Christopher T. Martin, M.D.
 Iowa City, IA
 Andrew J. Pugely, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Ryan M. Ilgenfritz, M.D.
 Iowa City, IA
 Stuart L. Weinstein, M.D.
 Iowa City, IA
71. Surgical Management of Scoliosis in Pediatric Jehovah's Witness Patients
 *Jane Hoashi, M.D.
 Cleveland, OH
 Joel D. Kolmodin, M.D.
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 Olubusola Brimmo, M.D.
 Cleveland, OH
 Thomas E. Kuivila, M.D.
 Cleveland, OH
 David P. Gurd, M.D.
 Cleveland, OH
 Alan R. Gurd, M.D.
 Cleveland, OH
 Ryan C. Goodwin, M.D.
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72. Causes and Risk Factors for 30-Day Unplanned Readmissions After Pediatric Spinal Deformity Surgery
 *Andrew J. Pugely, M.D.
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 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Ryan M. Ilgenfritz, M.D.
 Iowa City, IA
 Stuart L. Weinstein, M.D.
 Iowa City, IA
73. The Incidence and Risk Factors for Short-Term Morbidity and Mortality in Pediatric Deformity Spinal Surgery
 *Andrew J. Pugely, M.D.
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 Christopher T. Martin, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Ryan M. Ilgenfritz, M.D.
 Iowa City, IA
 Stuart L. Weinstein, M.D.
 Iowa City, IA
74. Causes and Risk Factors for 30-Day Unplanned Readmissions After Cervical Spine Surgery
 *Andrew J. Pugely, M.D.
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 Christopher T. Martin, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 Christopher M. Graves, M.D.
 Iowa City, IA
 Sergio A. Mendoza-Lattes, M.D.
 Iowa City, IA
75. Lumbar Dorsal Root Ganglia Location: An Anatomic and MRI Assessment
 *Michael P. Silverstein, M.D.
 Cleveland, OH
 Lynn J. Romrell, Ph.D.
 Tallahassee, FL
 Edward C. Benzel, M.D.
 Cleveland, OH
 Nicolas Thompson, Ph.D.
 Cleveland, OH
 Sandra Griffith, Ph.D.
 Cleveland, OH
 Isador H. Lieberman, M.D.
 Plano, TX

76. Number of Recent Inpatient Admissions as a Risk Factor for Increased Complications, Length-of-Stay, and Cost in Patients Undergoing Posterior Lumbar Fusion
 *Ananth S. Eleswarapu, M.D.
 Chicago, IL
 Mark M. Mikhael, M.D.
 Glenview, IL
 Jason L. Koh, M.D.
 Evanston, IL
77. A Classification System for Adjacent Segment Disease Following Lumbar Spine Fusion
 *Eric B. Sundberg, M.D.
 Stanford, CA
 Blaine T. Manning, B.S.
 Chicago, IL
 Howard S. An, M.D.
 Chicago, IL
- Pediatrics**
78. Outcomes of Treatment in Complex Idiopathic Clubfoot
 *Joshua B. Holt, M.D.
 Iowa City, IA
 Heather A. Campion, M.D.
 Iowa City, IA
 Lori A. Dolan, Ph.D.
 Iowa City, IA
 Jose A. Morcuende, M.D., Ph.D.
 Iowa City, IA
79. Guided Growth for Correction of Angular Deformity in Fibular Deficiency
 *Joshua S. Griffin, M.D.
 Houston, TX
 Kevin M. Smith, M.D.
 Houston, TX
 Allison C. Scott, M.D.
 Houston, TX
80. Epiphysiodesis for Correction of Leg Length Discrepancy in Fibular Deficiency
 *Joshua S. Griffin, M.D.
 Houston, TX
 Allison C. Scott, M.D.
 Houston, TX
81. Preoperative Fears in Pediatric Orthopedic Surgery Patients
 *Lauren Rife, B.S.
 Akron, OH
 Kenneth T. Bono, M.D.
 Akron, OH
 Amy Krahe, M.S.
 Akron, OH
 Melanie A. Morscher, B.S.
 Akron, OH
 Michelle Peterson
 Akron, OH
 M. David Gothard, M.S.
 East Canton, OH
82. Interleukin-6 in Pediatric Musculoskeletal Infection: A Pilot Study
 *Byron F. Stephens, M.D.
 Memphis, TN
 Jeffrey R. Sawyer, M.D.
 Memphis, TN
 William C. Warner, Jr., M.D.
 Memphis, TN
 James H. Beaty, M.D.
 Memphis, TN
 David D. Spence, M.D.
 Memphis, TN
 Alice A. Moisan, B.S.
 Memphis, TN
 Richard A Smith, Ph.D.
 Memphis, TN
 Derek M. Kelly, M.D.
 Memphis, TN
83. Temperature Changes When Drilling Near the Distal Femoral Physis in a Skeletally Immature Ovine Model
 Allison M. Tenfelde, M.D.
 Warren, MI
 Amanda O. Esquivel, Ph.D.
 Warren, MI
 Allison M. Cracchiolo, B.S.
 Warren, MI
 *Stephen E. Lemos, M.D., Ph.D.
 Warren, MI
84. Outcomes of Unstable Pelvic Fractures Managed with Percutaneous Iliosacral Screws in a Pediatric Population
 *Shaunette Davey, D.O.
 El Paso, TX
 Jordan Salmon, B.S.
 El Paso, TX
 Preet Gurasamy, B.S.
 El Paso, TX
 Enes M. Kanlic, M.D.
 El Paso, TX
 Amr A. Abdelgawad, M.D.
 El Paso, TX

