

**31<sup>st</sup> Annual  
Baltimore Limb Deformity Course Summer Games  
“The Marathon”**

**Thursday, August 5 – Saturday, August 7, 2021**  
(as of 05.04.21)



Four Seasons Hotel  
Baltimore, Maryland, USA



---

**International BLDC Committee Presidents**

**John Herzenberg, MD  
Philip McClure, MD**

**LLRS Liaison**

**David Podeszwa, MD**

---

**Organizing Committee**

**Michael Assayag, MD  
Christopher Bibbo, DO  
Janet Conway, MD  
Noman Siddiqui, DPM  
Shawn Standard, MD**

**Endorsed by:**



## Technical Officials

<b>Hummira Abawi, DPM</b>	Baltimore, Maryland
<b>Jossie Abraham, DPM</b>	Fairfield, Connecticut
<b>Anil Bhave, PT</b>	Baltimore, Maryland
<b>Alexander Cherkashin, MD</b>	Dallas, Texas
<b>Ronald Delanois, MD</b>	Baltimore, Maryland
<b>Mark Eidelman, MD</b>	Haifa, Israel
<b>Jeanne Franzone, MD</b>	Wilmington, Delaware
<b>Rudolf Ganger, MD</b>	Vienna, Austria
<b>Marie Gdalevitch, MD</b>	Montreal, Canada
<b>Vache Hambardzumyan, MD</b>	Yerevan, Armenia
<b>Lee Hlad, DPM</b>	Waycross, Georgia
<b>Byron Hutchinson, DPM</b>	Burien, Washington
<b>Christopher Iobst, MD</b>	Columbus, Ohio
<b>Mark Myerson, MD</b>	Aurora, Colorado
<b>Scott Nelson, MD</b>	Port-au-Prince, Haiti
<b>L. Reid Nichols, MD</b>	Wilmington, Delaware
<b>Christof Radler, MD</b>	Vienna, Austria
<b>J. Spence Reid, MD</b>	Hershey, Pennsylvania
<b>Mikhail Samchukov, MD</b>	Dallas, Texas
<b>Daniele Sciuto, MD</b>	Maralal, Kenya
<b>William Terrell, MD</b>	Marietta, Georgia
<b>Rishi Thakral, MD</b>	Oklahoma City, Oklahoma
<b>Michael Theodoulou, DPM</b>	Somerville, Massachusetts

## Day 1: Thursday, August 5

---

6:00–7:00	<u>Registration, Carb Loading, and Visit Corporate Contingents</u>	<i>Marine Venue and Olympic Village, Level 2</i>
7:00–7:30	Parade of Scholars and Qualifier Pre-test <i>John Herzenberg, MD, and Ronald Delanois, MD</i>	<i>Grand Ballroom (Olympic Stadium), Level 2</i>
7:30–7:50	Pre-Op Planning: The Axis/Apex Method <i>Shawn Standard, MD</i>	
7:50–8:00	Alphabet Soup of Limb Alignment (Frontal Plane): MAD, LDFA, MPTA, LDTA, MPFA, LPFA, and JLCA <i>Janet Conway, MD</i>	
8:00–8:15	Frontal Plane Measurements on Normal Bones (Planning Workshop) <i>Janet Conway, MD</i>	
8:15–9:00	Assessment of Limb Alignment: Frontal Plane MAP ( <u>M</u> Measure Mechanical Axis Deviation, <u>A</u> nalyze Joint Angles, <u>P</u> ick the Bone) (Planning Workshop) <i>John Herzenberg, MD</i>	
9:00–9:30	<u>Health Break and Visit Corporate Contingents</u>	<i>Olympic Village</i>
9:30–10:00	The ABCs ( <u>A</u> pex, <u>B</u> one Cut, <u>C</u> orrection) <i>Shawn Standard, MD</i>	<i>Olympic Stadium</i>
10:00–10:50	Tibia: Frontal Plane Single-level Deformities (Planning Workshop) <i>Michael Assayag, MD</i>	
10:50–11:30	Bone Ninja Introduction <i>Shawn Standard, MD</i>	
11:30–12:15	Tibia: Frontal Plane Double-level Deformities (Planning Workshop) <i>Marie Gdalevitch, MD</i>	
12:15–12:45	<u>Refuel</u>	<i>Olympic Village</i>
12:45–1:45	Special Program: International Outreach <i>Mark Myerson, MD with Introduction by Janet Conway, MD</i>	<i>Olympic Stadium</i>
1:45–2:00	Torch Relay to Designated Afternoon Labs	
2:00–6:15	Thursday Afternoon Labs:	
<b><u>Delegations A-1 and A-2:</u></b>		
2:00–4:00	Six-axis External Fixation 4 Lab Facilitator: <i>TBA</i> Lab Assistants: <i>TBA</i>	<i>Azure &amp; Indigo Rooms, Level 2</i>
4:00–4:15	Torch Relay to next lab	
4:15–6:15	Six-axis External Fixation 2 Lab Facilitator: <i>Scott Nelson, MD</i> Lab Assistants: <i>TBA</i>	<i>Grand Ballroom B, Level 2</i>

