35th Annual Baltimore Limb Deformity Course

Thursday, August 21 – Saturday, August 23, 2025

(as of 04/30/25)



Four Seasons Hotel Baltimore Baltimore, Maryland, USA



CARE BRAVELY

Course Chair

Philip McClure, MD

Course Chair Emeritus

John Herzenberg, MD

LLRS Liaison

David Podeszwa, MD

Course Directors

Michael Assayag, MD Janet Conway, MD Connor Green, MD Noman Siddiqui, DPM Shawn Standard, MD

Endorsed by:



Invited Faculty and Lab Assistants

Hummira Abawi, DPM Columbia, Maryland Calgary, Canada Marcel Abouassaly, MD Mohamed Abu Ain, MD Amman, Jordan Samantha Bark, DPM Galion, Ohio Elhanan Bar-On, MD Ramat Gan, Israel Anil Bhave, PT Baltimore, Maryland Christopher Bibbo, DO Baltimore, Maryland James Blair, MD Atlanta, Georgia Lindsey Calligaro, DPM Wayne, New Jersey Alexander Cherkashin, MD Dallas, Texas Ronald Delanois, MD Baltimore, Maryland Mukachevo, Ukraine Yuriy Demyan, MD Matthew Deren, MD Cleveland, Ohio Nikola Dobrasevic, MD Warren, Michigan Kimberly Doll, DPT Baltimore, Maryland Michael Downey, MD Fort Worth, Texas Mark Eidelman, MD Haifa, Israel Yasser Elbatrawy, MD Cairo, Egypt Atlanta, Georgia Jill Flanagan, MD Jeanne Franzone, MD Wilmington, Delaware Montréal, Canada Marie Gdalevitch, MD Christine Goodbody, MD Philadelphia, Pennsylvania Matthew Greenblatt, DPM West Palm Beach, Florida Peterborough, New Hampshire Vache Hambardzumyan, MD Aaron Huser, DO Saint Louis, Missouri Saad Ilvas, MBBS Lahore, Pakistan **Christopher Iobst, MD** Columbus, Ohio Julio Jauregui, MD Baltimore, Maryland Jessica Knight, DPM Elmhurst, Illinois Iara Lacerda, MD Danville, Pennsylvania Guido LaPorta, DPM Binghamton, New York Paul Matuszewski, MD Lexington, Kentucky James McWilliam, MD White Plains, New York Kenji Miki, MD Osaka, Japan Katherine Miller, MD West Palm Beach, Florida James Nace, DO Baltimore, Maryland Scott Nelson, MD Loma Linda, California L. Reid Boyce Nichols, MD Wilmington, Delaware Benjamin Ollivere, MD Nottingham, United Kingdom Robert O'Toole, MD Baltimore, Maryland Patrick Powell, MD Shreveport, Louisiana Stephen Quinnan, MD West Palm Beach, Florida Christof Radler, MD Vienna, Austria J. Spence Reid, MD Hershey, Pennsylvania Jessica Rivera, MD New Orleans, Louisiana

Daniel Ruggles, DO	Miami, Florida
Babar Shafiq, MD	Baltimore, Maryland
Sanoj Shahul, MD	Washington, DC
Daniel Weltsch, MD	Ramat Gan, Israel
Philip Wrotslavsky, DPM	San Diego, California
Jeffrey Young, MD	Stanford, California