Tumor

85. Does Radiation Therapy Affect Survival and Functional Outcome of Non-Hodgkin Lymphoma of Bone?
Ishaq Ibrahim, B.S.
Chicago, IL
*Bryan D. Haughom, M.D.
Chicago, IL
Yale A. Fillingham, M.D.
Chicago, IL
Steven Gitelis, M.D.
Chicago, IL
86. Cause-Specific Survival and Prognostic Factors for Survival in Ewing Sarcoma Using the Surveillance, Epidemiology, and End Results (SEER) Program Database
*Kyle R. Duchman, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
Benjamin J. Miller, M.D.
Iowa City, IA
87. Chordoma of the Spine and Sacrum: Outcomes and Risk Factors for Survival Using the SEER Program Database
*Kyle R. Duchman, M.D.
Iowa City, IA
Andrew J. Pugely, M.D.
Iowa City, IA
Yubo Gao, Ph.D.
Iowa City, IA
Christopher T. Martin, M.D.
Iowa City, IA
Michael P. Kelly, M.D.
St. Louis, MO
Benjamin J. Miller, M.D.
Iowa City, IA
88. Reamer/Irrigator/Aspirator (RIA) and Intramedullary Fixation for Impending Pathologic Femur Fracture
John W. Munz, M.D.
Houston, TX
*Andrea L. Gale, M.D.
Houston, TX
Rex A. W. Marco, M.D.
Houston, TX

Knee

89. Does Obesity Affect Short-Term Complication Rates and Length of Hospitalization Following Unicompartmental Knee Arthroplasty?
*Bryan D. Haughom, M.D.
Chicago, IL
William W. Schairer, M.D.
New York, NY
Michael D. Hellman, M.D.
Chicago, IL
Benedict U. Nwachukwu, M.D.
New York, NY
Brett R. Levine, M.D.
Chicago, IL
90. Tibial Alignment in Revision Total Knee Arthroplasty
*Kevin M. Smith, M.D.
Houston, TX
Stephen J. Incavo, M.D.
Houston, TX
Andrew Moorman, B.S.
Houston, TX
91. Is Selective Patellar Resurfacing an Acceptable Practice in Patients Undergoing Primary Total Knee Arthroplasty?
*Omar Haque
Rochester, MN
Hilal Maradit Kremers, M.D.
Rochester, MN
Walter K. Kremers, Ph.D.
Rochester, MN
Daniel J. Berry, M.D.
Rochester, MN
David G. Lewallen, M.D.
Rochester, MN
Robert T. Trousdale, M.D.
Rochester, MN
Rafael J. Sierra, M.D.
Rochester, MN

92. The Impact of Total Joint Arthroplasty on Return to Sexual Function in Young, Active Patients
 *Ryan M. Nunley, M.D.
 St. Louis, MO
 Denis Nam, M.D.
 St. Louis, MO
 Ravi K. Bashyal, M.D.
 Evanston, IL
 Craig J. Della Valle, M.D.
 Chicago, IL
 William G. Hamilton, M.D.
 Arlington, VA
 Michael E. Berend, M.D.
 Mooresville, IN
 Javad Parvizi, M.D.
 Philadelphia, PA
 John C. Clohisy, M.D.
 St. Louis, MO
 Robert L. Barrack, M.D.
 St. Louis, MO
93. Post-Traumatic Total Knee Arthroplasty Continues to Have Worse Outcome Total Knee for Osteoarthritis
 *Matthew T. Houdek, M.D.
 Rochester, MN
 Chad D. Watts, M.D.
 Rochester, MN
 Eric R. Wagner, M.D.
 Rochester, MN
 Steven F. Shannon, M.D.
 Rochester, MN
 Matthew P. Abdel, M.D.
 Rochester, MN
 S. Andrew Sems, M.D.
 Rochester, MN
 Rafael J. Sierra, M.D.
 Rochester, MN
94. Total Knee Arthroplasty in the Medicaid Population
 *Brian E. Schwartz M.D.
 Chicago, IL
 David E. Mossad, B.S.
 Chicago, IL
 Vincent M. Moretti, M.D.
 Chicago, IL
 Alfonso Mejia, M.D.
 Chicago, IL
95. Orthopedic Surgeons Rank Low in Total Medicare Payments
 Daniel A. Belatti, B.S.
 Iowa City, IA
 *Andrew J. Pugely, M.D.
 Iowa City, IA
 Annunziato Amendola, M.D.
 Iowa City, IA
 Phinit Phisitkul, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
96. Low Socioeconomic Status Increases Risk for 30-Day Readmission Following Total Knee Arthroplasty
 *James A. Keeney, M.D.
 St. Louis, MO
 Ryan M. Nunley, M.D.
 St. Louis, MO
 Staci R. Johnson, M.S.
 St. Louis, MO
 Denis Nam, M.D.
 St. Louis, MO
 Robert L. Barrack, M.D.
 St. Louis, MO
97. The Cumulative Risk of Re-Dislocation After Revision THA Performed for Instability Increases Close to 35% at 15 Years
 Suenghwan Jo, M.D.
 Rochester, MN
 Jose Jimenez Almonte, M.S.
 Rochester, MN
 *Rafael J. Sierra, M.D.
 Rochester, MN