## Day 1: Thursday, August 5

---

### **Delegation B-1:**

- 2:00–4:00 Internal Fixation Lab *Sienna Room, Level 2*  
Facilitators: *Byron Hutchinson, DPM, Mark Myerson, MD, and Noman Siddiqui, DPM*  
Lab Assistants: *TBA*
- 4:00–4:15 Torch Relay to next lab
- 4:15–6:15 Six-axis External Fixation 3 Lab *Marine Room, Level 2*  
Facilitator: *William Terrell, MD*  
Lab Assistants: *Alexander Cherkashin, MD, and Mikhail Samchukov, MD*

### **Delegation B-2:**

- 2:00–4:00 Six-axis External Fixation 3 Lab *Marine Room, Level 2*  
Facilitator: *William Terrell, MD*  
Lab Assistants: *Alexander Cherkashin, MD, and Mikhail Samchukov, MD*
- 4:00–4:15 Torch Relay to next lab
- 4:15–6:15 Internal Fixation Lab *Sienna Room, Level 2*  
Facilitators: *Byron Hutchinson, DPM, Mark Myerson, MD, and Noman Siddiqui, DPM*  
Lab Assistants: *TBA*

### **Delegations C-1 and C-2:**

- 2:00–3:00 Femoral Fixator-assisted Nailing for Derotation Lab *Grand Ballroom B, Level 2*  
Facilitators: *Philip McClure, MD, and John Herzenberg, MD*  
Lab Assistants: *TBA*
- 3:00–3:05 Torch Relay to next lab
- 3:05–4:05 Fixator-assisted Plating Lab: Distal Femoral Valgus Deformity *Grand Ballroom A, Level 2*  
Facilitator: *Janet Conway, MD*  
Lab Assistants: *TBA*
- 4:05–4:15 Torch Relay to next lab
- 4:15–6:15 Six-axis External Fixation 1 Lab *Cobalt Ballroom, Level 2*  
Facilitators: *Rudolph Ganger, MD, and Christof Radler, MD*
- 7:30–9:30 Opening Ceremony Dinner (*ticket required, resort attire recommended*) *Aquatic Center, Level 4*