Day 1: Thursday, August 21

2:45-3:00

3:00-5:00

Head to Next Lab

<u> </u>	ar saa,	9 11 u Subt 21	
6:00-7:00	Regis	stration, Breakfast, and Visit with Corporate Partners	Marine Room and Grand Ballroom Pre-function, Level 2
6:00–6:50	Indus	Stry Spotlight Grand Ballroom, Lev Orthofix	
7:00–7:25	Welco	ome Philip McClure, MD, and Ronald Delanois, MD	
7:25–7:45	Introd	duction to Deformity Planning Concepts: The Apex/Axis Method Shawn Standard, MD	and MAP the ABCs
7:45–8:05	Bone	Ninja Sensei Introduction Shawn Standard, MD	
8:05–8:15	-	abet Soup of Limb Alignment (Frontal Plane): MAD, LDFA, MPTFA, and JLCA L. Reid Boyce Nichols, MD	ΓA, LDTA, MPFA,
8:15–8:30	Front	al Plane Measurements on Normal Bones (Planning Workshop) Janet Conway, MD	
8:30–9:15		ssment of Limb Alignment: Frontal Plane MAP (<u>M</u> easure Mechariation, <u>A</u> nalyze Joint Angles, <u>P</u> ick the Bone) (Planning Workshop <i>Marie Gdalevitch, MD</i>	
9:15-9:45	Healt	h Break and Visit with Corporate Partners	Grand Ballroom Pre-function, Level 2
9:45–10:15		s of Deformity Correction: How to Approach Deformity Analysis Osteotomy Planning Shawn Standard, MD	Grand Ballroom, Level 2
10:15–11:05	Tibia	: Frontal Plane Single-level Deformities (Planning Workshop) Michael Assayag, MD	
11:05–11:50	Tibia	: Frontal Plane Double-level Deformities (Planning Workshop) Jill Flanagan, MD	
11:50–12:05	Tips a	and Tricks on Rotation, Length, and Fixation in the Blasted Extremely Robert O'Toole, MD	mity
12:05-12:40	Luncl	heon and Visit with Corporate Partners	Grand Ballroom Pre-function, Level 2
12:40–12:45	Head	to Designated Afternoon Labs	
12:45-5:00	Thur	sday Afternoon Labs	
Groups A-1 and A-2:			
12:45	12:45–2:45 Six-axis External Fixation 4 Lab: Malunion and Valgus Deformity Azure & Indigo Rooms, Lev Lead Facilitator: TBA Facilitators: TBA		

Sienna Room, Level 2

Six-axis External Fixation 2 Lab: Blount Disease

Lead Facilitator: *TBA* Facilitators: *TBA*

Group B-1: 12:45–1:30	TBA Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Vermillion, Level 4
1:30–1:45	Head to Next Lab	
1:45–2:45	TBA Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Grand Ballroom B, Level 2
2:45-3:00	Head to Next Lab	
3:00-5:00	Hexapod/Nail Workshop: Motorized Nail Bone Transport 3 Lab Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Cobalt Ballroom 1, Level 2
Group B-2:		
12:45–2:45	Hexapod/Nail Workshop: Motorized Nail Bone Transport 3 Lab Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Cobalt Ballroom 1, Level 2
2:45-3:00	Head to Next Lab	
3:00–3:45	TBA Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Vermillion, Level 4
3:45-4:00	Head to Next Lab	
4:00-5:00	TBA Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Grand Ballroom B, Level 2
Groups C-1 and C-	2:	
12:45–1:45	Fixator-assisted Plating 5 Lab: Distal Femoral Valgus Deformity Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Marine Room, Level 2
1:45–1:55	Head to Next Lab	
1:55–3:55	Six-axis External Fixation 1 Lab: Malunion, Proximal Tibia Varus Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Cobalt Ballroom 2, Level 2
3:55-4:00	Head to Next Lab	
4:00-5:00	Small Canal Solutions with Intramedullary Nails 2 Lab Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Grand Ballroom A, Level 2
6:15 Depart	rt Hotel for Faculty and Former Fellows Dinner (invitation only, ticket required)	Four Seasons Hotel, Lobby