Hip

98. Does Neuraxial Anesthesia Decrease the Rate of Postoperative Complications and Blood Transfusions? An Analysis of 29,452 Primary Total Hip Arthroplasty Cases
 *Brian D. Haughom, M.D.
 Chicago, IL
 William W. Schairer, M.D.
 New York, NY
 Michael D. Hellman, M.D.
 Chicago, IL
 Benedict U. Nwachukwu, M.D.
 New York, NY
 Brett R. Levine, M.D.
 Chicago, IL

99. IV Tranexamic Acid is Associated with Significantly Decreased Transfusion Rates and No Increased Risk of Thromboembolic Disease in Patients Undergoing Periacetabular Osteotomy
 Andrew J. Bryan, M.D.
 Rochester, MN
 *Rafael J. Sierra, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
100. Combined Femoroacetabular Anteversion: Does Ethnicity, Body Size, or Gender Play a Role? A CT Scan Study
 *Brian E. Schwartz, M.D.
 Chicago, IL
 Stephen N. Schwartz, B.S.
 Chicago, IL
 Domenic P. Esposito, M.D.
 Chicago, IL
 Vincent M. Moretti, M.D.
 Chicago, IL
 Ritesh R. Shah, M.D.
 Chicago, IL
101. Total Hip Arthroplasty in Avascular Necrosis: Perioperative Outcomes and National Trends
 *Brian E. Schwartz, M.D.
 Chicago, IL
 David E. Mossad, B.S.
 Chicago, IL
 Vincent M. Moretti, M.D.
 Chicago, IL
 Ritesh R. Shah, M.D.
 Chicago, IL
102. Relationship Between Pelvic Incidence and Osteoarthritis of the Hip
 Jeremy J. Gebhart, M.D.
 Cleveland, OH
 *Michael Bohl, B.S.
 Providence, RI
 Jonathan J. Streitt, M.D.
 Cleveland, OH
 Raymond W. Liu, M.D.
 Cleveland, OH
103. Non-Constrained Cemented Liners in Revision Total Hip Arthroplasty: 10-Year Outcomes
 *Diren Arsoy, M.D.
 Rochester, MN
 Matthew P. Abdel, M.D.
 Rochester, MN
 Joseph R. Cass, M.D.
 Rochester, MN
 Robert T. Trousdale, M.D.
 Rochester, MN
104. Dual Mobility Liners for Revision THA Decrease Early Dislocation
 Salvatore J. Frangiamore, M.D.
 Cleveland, OH
 *Nicholas Gajewski, B.S.
 Cleveland, OH
 Carlos A. Higuera, M.D.
 Cleveland, OH
 Wael K. Barsoum, M.D.
 Cleveland, OH
 Bryan D. Springer, M.D.
 Charlotte, NC
 Robert M. Molloy, M.D.
 Cleveland, OH
105. Salvage of Monoblock Metal-on-Metal Acetabular Components Utilizing a Dual-Mobility Bearing
 Herman G. Botero, D.O.
 Chicago, IL
 Darren R. Plummer, M.S.
 Chicago, IL
 Keith R. Berend, M.D.
 New Albany, OH
 James W. Pritchett, M.D.
 Seattle, WA
 Adolph V. Lombardi, Jr., M.D.
 New Albany, OH
 *Craig J. Della Valle, M.D.
 Chicago, IL
106. Non-Modular, Fluted, Tapered, Grit-Blasted Titanium-Alloy Revision Stems: Early North American Results
 *Michael D. Hellman, M.D.
 Chicago, IL
 Richard A. Jacobson, M.D.
 Chicago, IL
 Bryan D. Haughom, M.D.
 Chicago, IL
 Thymur A. Chaudhry, B.S.
 Chicago, IL
 Nicholas M. Brown, M.D.
 Chicago, IL
 Brett R. Levine, M.D.
 Chicago, IL

