Limb Lengthening and Reconstruction Society  
Association for the Study and Application of the Methods of Ilizarov—North America  

25th Annual Scientific Meeting  

*Agenda*  

**Friday, July 22, 2016**  

7:30–8:00 a.m. Continental Breakfast  
Visit Corporate Partners  

8:00–8:10 a.m. Welcome, Disclosure – Karl Rathjen, MD and Joseph R. Hsu, MD  

**Session 1: Infection/Tumor/Upper Extremity**  
Moderator –  

8:10–8:16 a.m. Treatment of Infected Gap Non Union of Femur and Tibia with Limb Reconstruction System – Srikanth Mudiganty  

8:17–8:23 a.m. Upper Extremity Injuries and Correlates with Amputation Outcome Following Combat Trauma – Jessica C. Rivera, MD  

8:24–8:30 a.m. The Early Clinical and Radiologic Results of Capitate Lengthening in the Treatment of End Stage Kienbock’s Disease – Mehmet Fatih Erol  

8:30–8:36 a.m. Treatment of Hind–Foot Osteomyelitis by Eggshell–Like Debridement Combined with Distraction Osteogenesis – Cheng–He Qin  

8:36–8:45 a.m. Discussion  

8:46–8:52 a.m. Bioexpandable Prostheses after Resection of Malignant Bone Tumors in Children – Rainer Baumgart, MD  

8:53–8:59 a.m. Melorheostosis: A Multicenter Case Series – David A. Podeszwa, MD  

9:00–9:06 a.m. Taylor Spatial Frame Stacked Transport for Tibial Infected Nonunions with Bone Loss: Long Term Functional Outcomes  
*John K. Sontich, MD*  

9:07–9:15 a.m. Discussion  

**Session 2: General Health**  
Moderator –  


9:23–9:29 a.m. Post–Hospital Prescription Narcotics in the Orthopaedic Trauma Population – John Ruder
9:30–9:36 a.m.  Venous Thromboembolism among Pediatric Orthopaedic Trauma Patients: A Database Analysis – Samir Sabharwal

9:37–9:45 a.m.  Discussion

9:46–9:52 a.m.  Trends in the Use of Statistical Methods in Orthopaedic Surgery
Katherine K. Xie, BS

S. Robert Rozbruch, MD

10:00–10:06 a.m.  Incidence of Knee Height Asymmetry in Leg Length Discrepancy: A Retrospective Chart Review Study – Louis–Nicolas Veilleux

10:07–10:13 a.m.  Prescription Reporting with Immediate Medication Utilization Mapping (PRIMUM): Development of an Alert to Improve Narcotics Prescribing – Joseph R. Hsu, MD

10:14–10:25 a.m.  Refreshment Break
Visit Corporate Partners

10:26–10:38 a.m.  Clinical Scholar Career Development Program Presentation
James A. Blair, Jr., MD

Session 3: Biomechanics
Moderator –

10:29–10:35 a.m.  Divergent Half Pins Maximize External Fixator Stability and Fixation
Connor Green

10:36–10:42 a.m.  A Cadaveric Investigation into the Demographic and Bony Alignment Properties Associated with Osteoarthritis of the Patellofemoral Joint
Douglas S. Weinberg

10:43–10:49 a.m.  10 Years of External Fixation in Six Axes: A Literature Review
Jose Luis Zabeu, MD, PhD

10:50–10:56 a.m.  Do Oblique Half Pins Decrease Fracture Risk after Frame Removal
Christopher Iobst, MD

10:57–11:05 a.m.  Discussion

11:06–11:12 a.m.  The Reverse Planning Method (RPM) – Rainer Baumgart, MD
11:13–11:19 a.m. Mathematical Modeling for the Evaluation of Hexapod Frames
Stability and Correction Path – Alexander Cherkashin, MD

11:20–11:26 a.m. Comparison of the Reliability of Three Methods for the Assessment
of the Lower Limb Length: EOS with New Micro–Dose Protocol vs.
Long–Standing Radiograph vs. CT Scanogram – Burak Abay

11:27–11:35 a.m. Discussion

11:36 a.m.–12:30 p.m. Presidential Guest Lecture
James C. Binski, MD

12:35–1:30 p.m. Luncheon

1:30–1:40 p.m. Break
Visit Corporate Partners

Session 4: Trauma
Moderator –

1:41–1:47 p.m. Long Term Follow Up After Type III Open Tibia Fracture: a DoD/VA
Collaboration – Jessica C. Rivera, MD

1:48–1:54 p.m. Circular External Fixation with Limited Internal Fixation for High
Grade Pilon Fractures (OTA Type 43C3)
Charles Murray Lawrie, MD

1:55–2:01 p.m. The Cost of Infection in Severe Open Tibial Fractures Treated With a
Free Flap – Ulrik Kähler Olesen

2:02–2:08 p.m. Tensioned Wire External Fixator Assisted Nailing of Tibia Shaft
Fractures – Razvan Nicolescu, MD

2:09–2:15 p.m. The Relationship between the Distal Nail Target and Alignment of
Distal Tibia Fractures – Elyse Brinkmann, MD

2:16–2:30 p.m. Discussion

2:31–3:15 p.m. Traveling Fellowship Presentations
Anthony Cooper, MD
Natasha O’Malley, MD
Mani Kahn, MD
Ulrik Kähler Olesen

3:16–3:30 p.m. Refreshment Break
Visit Corporate Partners
### Session 5: Pediatrics