Day 2: Friday, August 22

6:00-7:00	Break	cfast and Visit with Corporate Partners	Grand Ballroom Pre-function. Level 2
6:00–6:50	Indust	try Spotlight J&J MedTech	Grand Ballroom, Level 2
7:00–7:05	Anno	uncements Philip McClure, MD	
7:05–7:15	Tibia	Review Planning Exercises Philip McClure, MD	
7:15–7:30	Alpha	abet Soup of Limb Alignment (Sagittal Plane): PDFA, PP Connor Green, MD	ΓA, SJLA, ADTA, and SMAA
7:30–8:00	Sagitt	tal Plane Measurements (Planning Workshop) Connor Green, MD	
8:00–8:45	Tibia:	: Sagittal Plane Deformities (Planning Workshop) Michael Assayag, MD	
8:45–9:10	Tibia:	: Introduction to the Oblique Plane Shawn Standard, MD	
9:10–9:30	Tibia	a: Oblique Plane Deformities (Planning Workshop) Janet Conway, MD	
9:30–9:45	Contr	racture Management and the Latest Advances in Physical Anil Bhave, PT	Гhегару
9:45-10:15	<u>Healtl</u>	h Break and Visit with Corporate Partners	Grand Ballroom Pre-function, Level 2
10:15-12:45	Pleas	e visit one of the two breakout sessions listed below:	
Breal	kout Se	ssion 1: Focus on Foot and Ankle Deformities	
10:15	-10:45	Biomechanics of Foot and Ankle <i>Anil Bhave, PT</i>	Grand Ballroom B, Level 2
10:45	-11:45	Alphabet Soup and Deformity Planning Workshop Noman Siddiqui, DPM	
11:45	-12:15	Complex Deformity Planning and Gradual Correction was Saad Ilyas, MBBS	vith Ilizarov Device
12:15	-12:45	Ankle Deformity Correction Guido LaPorta, DPM	
Breal	kout Se	ssion 2: Focus on Femoral Deformities and Limb Leng (Pediatric and Adult Orthopedics)	th Discrepancy
10:15	-11:10	Femur: Frontal Plane Single-level Deformities (Plannin Connor Green, MD	g Workshop) Grand Ballroom A, Level 2
11:10	-11:45	Femur: Frontal Plane Double-level Deformities (Plannin Scott Nelson, MD	ng Workshop)
11:45	-12:30	Femur and Knee: Sagittal Plane Femur (Planning Works Shawn Standard, MD	shop)

	12:30-	-12:45	Blood Flow Restriction Therapy (BFR) for Limb Lengthening Kimberly Doll, DPT	
12:45-	-1:15	Lunch	eon and Visit with Corporate Partners	Grand Ballroom Pre-function, Level 2
1:15-1	1:25	Head t	o Designated Afternoon Labs	
1:25-5	5:30	Friday	Afternoon Labs	
<u>Group</u>	os A-1 a 1:25–2		Six-axis External Fixation 5 Lab: Mid-shaft Tibial Deformity Lead Facilitators: <i>TBA</i> Facilitators: <i>TBA</i>	Marine Room, Level 2
	2:25-2	2:30	Head to Next Lab	
	2:30–5	5:30	Six-axis External Fixation 1 Lab: Fracture, Distal Tibial Maluni with Varus Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	On Cobalt Ballroom 2, Level 2
<u>Group</u>	os B-1 a 1:25–3		Six-axis External Fixation 4 Lab: Post-traumatic Valgus Maluni Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	On Azure & Indigo Rooms, Level 2
	3:25-3	:30	Head to Next Lab	
	3:30–5	:30	Six-axis External Fixation 2 Lab: Miter Frame Lead Facilitators: <i>TBA</i> Facilitators: <i>TBA</i>	Sienna Room, Level 2
<u>Group</u>	1:25–3	:25	Six-axis External Fixation 3 Lab: Blount Disease Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Cobalt Ballroom 1, Level 2
	3:25-3	:30	Head to Workshop	
	3:30–5	:30	Internal Lengthening Nail Workshop Facilitator: <i>TBA</i> Lecturers: <i>TBA</i>	Grand Ballroom B, Level 2
<u>Group</u>	1:25–3	:25	Internal Lengthening Nail Workshop Facilitator: <i>TBA</i> Lecturers: <i>TBA</i>	Grand Ballroom B, Level 2

5:30–7:00 **Case Discussions** (Light snacks to be served)

Head to Next Lab

Lead Facilitator: *TBA* Facilitators: *TBA*

3:25-3:30

3:30-5:30

Cobalt Ballroom 1, Level 2

Six-axis External Fixation 3 Lab: Blount Disease

Pediatric Orthopedics

Moderators: Philip McClure, MD, and Jill Flanagan, MD

Grand Ballroom A, Level 2

Expert Panel: Shawn Standard, MD; Connor Green, MD; and L. Reid Boyce Nichols, MD

5:30–7:00 Case Discussions: From Mild to Wild

Presentations by faculty and participants

Adult Orthopedic Deformities

Moderators: Michael Assayag, MD, and Janet Conway, MD

Azure Room, Level 2

Expert Panel: Paul Matuszewski, MD; Benjamin Ollivere, MD; and Stephen Quinnan, MD