107. Increased Risk of Periprosthetic Femur Fractures Associated with a Unique Cementless Stem Design
 *Chad D. Watts, M.D.
 Rochester, MN
 Matthew P. Abdel, M.D.
 Rochester, MN
 David G. Lewallen, M.D.
 Rochester, MN
 Daniel J. Berry, M.D.
 Rochester, MN
 Arlen D. Hanssen, M.D.
 Rochester, MN
108. ALVAL Scores Do Not Correlate with Metal Ion Levels or Unreadable Synovial Fluid WBC Counts
 *Darren R. Plummer, M.S.
 Chicago, IL
 Paul Yi, M.D.
 San Francisco, CA
 Joshua J. Jacobs, M.D.
 Chicago, IL
 Robert Urban, Ph.D.
 Chicago, IL
 Mario Moric, M.S.
 Chicago, IL
 Craig J. Della Valle, M.D.
 Chicago, IL
109. Eliminating Blood Transfusion in Primary Total Hip Arthroplasty: An Achievable Goal?
 *Joshua B. Holt, M.D.
 Iowa City, IA
 Benjamin J. Miller, M.D.
 Iowa City, IA
 John J. Callaghan, M.D.
 Iowa City, IA
 Charles R. Clark, M.D.
 Iowa City, IA
 Melissa D. Willenborg, M.D.
 Iowa City, IA
 Nicolas O. Noiseux, M.D.
 Iowa City, IA
110. Total Hip Arthroplasty Survival and Complications as a Function of Age
 *Eric R. Wagner, M.D.
 Rochester, MN
 Cathy D. Schleck, B.S.
 Rochester, MN
 W. Scott Harmsen, M.S.
 Rochester, MN
 Daniel J. Berry, M.D.
 Rochester, MN
111. Intraoperative Radiograph in Total Hip Replacement Performed in the Lateral Decubitus Position: Help or Hindrance?
 Saran Tantavisut, M.D.
 Iowa City, IA
 Nicolas O. Noiseux, M.D.
 Iowa City, IA
 Melissa Willenborg, M.D.
 Iowa City, IA
 Yubo Gao, Ph.D.
 Iowa City, IA
 *John J. Callaghan, M.D.
 Iowa City, IA
- Resident Education**
112. An Analysis of the Orthopedic In-Training Examination Journal References: Have They Changed 10 Years Later?
 *Bryan D. Haughom, M.D.
 Chicago, IL
 Ishaq Ibrahim, B.S.
 Chicago, IL
 Paul H. Yi, M.D.
 Chicago, IL
 Michael D. Hellman, M.D.
 Chicago, IL
 David Levy, M.D.
 Chicago, IL
 Brett R. Levine, M.D.
 Chicago, IL
113. The Effect of Simulation Training on Fluoroscopy Attempts Needed for Accurate Percutaneous K-Wire Placement: A Randomized Controlled Trial
 *Rachel M. Frank, M.D.
 Chicago, IL
 Laith M. Al-Shihabi, M.D.
 Chicago, IL
 Brandon Erickson, M.D.
 Chicago, IL
 Robert W. Wysocki, M.D.
 Chicago, IL
 Brett R. Levine, M.D.
 Chicago, IL
114. Optimizing Orthopedic Residency: A Comparison of Resident and Program Director Perspectives on Time Spent in Training
 *Christopher L. Camp, M.D.
 Rochester, MN
 John R. Martin, M.D.
 Rochester, MN
 Matthew D. Karam, M.D.
 Iowa City, IA
 Daniel B. Ryssman, M.D.
 Rochester, MN
 Norman S. Turner, M.D.
 Rochester, MN

IMPORTANT INFORMATION REGARDING THIRTY-THIRD ANNUAL MEETING

WHAT IS INCLUDED IN YOUR REGISTRATION FEE?

See page 4 regarding the registration fee for the Wednesday, April 22, 2015, pre-meeting course “The Athlete’s Knee: Meniscus, Ligament, Cartilage, and Patellofemoral”.

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
- “Taste of Carolina” Dinner Party on Friday
- Meeting Expenses - As with all meetings, your registration fee helps to cover all expenses of the annual meeting, such as name badges, printing, postage, audiovisual equipment, etc.

Spouse/Guest Registration

- Continental Breakfast at Spouse/Guest Hospitality on Thursday and Friday
- Welcome Reception and Buffet Dinner on Wednesday
- “Taste of Carolina” Dinner Party 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 2015 Meeting Registration Fees are as follows:

	On or before March 19, 2015	After March 19, 2015
Member	\$850.00	\$950.00
Nonmember	\$1,250.00	\$1,350.00
Resident/Fellow/Allied Health	\$500.00	\$600.00
Spouse/Guest of Members and Nonmembers	\$100.00	\$100.00
Spouse/Guest of Residents, Fellows, and Allied Health	\$0.00	\$0.00
Exhibitor —company representative (includes Wed. & Fri. dinners)	\$300.00	\$300.00
Exhibitor —company representative (includes Wed. dinner)	\$150.00	\$150.00
Exhibitor —company representative (includes Fri. dinner)	\$150.00	\$150.00
Exhibitor —company representative (no dinners included)	\$0.00	\$0.00

POLICY REGARDING CHILDREN’S ATTENDANCE

Children

All children attending the Thirty-Third Annual Meeting are welcome to attend various functions with a parent. Should children wish to attend the evening functions in the MAOA program, a ticket must be purchased in advance for each event. Children’s evening meal tickets (ages 5-11) for the Wednesday and Friday children’s buffet may be purchased via the MAOA web site when registering for the meeting. At The Westin Hilton Head Island Resort, children age 18 and under stay free of charge, when sharing a room with an adult.

THE WESTIN HILTON HEAD ISLAND RESORT

Hilton Head Island may only be 12 miles by 5 miles wide, but you'll find everything you need here for the ultimate island retreat. Enjoy days basking in the sun, sand and surf of some of the best beaches in the country. Get into the swing of things at your choice of 24 world-class golf courses and 350 tennis courts, embark on a culinary journey at one of over 250 restaurants, or simply walk your way to a new outdoor adventure. Experience Hilton Head Island, the most family-friendly destination in the world!

