**Registration/Breakfast with Exhibitors (7:00-8:00 AM)**

**Introduction (8:00 AM)**

(8:00AM) **Welcome and Introductions of Co-Chairs**: Sanj Kakar, MD, Mayo Clinic and Jeff Brand, MD, Heartland Orthopedics

8:10 AM **University of Minnesota Update**: Ann Van Heest, MD

8:15 AM **Mayo Clinic Update:** William Cross, MD

**Session 1: Arthroplasty (8:25-8:50 AM)**

Moderator: Michael Taunton MD

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| 8:25 AM | Reliable Outcomes and Survivorship of Unicompartmental Knee Arthroplasty for Isolated Compartment Osteonecrosis: Brian Chalmers, MD |
| 8:33 AM | Infected Unicompartmental Knee Arthroplasty: Nicholas M. Hernandez MD |
| 8:41 AM | Success of Two-Stage Revision THA with a PROSTALAC Articulating Antibiotic Spacer:  Brian Chalmers, MD |

**Presidential Lecture (8:50– 9:20 AM)**  Questions (9:10 - 9:20 AM)

**Orthopaedics, A Great Adventure: Excellence through Knowledge**

Richard F. Kyle, M.D.

Professor of Orthopaedic Surgery

University of Minnesota

Faculty, Hennepin County Medical Center

74th President, American Academy of Orthopaedic Surgery

Minneapolis, Minnesota

**Session 2: Trauma/Foot and Ankle (9:20-10:10 am)**

Spotlight Speaker and Moderator (9:20--9:30 am): **Presentation Title:**  Andy Sems MD

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| 9:30 AM | Short versus Long Cephalomedullary Nailing of Pertrochanteric Hip Fractures: A Randomized Prospective Study: Steven F. Shannon, M.D. |
| 9:38 AM | Subtrochanteric Femur Fractures Treated with Reconstruction Nails Have a Lower Reoperation Rate Compared to Cephalomedullary Nail Fixation: Matched Cohort Study of 232 Patients: Austin Heare, MD |
| 9:46 AM | Anterior Pelvic External Fixation versus the Pelvic Bridge for Unstable Pelvic Injuries: A Randomized Controlled Trial: Anthony J. Dugarte MD |
| 9:54 AM | Minimally Invasive Sacroiliac Arthrodesis: 1 and 2-year Results Highlighting Compression, Grafting, and Stabilization: Scott A. Mitchell, MD |
| 10:02 AM | Implant Cost Variation for Surgically Treated Ankle Fractures: Harsh Parikh, MPH |

**Break with Exhibitors (10:10-10:40 AM)**

**Heritage Lecturer (10:40 – 11:35 AM)**  Questions (11:20- 11:35 AM)

**Impact Developments in Hand Surgery During my Lifetime**

Peter J. Stern, MD

Hill Professor of Orthopaedic Surgery

University of Cincinnati College of Medicine

**MOS Annual Meeting (11:35 AM–11:55 AM)**

**Lunch with Exhibitors (11:55 AM-12:55 PM)**

**Session 3: Opioids (12:55-2:00 PM)**

Spotlight Speaker (12:55- 1:05 PM): Brad Kuzel, MD

Spotlight Speaker (1:10-1:20 PM): Clarence Shannon, MD

Spotlight Speaker (1:25-1:35 PM ): Bret Haake, MD

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| 1:40 PM | Patients at Risk: Preoperative Opioid Use Affects Opioid Prescribing, Refills, and Outcomes after Total Knee Arthroplasty: Nicholas M. Hernandez, M.D. |
| 1:48 PM | Reducing Postoperative Opioid Prescription: A Multifaceted Strategy for Effective, Judicious Pain Management: Jillian V. Johnson, BS |

**Session 4: Split Session Sports & Pediatrics (2:00-2:35 PM)**

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| 2:00 PM | Pediatric Spotlight Speaker (2:00-2:10 PM): Cary Mielke, MD  **Presentation Title:** | 2:00 PM | Spotlight Speaker (2:00- 2:10 PM): Jeffrey Macalena, MD  **Presentation Title:** |
| 2:10 PM | Closed Treatment of Shoulder Dislocation in Children With Birth Brachial Plexus Injuries  David Matson, MD | 2:10 PM | Inconsistent 6-month functional and isokinetic test results following ACL reconstruction in a group of skeletally immature pediatric patients: Brian T. Samuelsen, MD, MBA |
| 2:18 PM | CT-Guided Navigation versus Intraoperative Fluoroscopy for Placement of S2-Alar-Iliac Screws in Complex Pediatric Spinal Deformity  Bayard C. Carlson, MD | 2:18 PM | Is There a Difference in KOOS Scores for ACL Reconstruction Between 1- and 2-Years Follow-Up?  Avais Raja, MD |
| 2:26 PM | Use of Intra-Operative CT Guided Navigation versus Freehand/Fluoroscopy in Spine Surgery for Pediatric Patients Fady Baky, BS | 2:26 PM | Cellularity and Vascularity of the Developing Human Meniscus: William Fedje-Johnston |

