**Agenda**

**Friday – July 25, 2014**

- **7:00–8:00 a.m.** Registration
- **7:15–8:00 a.m.** Continental Breakfast – **Visit Corporate Partners**
- **8:00–8:05 a.m.** In Memoriam: Doreen DiPasquale, MD – **John K. Sontich, MD**
- **8:05–8:14 a.m.** Welcome, Disclosure – **Sanjeev Sabharwal, MD, MPH**

**Bone Healing** – **Moderator: Reggie C. Hamdy, MD**

- **8:15–8:20 a.m.** The Accordion Maneuver and the Effects of Compression Loading on Delayed Regenerate Bone Formation in Cases of Limb Lengthening  
  **Asim Makhdom, MD**
- **8:21–8:26 a.m.** Distraction Osteogenesis for Post–Traumatic Bone Defects of the Leg: Comparison of Classic versus Integrated Technique  
  **Mitchell Bernstein, MD**
- **8:27–8:32 a.m.** Treatment of Long Bone Atrophic Pseuorthrosis with Platelet Rich Plasma and Distraction–Compression with Ilizarov External Fixator  
  **Mustafa Gokhan Bilgili**
- **8:33–8:38 a.m.** Treatment of Aseptic Diaphyseal Nonunion of the Lower Extremities with Intramedullary Nailing and Blocking Screws without Open Bone Graft  
  **Mustafa Gokhan Bilgili**
- **8:39–8:49 a.m.** Discussion
- **8:50–8:55 a.m.** Reamed Intramedullary Nailing Has Adverse Effect in Bone Regeneration during Distraction Phase in Distraction Osteogenesis of Tibia–A Cohort Study – **Dong Hoon Lee, MD, PhD**
- **8:56–9:01 a.m.** The Potential use of RNA Interference to Down–Regulate the BMP–Antagonist Noggin and Increase Bone Formation during Distraction Osteogenesis – **Ana Cristina Ferreira Bassit, MD**
- **9:02–9:07 a.m.** Acceleration of Bone Regeneration in a Mouse Model of Distraction Osteogenesis with Systemic Administration of Sclerostin Antibodies  
  **Asim Makhdom, MD**
- **9:07–9:15 a.m.** Discussion
**Deformity** – Moderator: *Joseph R. Hsu, MD*

9:15–9:20 a.m. Predicting Knee Joint Contact Pressure and Shear Stress for Different Alignments – *Franziska Reisse, PhD*

9:21–9:26 a.m. Femoral Derotation Osteotomies in Adults – *Robert L. Buly, MD, MS*

9:27–9:32 a.m. Knee Arthodesis with Ilizarov Method as a Salvage Procedure after Septic Failure of TKA – *Alexander Kirienko, MD*

9:33–9:38 a.m. Wound and Scar Management in Lengthening and Deformity Correction: Collaboration between Orthopedic and Plastic Surgery – *Serdar Tuncer, MD*

9:39–9:44 a.m. Utility of a Limb Lengthening and Complex Reconstruction Service in an Academic Department of Orthopedic Surgery – *Elizabeth S. Rozbruch*

9:45–9:55 a.m. Discussion

9:56–10:15 a.m. Refreshment Break – Visit Corporate Partners

**Lengthening Nails** – Moderator: *Mark Dahl, MD*

10:16–10:21 a.m. An Anatomical Study of the Greater Trochanter Starting Point for Intramedullary Nailing – *Raymond W. Liu, MD*

10:22–10:27 a.m. The Importance of Reaming of Posterior Femoral Cortex before Insertion of the Lengthening Nails – *Metin Kucukkaya, MD*

10:28–10:33 a.m. Lengthening For Congenital Limb Length Discrepancy – *Kevin Debiparshad, MD*

10:34–10:39 a.m. Stature Lengthening Using a New Implantable Lengthening Device – *Kevin Debiparshad, MD*

10:40–10:45 a.m. Accuracy and Safety in Bilateral Lengthening of Lower Extremity using a Magnet Activated Intramedullary Lengthening Device – A Preliminary Report – *Keun Jung Ryu, MD*

10:46–10:51 a.m. Feedback Control for Patient–Specific Lengthening of an Implantable Limb Lengthening Device – *Janine Guenther, MD*

10:56–11:16 a.m. Discussion

11:17 a.m.–12:02 p.m. Presidential Memorial Lecture

**Diffusion of Innovation in Global Surgery**

*David A. Spiegel, MD*
**Emerging Technologies, Session 1 – Moderator: S. Robert Rozbruch, MD**