The Westin Hilton Head Island Resort & Spa, located along the Atlantic Coast of South Carolina, has completed a thirty million dollar full resort renovation. The new luxury resort design features a natural, coastal inspired color palette with Southern elements. This rejuvenation has solidified The Westin Hilton Head Island Resort & Spa as the Southeast's premier oceanfront destination that delivers world-class instinctive service. This 416-room beachfront resort has been transformed to indulge the guests with the latest Westin signature touches that will delight all. Nestled on the beach, this Hilton Head Island Resort is within minutes of the Barony Course at Port Royal Golf Club. Enjoy the sandy beaches and challenge the spirit at the Port Royal Golf & Tennis Club. The resort is perfect for family biking or exploring the area's rich history and unparalleled natural surroundings.

MAOA has been allotted "Run of the House" accommodations, as well as Carolina King Suites. This means that the special MAOA "Run of House" room rate will include rooms in all categories. Accommodations will be assigned in the order received. Early registration is recommended for choice room assignments. These special MAOA group room rates are valid three (3) days preceding and three (3) days following the meeting.

The MAOA daily room rate is as follows:

Single or Double Run of House Room	\$215.00
Carolina King Suite	\$315.00

Note: The above European Plan (no meals included) rates are subject to applicable state and local taxes, which are currently 11% and subject to change.

RESORT AMENITIES PROGRAM: The Westin Hilton Head Island Resort charges a daily Resort Fee of \$20.00 per room per day. **This fee has been reduced to \$10.00 daily for all attendees of the MAOA meeting who are booked through MAOA registration.** The resort fee includes shuttle service to resort golf, tennis, and a local shopping mall, local and 800 toll-free phone calls up to 60 minutes, access to Westin Workout® Fitness Studio, self-parking, as well as wireless internet access.

REGISTER EARLY

Early registration is recommended. The Westin Hilton Head Island Resort is holding a block of rooms for attendees, and these rooms may be obtained by making reservations through the MAOA web site (www.maoa.org). This allows MAOA members first choice of these rooms. Reservation requests from MAOA members will be given priority until March 19, 2015. Following that date, reservations will be accepted on space availability basis, and if the group rate is not available, the prevailing hotel rack rates will apply.

GENERAL

HOW TO REGISTER AND RESERVE A HOTEL ROOM

Visit the Mid-America Orthopaedic Association web site (www.maoa.org) to register for the meeting and reserve a hotel room. Click on "2015 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 19, 2015, or earlier if all hotel space has been allocated.

HOTEL CONFIRMATION AND CANCELLATION POLICY

When requesting your room reservation, you will need a valid American Express, Diners Club, Discover Card, Visa, or MasterCard number and expiration date. Your Credit Card number will be held to confirm your room. There will be no charge for change/cancellation if notice is received at least five (5) days prior to arrival and a cancellation number is obtained. A charge of one (1) night's room plus tax will be charged for any cancellations within five (5) days of arrival. 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 REGISTRATION FEE CANCELLATION POLICY

Full meeting registration fees (less \$50.00 administrative fee) will be refunded if notice is received by March 19, 2015. All meeting cancellations must be received in writing. No refund of meeting registration fee will be granted if notice is received March 20, 2015, or later.

GROUND TRANSPORTATION

AIRPORT/HOTEL TRANSPORTATION

You have an option of flying directly into Hilton Head Island or to Savannah, Georgia. The Westin Hilton Head Island Resort is approximately 10 minutes from the Hilton Head Island Airport. Palmetto Transportation is providing MAOA a discounted roundtrip per person fare of \$35.00 inclusive of gratuity to/from the Hilton Head Island Airport.

The drive from the Savannah International Airport to the Westin Hilton Head Resort is approximately 50 minutes. The Palmetto Transportation discounted roundtrip rate is \$79.00 per person plus gratuity to/from the Savannah International Airport. Reservations can be made on line (www.maoa.org) when registering for the meeting.

Local taxi service is available from both airports. However, when returning to the airport from the resort, taxi availability can be a problem especially on Saturday and Sunday. Pre-arranged transportation is suggested.

WEATHER

Weather on Hilton Head Island is ideal for those wanting to explore the outdoors and soak up the sunshine. Hilton Head Island and the surrounding Low Country features a balmy, subtropical climate year round. The month of April is characterized by rising daily high temperatures. The daily highs increase from 72°F to 80°F over the course of the month, with the evenings drop below 63°F only one day in ten.

SUGGESTED CLOTHING

Business attire is recommended for all podium/poster presenters. Casual dress will be the appropriate attire for all other Mid-America activities. Comfortable and elegant casual resort wear best describes the customary dress for all evening functions. We do suggest you pack a sweater or light jacket for the cool evenings.

HOTEL DINING

You are free to dine on your own on Thursday and Saturday. The Westin Hilton Head Island Resort & Spa offers several renowned dining options catering to a wide variety of tastes. With three on-property choices, they hope to delight and dazzle you with an assortment of culinary creations.

CAROLINA CAFÉ

A casual, family-friendly venue, the Carolina Café serves fantastic seasonal offerings and unique Low Country cuisine. Their inspiring menu comprises new Chef Ed Connors's daily creations, made with the freshest local and sustainable ingredients.