## Day 2: Friday, August 6

---

6:15–7:00	<u>Carb Loading and Visit Corporate Contingents</u>	<i>Olympic Village Level 2</i>
7:00–7:10	Announcements <i>John Herzenberg, MD</i>	<i>Olympic Stadium</i>
7:10–7:20	Tibia Review Planning Exercise <i>John Herzenberg, MD</i>	
7:20–7:35	Alphabet Soup of Limb Alignment (Sagittal Plane): PDFAs, PPTAs, SJLAs, ADTAs, and SMAAs <i>Philip McClure, MD</i>	
7:35–8:05	Sagittal Plane Measurements (Planning Workshop) <i>Philip McClure, MD</i>	
8:05–8:50	Tibia: Sagittal Plane Deformities (Planning Workshop) <i>Michael Assayag, MD</i>	
8:50–9:10	Tibia: Oblique Plane Deformities Overview <i>Shawn Standard, MD</i>	
9:10–9:35	Tibia: Oblique Plane Deformities (Planning Workshop) <i>Janet Conway, MD</i>	
9:35–9:50	<u>Health Break and Visit Corporate Contingents</u>	<i>Olympic Village</i>
9:50–10:50	Femur: Frontal Plane Single-level Deformities (Planning Workshop) <i>John Herzenberg, MD</i>	<i>Olympic Stadium</i>
10:50–11:05	<u>Health Break and Visit Corporate Contingents</u>	<i>Olympic Village</i>
11:05–11:10	Torch Relay to Breakout Session	
11:10–1:15	<i>Please visit one of the two breakout sessions listed below:</i>	
<b>Breakout Session: Focus on Ankle and Foot Deformities</b>		
11:10–11:40	Pre-Op Planning: The Axis/Apex/Third Line Method <i>Lee Hlad, DPM</i>	<i>Grand Ballroom B</i>
11:40–12:00	Alphabet Soup of Foot and Ankle Alignment: Frontal, Sagittal, and Transverse Planes <i>Jossie Abraham, DPM</i>	
12:00–12:55	Foot and Ankle: Frontal, Sagittal, and Transverse Plane Deformities (Planning Workshop) <i>Noman Siddiqui, DPM</i>	
12:55–1:15	Assessment of Limb Alignment and Subtalar/Ankle Joint Function <i>To be advised</i>	
<b>Breakout Session: Focus on Femoral Deformities and Limb Length Discrepancy (Pediatrics and Adults)</b>		
11:10–11:55	Femur: Frontal Plane Double-level Deformities (Planning Workshop) <i>John Herzenberg, MD</i>	<i>Grand Ballroom A</i>
11:55–12:25	Limb Length Discrepancy and Radiographic Assessment of LLD <i>Shawn Standard, MD</i>	

## Day 2: Friday, August 6

---

12:25–1:10 Femoral Planning in Reverse with Bone Ninja (Demonstration)  
*Philip McClure, MD*

1:10–1:15 Discussion

1:15–1:45 Refuel

*Olympic Village*

1:45–1:50 Torch Relay to Designated Afternoon Labs

1:50–6:00 Friday Afternoon Labs:

### **Delegations A-1 and A-2:**

1:50–2:50 Six-axis External Fixation 5 Lab  
Facilitator: *J. Spence Reid, MD*  
Lab Assistants: *TBA*

*Grand Ballroom A*

2:50–3:00 Torch Relay to next lab

3:00–6:00 Six-axis External Fixation 1 Lab

*Cobalt Ballroom, Level 2*

Facilitators: *Rudolf Ganger, MD, John Herzenberg, MD, and Christof Radler, MD*

Lab Assistants: *TBA*

### **Delegations B-1 and B-2:**

1:50–3:50 Six-axis External Fixation 4 Lab  
Facilitator: *Noman Siddiqui, DPM*  
Lab Assistants: *TBA*

*Azure & Indigo Rooms, Level 2*

3:50–4:00 Torch Relay to next lab

4:00–6:00 Six-axis External Fixation 2 Lab

*Grand Ballroom B, Level 2*

Facilitators: *Lee Hlad, DPM, and Scott Nelson, MD*

Lab Assistants: *TBA*

### **Delegation C-1:**

1:50–3:50 Six-axis External Fixation 3 Lab  
Facilitator: *Christopher Iobst, MD*  
Lab Assistants: *Alexander Cherkashin, MD, Mikhail Samchukov, MD, and William Terrell, MD*

*Marine Room, Level 2*

3:50–4:00 Torch Relay to next lab

4:00–6:00 Internal Lengthening Nail Workshop

*Sienna Room, Level 2*

Facilitators: *Rudolph Ganger, MD, John Herzenberg, MD, Christof Radler, MD and Shawn Standard, MD*

Lab Assistants: *TBA*

### **Delegation C-2:**

1:50–3:50 Internal Lengthening Nail Workshop  
Facilitators: *Rudolph Ganger, MD, John Herzenberg, MD, Christof Radler, MD and Shawn Standard, MD*

*Sienna Room, Level 2*

Lab Assistants: *TBA*

3:50–4:00 Torch Relay to next lab

4:00–6:00 Six-axis External Fixation 3 Lab

*Marine Room, Level 2*

Facilitator: *Christopher Iobst, MD*

Lab Assistants: *Alexander Cherkashin, MD, Mikhail Samchukov, MD, and William Terrell, MD*