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<th>Time</th>
<th>Presentation</th>
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<tr>
<td>12:03–12:08 p.m.</td>
<td>Plating Following Gradual Realignment with the Taylor Spatial Frame for Refractory Congenital Pseudoarthrosis of the Tibia: A Novel Technique Yasuhisa Yoshida, MD</td>
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<td>12:09–12:12 p.m.</td>
<td>Fixator Assisted Technique enables Minimal Invasive Plate Osteosynthesis in Open Wedge High Tibial Osteotomy – Dong Hoon Lee, MD, PhD</td>
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<td>12:13–12:18 p.m.</td>
<td>Toward a Novel, Implantable Limb Lengthening Device Daniel Farley, MD</td>
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<td>12:19–12:24 p.m.</td>
<td>Correction of Multilevel Deformities of the Lower Limb – A New Technique Using a Motorized Intramedullary Lengthening Nail and a Locking Plate – Dr. Ulrich Lenze</td>
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<td>12:25–12:30 p.m.</td>
<td>Reconstruction Using the Tumor Prosthesis for Severe Deformities of the Lower Limbs in Five Cases – Yasuhisa Yoshida, MD</td>
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<td>12:35–12:40 p.m.</td>
<td>Development if a new External Distraction/Compression Device and a Force–Measuring Tool for a Rat Model of Distraction Osteogenesis Sebastian Rendon, MD</td>
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<td>12:41–12:51 p.m.</td>
<td>Discussion</td>
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<td>12:55–2:15 p.m.</td>
<td>Luncheon</td>
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<td>1:15–2:00 p.m.</td>
<td>Special Luncheon Presentation: The Kon–Tiki Expedition John G. Birch, MD and Harald Steen, MD</td>
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<td>2:00–2:15 p.m.</td>
<td>ILLRS Congress – November 4–7, 2015, Miami, Florida Reggie C. Hamdy, MD and Dror Paley, MD</td>
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**Emerging Technologies, Session 2 – Moderator: J. Spence Reid, MD**

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<th>Time</th>
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<tr>
<td>2:20–2:25 p.m.</td>
<td>Bilateral Pubic Rami Lengthening for Pelvic Reconstruction in Bladder Exstrophy – David A. Podeszwa, MD</td>
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<td>2:26–2:31 p.m.</td>
<td>The Induced Membrane Technique of Masquelet: Unanswered Questions Remain – Panagiotis (Peter) Glavas, MD</td>
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<td>2:32–2:37 p.m.</td>
<td>Early Clinical Experience with a New Calcium Sulphate Bead alongside Vancomycin and Tobramycin for Management of Infections and Dead Space: Bead Resorption and No Wound Drainage – Daniel Schlatterer, DO</td>
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<td>2:38–2:43 p.m.</td>
<td>Liposome Encapsulated Quantum Dots for Imaging of a Rat Model of Distraction Osteogenesis – Lamees Nayef, MD</td>
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<td>2:44–2:55 p.m.</td>
<td>Discussion</td>
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External Fixation – Moderator: Stuart A. Green, MD

2:56–3:01 p.m. Mechanical Rigidity of the Ortho–SUV Frame Compared to the Ilizarov Frame in the Correction of Femoral Deformity
   Matt D. A. Fletcher, MBBS

3:02–3:07 p.m. Rigidity of Spanning External Fixation Constructs Under Uniform Loading Conditions – Alexander Cherkashin, MD

3:08–3:13 p.m. Avoidance of External Fixation Pin Induced Rotational Stiffness in the Forearm: A Cadaver Study of Soft Tissue Displacement Relative to the Varying Position of Radius and Ulna Fixation – Matt D. A. Fletcher, MBBS

   Matt D. A. Fletcher, MBBS

3:20–3:25 p.m. Quantitative Analysis of Valgus Deformity during Lengthening over Nail of Tibia: A Case Control Study – Keun Jung Ryu, MD

3:26–3:36 p.m. Discussion

3:37–3:57 p.m. Refreshment Break – Visit Corporate Partners

3:58–4:03 p.m. Pin Track Infections: Somewhere between 0 and 100%
   Christopher Iobst, MD

4:04–4:09 p.m. Should Taylor Spatial Frame Mounting Parameters be Measured during or after Surgery? – Sami Sokucu, MD

4:10–4:15 p.m. Treatment for Pathological Fractures Due To Primary Bone Tumors Using an External Fixator – Hidenori Matsubara, MD

4:16–4:21 p.m. The Use of 6–Axis External Fixation Is Overall More Cost–Effective than Ilizarov for Canadian Health Care Centers – Marie Gdalevitch, MD