OCEANS

Let the waves of the Atlantic beckon you to Oceans for fresh, locally-sourced seafood, Low Country-inspired dishes, and one of Hilton Head Island's best panoramic ocean views. Completely renovated, Oceans now brings the outdoors inside, with the island's best breezes and tranquil views of dolphins and the tide. Catch up with friends and family over a bottle of wine or your favorite cocktails, and dine where a relaxed style meets inspired, creative cuisine.

SPLASH

Located next to the main pool, just steps away from the beach, Splash is a relaxing place for comfortable dining with your favorite tropical drink as you feel the warm ocean breeze. Seasonal live entertainment sets the mood for a refreshing afternoon and a transition into evening.

VIEW 32

This exciting new restaurant and bar is the perfect place to cool off with a frozen, 32-degree drink, or simply take in panoramic views of the magnificent Atlantic Ocean at the 32nd parallel. You'll find everything from a signature View 32 drink menu to the freshest menu items—appetizers, salads, entrees, and small plates like sliders.

INGREDIENTS

Let Ingredients kick-start your day with your favorite morning drink. Come back any time for a healthy snack or frozen treat. They proudly brew Starbucks® coffee and serve grab-and-go breakfast, lunch, juices, smoothies, soft drinks, beer, and wine. This is the perfect stop on your way to the beach, pool, golf course, or meeting. From wraps and salads to frozen yogurt and fruit cups, you'll find something perfect to hold you over.

SPA

Welcome to Heavenly Spa by Westin Hilton Head Island

Indulge in a selection of enriching treatments at the Heavenly Spa by Westin™, named the #1 spa in South Carolina and one of the 100 best spas in the U.S. Celebrating the revitalizing benefits of herbs, minerals, and customs of the region to inspire your journey of self-discovery, we invite you to experience the pampering essences offered in tempting choices to soothe the spirit, rejuvenate the body, and enrich the mind. This is a place where scents free the mind, melodies inspire the spirit, and massage nourishes the soul. It is a place where your senses are your guide, everything else falls away, and all that's left is you. Amidst the palmetto lined boardwalks, winding through lush gardens, serene fountains, and enchanting lagoons rests a heavenly oasis. Hours of operation: 9:00 a.m. - 6:00 p.m.

FITNESS CENTER

WestinWORKOUT® Fitness Studio is approximately 2,000 square feet with views of nearby pools and the ocean. The Fitness Studio facilities are designed to accommodate a full range of activities including: running, jogging, walking, bicycling, weightlifting, calisthenics, and swimming. Complimentary to guests and accessible 24-hours a day with room key, WestinWORKOUT® Fitness Studio features locker rooms with transforming amenities like towel service and shower accessories.

WESTIN KIDS CLUB®

The Recreation Department at The Westin Hilton Head Island Resort and Heavenly Spa is pleased to bring scheduled activities and Kids Camp every single day of the week. They design their programming for children ages 4-12, but parents and loved ones are always welcome to join in on the fun.

The SPG® Kids Pass program is an all-inclusive dining program created with the youngest guests and their parents in mind. For a flat daily rate, children ages 12 and younger of Starwood Preferred Guest® members can enjoy all-inclusive access to a variety of dining options. To take advantage of the SPG Kids Pass program, sign up when you check in or anytime during your stay.

ACTIVITIES

The Westin Hilton Head Island Resort & Spa has a spectacular recreation program with a lot of activities for you to enjoy with family and friends. This legendary resort island has 12 miles of public beach, spectacular views, and a great variety of outdoor activities and adventures year round for you and your family to enjoy. With its trademark striped lighthouse, beautiful beaches, world-class golfing, top-ranked tennis facilities, marinas, it's no wonder why Hilton Head Island is a vacationer's dream. Scenic bike and jogging paths, horseback riding along the beach, and touring local wildlife preserves are all spectacular ways to enjoy the outdoors and your stay at The Westin Hilton Head Island Resort & Spa. Swimming at The Westin Hilton Head Island Resort & Spa is just one of many activities you can enjoy. The resort offers three unique outdoor pools, plus a beautiful beach. There are three spectacular 18-hole golf courses at the adjacent Port Royal Golf Club, situated along the oceanfront and named one of the "Top 75 U.S. Golf Resorts" by Golf Digest .

SHOPPING

Hilton Head Island and Bluffton offer a variety of unique boutiques as well as top name brand stores, from personal souvenirs to great deals you just can't pass up. Chic boutiques and outlet shops offer something fun for everyone. The Westin Hilton Head Island Resort & Spa is conveniently located minutes away from the Tanger Outlet Shopping Center. Other shopping areas are Shelter Cove Mall and the Hilton Head Factory Outlet Stores.

EXCLUSIVE MAOA ACTIVITIES

Thursday, April 23, 2015

1:30 p.m. Dolphin Eco Tour

Join us for a 90-minute power-boat tour through the Low Country water watching for birds and dolphin in the salt marsh ecosystem. Cruise from Shelter Cove Marina, down Broad Creek, and into the Calibogue Sound where you'll see the beautiful Harbor Town Lighthouse. The boats used are stable, comfortable, and small enough to have close-up encounters with the great variety of wildlife.