## Day 2: Friday, August 6

---

- 6:00–6:25 Banned Substance Break *Cobalt Ballroom Pre-function, Level 2*
- 6:25–6:30 Torch Relay to Case Presentation Sessions
- 6:30–7:45 **Olympic Flame-side Consults: Parade of Competitors Case Presentations**  
*Cases must be provided to the Registration Desk by 6 p.m. on Thursday on a USB drive in either PowerPoint or KeyNote format. Cases submitted after this time may not be considered for presentation. All cases will be previewed and sequenced by a moderator.*
- Team Pediatrics – Officials: Philip McClure, MD, and Shawn Standard, MD** *Grand Ballroom A, Level 2*
- 6:30–6:45 Pediatric Hexapods  
*Mark Eidelman, MD*
- 6:45–7:45 Participant Case Presentations
- Team Adult – Officials: Michael Assayag, MD** *Azure Room, Level 2*
- 6:30–6:45 To be advised  
*William Terrell, MD*
- 6:45–7:45 Participant Case Presentations
- Team Foot and Ankle – Officials: Noman Siddiqui, DPM, and Christopher Bibbo, DO** *Grand Ballroom B, Level 2*  
**Expert Panel: Mark Myerson, MD**
- 6:30–6:45 To be advised  
*Mark Myerson, MD*
- 6:45–7:45 Participant Case Presentations
- 7:45 Retire
- 8:00 Organizing Committee and Technical Officials Dinner *(invitation only)* *Four Seasons Hotel, Lobby*

## Day 3: Saturday, August 7

---

6:30–7:00 Carb Loading and Visit Corporate Contingents

Olympic Village

7:00–11:30 Saturday Morning Labs:

### Delegation A-1:

7:00–9:00 Six-axis External Fixation 3 Lab Marine Room, Level 2  
Facilitator: *William Terrell, MD*  
Lab Assistants: *Alexander Cherkashin, MD, and Mikhail Samchukov, MD*

9:00–9:30 Health Break and Visit Corporate Contingents Olympic Village

9:30–11:30 Internal Lengthening Nail Lab Sienna Room, Level 2  
Facilitator: *Michael Assayag, MD*  
Lecturers: *Anil Bhavé, PT, John Herzenberg, MD, Christof Radler, MD, and Shawn Standard, MD*  
Lab Assistants: *TBA*

### Delegation A-2:

7:00–9:00 Internal Lengthening Nail Lab Sienna Room, Level 2  
Facilitator: *Michael Assayag, MD*  
Lecturers: *Anil Bhavé, PT, John Herzenberg, MD, Christof Radler, MD, and Shawn Standard, MD*  
Lab Assistants: *TBA*

9:00–9:30 Health Break and Visit Corporate Contingents Olympic Village

9:30–11:30 Six-axis External Fixation 3 Lab Marine Room, Level 2  
Facilitator: *William Terrell, MD*  
Lab Assistants: *Alexander Cherkashin, MD, and Mikhail Samchukov, MD*

### Delegations B-1 and B-2:

7:00–8:00 Fixator-assisted Plating Lab: Distal Tibial Varus Deformity Grand Ballroom A,  
Level 2  
Facilitator: *Noman Siddiqui, DPM*  
Lab Assistants: *TBA*

8:00–8:30 Health Break and Visit Corporate Contingents Olympic Village

8:30–11:30 Six-axis External Fixation 1 Lab Cobalt Ballroom, Level 2  
Facilitators: *Rudolf Ganger, MD, and Christof Radler, MD*  
Lab Assistants: *TBA*

### Delegation C-1:

7:00–9:00 Six-axis External Fixation 2 Lab Grand Ballroom B, Level 2  
Facilitators: *L. Reid Nichols, MD, and John Herzenberg, MD*  
Lab Assistants: *TBA*

9:00–9:30 Health Break and Visit Corporate Contingents Olympic Village

9:30–11:30 Coxa Vara and Knee Flexion Deformity Lab Azure and Indigo Rooms, Level 2  
Facilitator: *Shawn Standard, MD*  
Lab Assistants: *TBA*