4:22–4:32 p.m. Discussion

4:33–4:53 p.m. Special Guest Lecture
   Quality and Value in Orthopedics: An Update
   James Sanders, MD
   AAOS Committee on Evidence–Based Quality and Value

4:54–5:00 p.m. Announcements

5:00 p.m. Adjourn

6:00–8:00 p.m. President’s Reception – Saint Gabriel L’Auberge
Saturday – July 26, 2014

7:15–7:45 a.m. Member Continental Breakfast – Visit Corporate Partners

7:45–8:30 a.m. LLRS Business Meeting – all members please attend

7:45–8:30 a.m. Nonmember Continental Breakfast – Visit Corporate Partners

8:30–8:35 a.m. Welcome, Disclosure

8:35–8:45 a.m. Introduction of Reggie C. Hamdy, MD, Incoming LLRS President
Sanjeev Sabharwal, MD, MPH

Pediatrics: Growth Plate – Moderator: Karl Rathjen, MD

8:45–8:50 a.m. Ipsilateral Healthy Leg Segment Response to Physeal Trauma causing Limb Length Discrepancy – Marina Makarov, MD

8:51–8:56 a.m. Correction of Developmental Deformities in Lower Extremities after Epiphyseal Plate Injuries using External Fixators – Takao Aikawa, MD

8:57–9:02 a.m. Is there a Correlation between the Interscrew Angle and the Joint Orientation Angles after Hemiepiphysiodesis with Eight–Plate? Salih Marangoz, MD

9:03–9:08 a.m. Complications associated with Epiphysiodesis for Management of Leg Length Inequality – Karl Rathjen, MD

9:09–9:14 a.m. Epiphyseal Preservation and Biological Reconstruction for Metaphyseal Osteosarcoma – Hiroyuki Tsuchiya, MD, PhD

9:15–9:25 a.m. Discussion

9:26–9:46 a.m. Invited Lecture
Management of Deformities in Osteogenesis Imperfecta: An Update
Francois Fassier, MD

Pediatrics: Deformity – Moderator: David Feldman, MD

9:47–9:52 a.m. Review of Classification of Congenital Tibial Deficiency and Treatment at One Institution – John G. Birch, MD

9:53–9:58 a.m. The Nature of Foot Ray Deficiency in Congenital Fibular Deficiency John G. Birch, MD

9:59–10:04 a.m. Pediatric Limb Lengthening and Reconstruction: Risk Factors Impacting Surgical Outcome – Heather M. Richard, PsyD

10:05–10:10 a.m. Adolescent's Tibia Vara Initial Deformity Correlates with Body Mass Index (BMI) and the Amount of Pressure on the Tibial Physis (P.T.P) Dr. Ronen Sever
10:11–10:16 a.m. Percutaneous Subtrochanteric Valgus Osteotomy for Painful Dislocated Hips in Patients with Cerebral Palsy – Maximillian Martinez

10:17–10:22 a.m. Validity and Deformity Consequences of a Rotational Mechanism for Stable Slipped Capital Femoral Epiphysis – Raymond W. Liu, MD

10:23–10:33 a.m. Discussion

10:34–10:54 a.m. Refreshment Break – Visit Corporate Partners

10:55–11:05 a.m. Clinical Scholar Development Program Presentation
  Michael Beltran, MD

**Foot and Ankle** – Moderator: John K. Sontich, MD

11:06–11:11 a.m. Classification of Distal Tibia and Fibula Deformity
  Douglas N. Beaman, MD

11:12–11:17 a.m. Secondary Hindfoot Nailing after Circular Fixation Limb Salvage
  Daniel J. Stinner, MD

11:18–11:23 a.m. Internal Fixation Following Thin–Wire External Fixation Removal or Modification for Foot and Ankle Pathology – Todd A. Irwin, MD

11:24–11:29 a.m. Characterization of Subtalar Joint Motion with Taylor Spatial Frame–based Deformity Correction – Douglas N. Beaman, MD

11:30–11:35 a.m. Short Term Results of Magnetic Resonance Imaging after Ankle Distraction Arthroplasty – S. Robert Rozbruch, MD

11:36–11:41 a.m. Distraction Osteogeneisis for Brachymetatarsia; Clinical Results and Implications on the Metatarsophalangeal Joint – S. Robert Rozbruch, MD

11:42–11:52 a.m. Discussion

11:53 a.m.–12:35 p.m. **Past Presidents Symposium**
  James A. Binski, MD
  John G. Birch, MD
  Stuart A. Green, MD
  Dror Paley, MD
  S. Robert Rozbruch, MD
  John K. Sontich, MD

12:36–12:45 p.m. Closing Comments, Adjourn