Approximately 2½ hours (including travel time)

Cost: \$80.00 per person

1:30 p.m. Fishing Charter

Come and fish the beautiful waters of the South Carolina Low Country! The legendary salt marsh is the largest breeding ground of game fish in North America. Outside Hilton Head guides have been leading in-shore and offshore fishing charters for years and are sure to provide an amazing experience on the water. Seasonal species include tarpon, redfish, trout, shark, cobia, king, and Spanish mackerel. Each charter captain is dedicated to providing a safe, productive, and memorable day. Whether a beginner or seasoned angler, your guide will share their deep knowledge and experience to ensure great fishing.

Approximately 4½ hours (including travel time)

Cost: \$175.00 per person

TENNIS

The Port Royal Racquet Club has been ranked as one of the "Top 50 Greatest U.S. Tennis Resorts" by Tennis Magazine and has received the coveted five stars by World Tennis for its award-winning tennis complex featuring Har-Tru clay and Nova hard courts, as well as an outstanding Tennis Resort Pro Shop. You are sure to enjoy a game where the courts have been graced by tennis legends and superstars.

MAOA TENNIS TOURNAMENT

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

Thursday, April 23, 2015 @ 2:00 p.m. \$45.00 per person

CHAMPIONSHIP GOLF

Nestled along the Atlantic coastline, Port Royal Golf Club is located on the northwestern point of Hilton Head Island. The Club is situated in the Port Royal Plantation along with the luxurious Hilton Head Golf Resort & Spa. In 1997, Port Royal Golf Club was recognized as a "1997 Silver Medal Resort" by Golf Magazine for its three spectacular 18-hole golf courses: Barony, Planter's Row, and Robber's Row. Port Royal Golf Club, Oyster Reef Golf Club, Shipyard Golf Club, and Palmetto Hall Plantation Club are all part of The Heritage Collection on Hilton Head Island. Port Royal Golf Club is committed to unrivaled golf and uncompromising service. The MAOA tournament this year will be played on the Barony Golf Course beginning at 1:30 p.m. on Friday, April 24. We have secured a limited number for the tournament, so book early. We will be playing a Scramble Format with a Shotgun Start. The rate is \$95.00 per player, which includes green fees for 18 holes, shared cart, and range privileges prior to play. Reservations will be taken on a first come basis.

MAOA GOLF TOURNAMENT – SCRAMBLE FORMAT (shotgun start)

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

Friday, April 24, 2015 @ 1:30 p.m. at the Port Royal Barony Course \$95.00 per person

Friday, April 24, 2015

7:30 a.m. Spouse/Guest Beachside Yoga

Invigorate your morning with an organic beachside yoga practice. Join the wellness guru for this hour long beach yoga session. Take your mind, body, and spirit outside the typical classroom setting and inspire anew. Get outside and connect with the elements. Embrace the open air and ocean soundtrack as this lighthearted practice is sure to leave sunshine on your face, freedom in your body, and happiness in your heart. There is simply no better way to start your day!

Approximately 1 hour

Cost: \$30.00 per person

1:30 p.m. Broad Creek Wildlife Kayak Tour

Kayak through the tidal creeks and salt marshes of Hilton Head Island. Kayaking is a fun, safe, and easy trip. No experience is necessary to enjoy this water based "nature hike" through our beautiful creeks and inlets. Your naturalist guide will choose one of several interesting routes that offer beautiful views of the Low Country landscape and an opportunity to observe the incredible variety of wildlife that make this area home: dolphin, osprey, heron, bald eagle. All kayaks (single and doubles) are safe, stable, and comfortable. Kayaking tours are led by knowledgeable, personable, interpretive naturalist guides, and this is sure to be a memorable Hilton Head nature tour.

Approximately 3 hours (including travel time)

Cost: \$75.00 per person

BREAKOUT SESSIONS

Each Breakout Session will be devoted to a specific area of orthopedics and will allow sufficient time for discussion. The Breakout Sessions have been scheduled for Thursday, April 23; Friday, April 24; and Saturday, April 25. The Category 1 credits earned by attending the Breakout Sessions are included in the total number awarded by our 2015 Annual Meeting.

INSTRUCTIONAL COURSES

Instructional Courses have been scheduled for Thursday, April 23 and Friday, April 24. There is no additional cost to attend these courses. Please indicate your attendance at these four instructional courses when you register online so plans can be made accordingly. Continuing medical education credit for the instructional courses is included in the 33 hours of Category 1 time as outlined on page 1.

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.

MAOA 2015 ANNUAL MEETING AT A GLANCE**Wednesday, April 22**

REGISTRATION
 Advantage Foyer
 6:30 a.m. - 8:00 p.m.

SPEAKER READY ROOM
 Lady Davis
 6:30 a.m. - 8:00 p.m.

MAOA/ICJR PRE-MEETING COURSE
 The Athlete's Knee: Meniscus, Ligament,
 Cartilage, and Patellofemoral
 Calibogue/Danner
 7:00 a.m. - 5:00 p.m.

BOARD OF DIRECTORS' MEETING
 Daufuskie
 5:00 p.m.

EXHIBIT (COMPANY REP) MEETING
 Archer/Barnwell
 6:30 p.m.