**Break with Exhibitors (2:35-3:05 PM)**

**Split Session 5: Hand & Upper Limb (3:05-4:15 PM) Peter Rhee DO & Spine with David Polly MD**

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|  | Hand Moderator: Peter Rhee DO | 3:05 PM | Spine Spotlight Speaker (3:05-3:15 pm): David Polly, MD |
| 3:05 PM | Ulnotriquetral Split Tear Repair: Is It Myth or Fact?  Nicholas J. Clark, MD | 3:15 PM | VIABILITY OF ALLOGRAFT RECONSTRUCTION OF THE ILIAC CREST  Glenn Buttermann, MD |
| 3:13 PM | Outcomes of Scapholunate Injuries with Concomitant Distal Radius Fractures: To Fix or Not to Fix?  Nicholas C. Duethman, MD | 3:23  PM | Short Term Reoperation Rates Following Three or More Level Lumbar Decompressions  Ryan Hoel,MD |
| 3:21  PM | Patient Factors Predictive of Patient Reported Wrist Evaluation (PRWE) Scores after Distal Radius Volar Plate Fixation Geneva V. Tranchida, MD | 3:31 PM | Implant Sonication versus Tissue Culture for the Diagnosis of Spinal Implant Infection  Bayard C. Carlson, MD |
| 3:29 PM | Ulnar Collateral Ligament Reconstruction in Athletes Using a Cortical-Button Suspension Technique  Chad Myeroff, MD | 3:39 PM | Low-pressure Lumbar Provocation Discography According to International Association for the Study of Pain/Spine Intervention Society  Standards Does Not Cause Accelerated Progression of Disc Degeneration in Symptomatic Low Back Pain Patients; A 7 Year Matched Cohort Study Zachary L. McCormick MD |
| 3:37 PM | Liposomal bupivacaine interscalene block versus standard interscalene block for shoulder arthroplasty: Effects on length of stay and narcotic use Matthew Godlewski |  |  |

**Awards and Closing (3:50-4:00 PM)**

**Poster Presentations and Authors**

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| **Abstract Title** | **Author** |
| Outcomes of Shoulder Arthroplasty in Diabetic Patients as Assessed by Perioperative A1C | Joseph M. Statz, M.D. |
| Experience Influences the Agreement and Reliability of Tibial Component Positioning in TKA | Graham D. Pallante, MD |
| Overall perception of health is associated with better shoulder patient reported outcome measures | Jefferson Brand, MD |
| Refracture Rate of Both Bone Forearm Fractures: A Retrospective Comparison of Casting Alone Versus Casting Combined with Functional Bracing | Lisa Soumekh |
| Soft Tissue Contribution to Rotator Cuff Compression with the Coracoacromial Arch | Brenton Douglass, MS2 |
| Efficacy of Pre-Operative Antibiotic Therapy in Pediatric Supracondylar Fractures Treated with Closed Reduction and Percutaneous K-Wire Fixation | Etasha M. Bhatt, MD |
| Upper Extremity Tone Clinic- A retrospective review of cerebral palsy patients evaluated in a multidisciplinary clinic. | Melissa White |
| Agreement between Patient Reported Outcome Measures in Hip Pain Patients | Aerika Tori |
| Core Decompression and Concentrated Bone Marrow Aspirate Injection for Osteonecrosis of the Hip | Joshua Campbell, MD |
| Does a Knowledge Gap exist in the Systems-Based Practice Core Competency? A Survey of an Orthopaedic Residency to Identify Educational Interests | Etasha M. Bhatt, MD |
| Current Maternity, Paternity and Adoption Leave Policies in Orthopaedic Surgery Resident Training Programs in the United States | Breana Siljander, MD |
| Cumulative Radiation Exposure for Treatment of Leg Length Discrepancy Using Low Dose Biplanar Imaging (EOS) Compared to Traditional Radiographs | Fady Baky, BS |
| Postoperative Spinal Injection Reduces Length of Stay and Postoperative Narcotic Use following Pediatric Fusion Surgery | Daniela Galeano-Garces MD |
| Trend and Economic Implications of Implant Selection in the Treatment of Intertrochanteric Hip Fractures: A Review of the American Board of Orthopaedic Surgery Database 1999-2017 | Lauren Casnovsky, MD |
| Cost Variation in Temporizing External Fixation of Tibial Plateau Fractures | Kevin Hayek, MD |
| Factors Associated with Emergency or Urgent Care Visits Following Outpatient Orthopaedic Trauma Surgery | Lauren Zurek, MD |
| Orthopaedic Implant Cost Perceptions amongst Surgeons and Healthcare Administrators | Melissa White, BA |