## Day 3: Saturday, August 7

---

### **Delegation C-2:**

- 7:00–9:00 Coxa Vara and Knee Flexion Deformity Lab *Azure and Indigo Rooms, Level 2*  
Facilitator: *Shawn Standard, MD*  
Lab Assistants: *TBA*
- 9:00–9:30 Health Break and Visit Corporate Contingents *Olympic Village*
- 9:30–11:30 Six-axis External Fixation 2 Lab *Grand Ballroom B, Level 2*  
Facilitators: *L. Reid Nichols, MD, and John Herzenberg, MD*  
Lab Assistants: *TBA*
- 11:30–12:15 Refuel *Olympic Village, Level 4*
- 12:15–12:25 Head to Grand Ballroom
- 12:25–12:30 Announcements and Raffles *Olympic Stadium*  
*John Herzenberg, MD*
- 12:30–12:55 Contracture Management and the Latest Advances in Physical Therapy  
*Anil Bhave, PT*
- 12:55–1:15 Radiology Considerations  
*Janet Conway, MD*
- 1:15–1:30 Low-dose Radiation Exposure in Limb Deformity Correction  
*Philip McClure, MD*
- 1:30–1:40 Closing Ceremony and Post-test
- 1:40–2:00 Health Break and Visit Corporate Contingents *Olympic Village*
- 2:00–5:00 *Please visit one or more of the breakout sessions listed below:*

### **Heat 1: Foot and Ankle Specialists**

*Cobalt Ballroom, Level 2*

- 2:00–2:15 Clinical Impact of Poor Biomechanical Frames  
*Byron Hutchinson, DPM*
- 2:15–2:50 Bone Ninja Cases (Workshop)  
*Hummira Abawi, DPM*
- 2:50–3:05 What I Have Applied to My Practice After Attending  
the Baltimore Limb Deformity Course  
*Michael Theodoulou, DPM*
- 3:05–3:20 Clinical Biomechanics of External Fixation  
*Mikhail Samchukov, MD*
- 3:20–3:30 Supramalleolar Osteotomies  
*Noman Siddiqui, DPM*

## Day 3: Saturday, August 7

---

- 3:30–3:45 Distal Tibial Lengthening and Ankle Fusion in Charcot  
*Noman Siddiqui, DPM*
- 3:45–4:00 Percutaneous Bunion Correction: Method and Outcomes  
*Marie Gdalevitch, MD*
- 4:00–4:15 Charcot Joint: Managing Complications  
*Mark Myerson, MD*
- 4:15–4:30 Flaps for the Foot and Ankle: Tips and Tricks  
*Christopher Bibbo, DO*
- 4:30–4:50 External Fixation Solutions for the Foot and Ankle  
*Michael Assayag, MD*
- 4:50–5:00 Discussion

### Heat 2: Pediatric & Adult Orthopedic Specialists (Combined)

*Grand Ballroom A*

- 2:00–2:30 Sagittal Plane Deformities: Knee Flexion Contracture  
Secondary to Lengthening  
*Shawn Standard, MD*
- 2:30–3:15 Femur and Knee: Sagittal Plane Deformities (Lecture and Planning Workshop)  
*Shawn Standard, MD*
- 3:15–3:20 Adult Specialists Head to Grand Ballroom B While Pediatric Specialists Remain

### Heat 3A: Pediatric Orthopedic Specialists

*Grand Ballroom A*

- 3:20–3:35 Periacetabular Osteotomies  
*David Podeszwa, MD*
- 3:35–3:55 Predicting Limb Length Discrepancy and Epiphysiodesis  
(Multiplier Exercises)  
*John Herzenberg, MD*
- 3:55–4:10 Obstacles in Osteogenesis Imperfecta: Limb Reconstruction  
*Jeanne Franzone, MD*
- 4:10–4:35 Lengthening for Congenital Femoral Deficiency  
*Shawn Standard, MD*
- 4:35–4:50 Double-level Osteotomies for Congenital Pseudarthrosis of the Tibia  
*Philip McClure, MD*
- 4:50–5:00 Discussion

## Day 3: Saturday, August 7

---

### Heat 3B: Adult Orthopedic Specialists

Grand Ballroom B

- 3:20–3:30 Bone Ninja as an Educational Tool for Patients  
*Vache Hambarzumyan, MD*
- 3:30–3:45 Bone Transport Options  
*Michael Assayag, MD*
- 3:45–4:05 Fixator-assisted Nailing  
*Christopher Iobst, MD*
- 4:05–4:20 Fixator-assisted Locked Plating  
*Janet Conway, MD*
- 4:20–4:35 Pin and Wire Placement for External Fixators  
*Rishi Thakral, MD*
- 4:35–4:50 High Tibial Osteotomy: Internal Fixation versus External Fixation  
*John Herzenberg, MD*
- 4:50–5:00 To be advised  
*Daniele Sciuto, MD*

5:00 Finish Line