WELCOME RECEPTION AND BUFFET
 Oceanfront Deck
 7:00 p.m. - 9:00 p.m.

Thursday, April 23

REGISTRATION
 Advantage Foyer
 6:00 a.m. - 1:00 p.m.

SPEAKER READY ROOM
 Lady Davis
 6:00 a.m. - 1:00 p.m.

INSTRUCTIONAL COURSES
 IC I - Jasmine/Hibiscus
 IC II - Drayton
 6:30 a.m. - 8:00 a.m.

EXHIBITS/POSTERS OPEN
 Archer/Barnwell and Savannah Foyer
 7:30 a.m. - 12:30 p.m.

PLENARY SESSION
 Calibogue/Danner
 8:00 a.m. - 10:30 a.m.

SPOUSE/GUEST HOSPITALITY
 Oceanfront Pavilion
 8:30 a.m. - 10:30 a.m.

SPOUSE/GUEST WELCOME
 Oceanfront Pavilion
 9:30 a.m.

FIRST BUSINESS MEETING
 Calibogue/Danner
 10:30 a.m. - 10:40 a.m.

POSTER VIEWING
 Savannah Foyer
 10:30 a.m. - 11:00 a.m.

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

ASK THE EXPERT – FRACTURE CASES
 Jasmine/Hibiscus
 1:00 p.m. - 3:00 p.m.

OPTIONAL TOUR
 Dolphin Eco Tour
 1:30 p.m.

OPTIONAL TOUR
 Fishing Charter
 1:30 p.m.

MID-AMERICA TENNIS TOURNAMENT
 Port Royal Racquet Club
 2:00 p.m.

EXHIBITORS' RECEPTION
 Archer/Barnwell
 6:00 p.m. - 7:30 p.m.

POSTER VIEWING
 Savannah Foyer
 6:00 p.m. - 7:30 p.m.

DINNER AT LEISURE

The Westin Hilton Head Island Resort • Hilton Head Island, South Carolina

Friday, April 24	Saturday, April 25	Sunday, April 26
<p>REGISTRATION Advantage Foyer 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Lady Davis 6:00 a.m. - 1:00 p.m.</p> <p>INSTRUCTIONAL COURSES IC III - Jasmine/Hibiscus IC IV - Drayton 6:30 a.m. - 8:00 a.m.</p> <p>EXHIBITS/POSTERS OPEN Archer/Barnwell and Savannah Foyer 7:30 a.m. - 12:30 p.m.</p> <p>PLENARY SESSION Calibogue/Danner 8:00 a.m. - 10:30 a.m.</p> <p>OPTIONAL ACTIVITY FOR SPOUSES/GUESTS Beachside Yoga 7:30 a.m. - 8:30 a.m.</p> <p>SPOUSE/GUEST HOSPITALITY Oceanfront Pavilion 8:30 a.m. - 10:30 a.m.</p> <p>POSTER VIEWING Savannah Foyer 10:30 a.m. - 11:00 a.m.</p> <p>BREAKOUT SESSIONS 11:00 a.m. - 1:00 p.m.</p>	<p>REGISTRATION Advantage Foyer 6:00 a.m. - 1:00 p.m.</p> <p>SPEAKER READY ROOM Lady Davis 6:00 a.m. - 1:00 p.m.</p> <p>EXHIBITS/POSTERS OPEN Archer/Barnwell and Savannah Foyer 6:30 a.m. - 12:30 p.m.</p> <p>PLENARY SESSION Calibogue/Danner 7:00 a.m. - 10:00 a.m.</p> <p>SECOND BUSINESS MEETING Calibogue/Danner 10:00 a.m. - 10:05 a.m.</p> <p>BREAKOUT SESSIONS 10:30 a.m. - 1:30 p.m.</p>	<p>Departures</p>
<p>PRACTICE MANAGEMENT SYMPOSIUM Jasmine/Hibiscus 1:00 p.m. - 3:00 p.m.</p> <p>OPTIONAL TOUR Broad Creek Wildlife Kayak Tour 1:30 p.m.</p> <p>MID-AMERICA GOLF TOURNAMENT Barony Course at Port Royal Golf Club 1:30 p.m.</p>	<p>BOARD OF DIRECTORS' MEETING Daufuskie 1:30 p.m.</p>	
<p>STEEL LECTURE Calibogue/Danner 6:30 p.m. - 7:30 p.m.</p> <p>TASTE OF CAROLINA Oceanfront Deck 7:30 p.m. - 10:00 p.m.</p>	<p>DINNER AT LEISURE</p>	

Questions?? Contact:

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FUTURE MEETINGS

- | | |
|-------------------|--|
| April 22-26, 2015 | The Westin Hilton Head Island Resort
Hilton Head Island, SC |
| April 13-17, 2016 | Hyatt Regency Coconut Point Resort
Bonita Springs, FL |
| April 19-23, 2017 | Omni Amelia Island Plantation
Amelia Island, FL |
| April 18-22, 2018 | Hyatt Regency Hill Country Resort
San Antonio, TX |

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2014-2015**

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Notes





FUTURE MEETINGS

April 22-26, 2015

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Hilton Head Island, South Carolina**

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San Antonio, Texas**