**Moderator –**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
<th>Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>3:31–3:37 p.m.</td>
<td>Risk Factors for Failure of Temporary Hemiepiphysiodesis in Blount Disease: Systematic Review</td>
<td>Bensen Fan, MD</td>
</tr>
<tr>
<td>3:38–3:44 p.m.</td>
<td>A Quantitative Method for Radiologic Assessment of Skeletal Maturity Using the Distal Femur</td>
<td>Derrick M. Knapik</td>
</tr>
<tr>
<td>3:45–3:51 p.m.</td>
<td>Accuracy of Limb Equalization: Comparison of Epiphysiodesis and Intramedullary Motorized Lengthening Nail</td>
<td>Ahmed I. Hammouda, MD</td>
</tr>
<tr>
<td>3:52–3:58 p.m.</td>
<td>Congenital Pseudoarthrosis of the Tibia: 100% Union with No Refractures</td>
<td>Davida Packer</td>
</tr>
<tr>
<td>3:59–4:07 p.m.</td>
<td>Discussion</td>
<td></td>
</tr>
<tr>
<td>4:08–4:14 p.m.</td>
<td>Orthopaedic Management of Lower Extremity Deformity in Linear 4 Scleroderma: A Multi–Center Review</td>
<td>David A. Podeszwa, MD</td>
</tr>
<tr>
<td>4:15–4:21 p.m.</td>
<td>Distal Femoral Osteotomy to Treat Patellar Instability in Adolescents with Valgus Lower Extremity Alignment</td>
<td>David A. Podeszwa, MD</td>
</tr>
<tr>
<td>4:22–4:28 p.m.</td>
<td>A New Classification System for Congenital Tibial Hemimelia</td>
<td>Dror Paley, MD</td>
</tr>
<tr>
<td>4:29–4:35 p.m.</td>
<td>Efficacy of “Smart Correction” – A Computer Assisted Hexapodal External Fixator in Correction of Deformities in Children and Adolescents</td>
<td>Salih Marangoz, MD, FEBOT</td>
</tr>
<tr>
<td>4:36–4:45 p.m.</td>
<td>Discussion</td>
<td></td>
</tr>
</tbody>
</table>

**Saturday, July 23, 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00–8:30 a.m.</td>
<td>Member Continental Breakfast</td>
</tr>
<tr>
<td></td>
<td>Visit Corporate Partners</td>
</tr>
<tr>
<td>8:30–9:15 a.m.</td>
<td>LLRS Business Meeting – only LLRS members may attend</td>
</tr>
<tr>
<td>8:45–9:15 a.m.</td>
<td>Nonmember Continental Breakfast</td>
</tr>
<tr>
<td></td>
<td>Visit Corporate Partners</td>
</tr>
</tbody>
</table>
Session 6: External Fixation/Deformity/Foot & Ankle
Moderator –

9:16–9:22 a.m. Treatment of Tibia Varus with and without Torsion Yields Excellent Outcomes – Austin T. Fragomen, MD

9:23–9:29 a.m. Gradual Correction of Knee Flexion Contracture and Ankle Equinus Using External Fixation – Ettore Vulcano, MD

9:30–9:36 a.m. Cost Comparison of Femoral Distraction Osteogenesis with External Lengthening Over a Nail versus Internal Magnetic Lengthening Nail – Shawn Richardson, MD

9:37–9:42 a.m. Dynamization Potential of Circular External Fixation Frames with Divergent Struts – Stephen M. Plachta, MD

9:43–9:51 a.m. Discussion

9:52–9:58 a.m. Treatment Efficiency of External Fixation in Brachymetatarsia – Juancarlos Blanco Rivera, MD

9:59–10:05 a.m. Ankle Distraction for End–Stage Ankle Arthritis: A Survival Analysis – Stephen Greenfield, MD

10:06–10:12 a.m. Distal Tibial Osteotomy and Concurrent Ankle Distraction: Radiographic Analysis – Stephen Greenfield, MD

10:13–10:19 a.m. The Administration of Prophylactic Postoperative Antibiotics has no Influence on Pin Site Infections after External Fixation – Austin T. Fragomen, MD

10:20–10:28 a.m. Discussion

10:29–10:55 a.m. Refreshment Break

Visit Corporate Partners

10:56–11:55 a.m. Alessandro Codivilla Guest Speaker
U.S. Special Operations: Perspectives on Resiliency – SSgt. (Ret.) Johnnie O. Yellock, II

Session 7: IM Lengthening
Moderator –

11:56 a.m.–12:02 p.m. Is There an Increase in Valgus Deviation in Tibial Distraction using the Lengthening Nail Technique? – Dong Hoon Lee

12:03–12:09 p.m. Comparison of Device–Related Complications between Lengthening Nails – Dong Hoon Lee
12:10–12:16 p.m. Simultaneous Lengthening and Deformity Correction Using a Retrograde Femoral Nail – Christopher Iobst, MD

12:17–12:23 p.m. Discussion

12:24–12:30 p.m. Assessment of Bone Healing During Antegrade Intramedullary Rod Femur Lengthening Using Radiographic Pixel Density Ettore Vulcano, MD

12:31–12:37 p.m. Limb Lengthening in Children with a Distraction Nail Rainer Baumgart, MD

12:38–12:44 p.m. Acute Deformity Correction and Lengthening Using Magnetic Intramedullary Lengthening Nails – Ahmed I. Hammouda, MD

12:45–12:51 p.m. The Results of Bone Grafting in the Management of Poor Regenerate Formation during Lengthening with Lengthening Nails Mehmet Fatih Erol

12:52–1:00 p.m. Discussion

1:00–1:15 p.m. Announcements, Adjourn