5:30–7:00 Case Discussions: From Mild to Wild

Presentations by faculty and participants

Foot and Ankle

Moderator: Noman Siddiqui, DPM

Grand Ballroom B, Level 2

Expert Panel: Michael Downey, MD; Saad Ilyas, MBBS; Guido LaPorta, DPM; and James McWilliam, MD

5:30–7:00 Case Discussions: From Mild to Wild

What Would You Do? Expert panel to present cases to participants

7:15–9:15 <u>BLDC Dinner</u> (ticket required)

Splash Pool Terrace, Level 4

Day 5. Bat	uruay, mugu		
6:15-6:50	Breakfast and	l Visit with Corporate Partners	Grand Ballroom Pre-function, Level 2
7:00–10:00	Please visit one or more of the three breakout sessions listed below:		
Breal	kout Session 1	Adult Orthopedic Specialists	Sienna Room, Level 2
	7:00–7:15	Osseointegration: Where Are We Now? Stephen Quinnan, MD	
	7:15–7:30	Demystifying the Bone Void Fillers – What to Do wit Paul Matuszewski, MD	h the Data Out There
	7:30–7:45	Knee and Ankle Contractures Michael Assayag, MD	
	7:45-8:00	Discussion	
	8:00–8:15	Bone Transport Nails – Tips and Tricks James Blair, MD	
	8:15–8:30	Deformity Correction and Total Joint Arthroplasty Matthew Deren, MD	
	8:30-8:45	Discussion	
	8:45–9:00	How Many Ways Can I Fix This Tibial Segmental Bo Janet Conway, MD	ne Defect?
	9:00–9:15	5 Orthopedic Infection Frontiers **Benjamin Ollivere, MD**	
	9:15–9:30	Management of Severe Tibial Pilon Fractures – Fix It, Babar Shafiq, MD	Fuse It, or Frame It?
	9:30–9:45	Periprosthetic Fractures and Nonunions James Nace, DO	
	9:45-10:00	Discussion	
Breal	kout Session 2	: Foot and Ankle Specialists	Grand Ballroom B, Level 2
	7:00–7:20	What to Do with Soft Tissue and Bone Defects in Foo Christopher Bibbo, DO	t and Ankle Surgery?
	7:20–7:40	Novel Techniques to Improve Vascular Wounds Alexander Cherkashin, MD	
	7:40–8:00	Minimally Invasive Deformity Correction in Foot and James McWilliam, MD	Ankle Surgery
	8:00-8:10	Discussion	
	8:10-8:30	Biomechanically Building a More Stable External Fix Guido LaPorta, DPM	ator
	8:30–8:50	International Neurogenic Feet, Stirrup Method, and C Saad Ilyas, MBBS	Other Complex Cases
	8:50-9:00	Discussion	

	9:00-9:20	Obtaining Arthrodesis in Complex Patients: What I Do <i>Michael Downey, MD</i>	
	9:20–9:40	Lambrinudi Triple Arthrodesis for Deformity Correction Noman Siddiqui, DPM	n
	9:40-10:00	Discussion	
Break	out Session 3:	Pediatric Orthopedic Specialists	Grand Ballroom A, Level 2
	7:00–7:20	Management of Soft Tissue Defects in Tibial Fractures Connor Green, MD	
	7:20–7:35	Innovative Approaches to the Congenital Ankle <i>Katherine Miller, MD</i>	
	7:35–7:50	Innovations in Limb Lengthening Nails Christopher Iobst, MD	
	7:50-8:00	Discussion	
	8:00-8:15	Update on Medical Treatment for Skeletal Dysplasia Aaron Huser, DO	
	8:15–8:30	3D Printed Osteotomy Guides: The Future? Daniel Weltsch, MD	
	8:30–8:45	What You Didn't Know about Ilizarov Alexander Cherkashin, MD	
	8:45-9:00	Discussion	
	9:00–9:15	Unlocking the Congenital Knee Shawn Standard, MD	
	9:15–9:30	Lengthening and the Congenital Spine Julio Jauregui, MD	
	9:30–9:45	Congenital Pseudarthrosis of the Tibia <i>Philip McClure, MD</i>	
	9:45-10:00	Discussion	
10:00-10:30	Health Break	and Visit with Corporate Partners	Grand Ballroom Pre-function, Level 2
10:30–10:40	Femur Review: Planning Exercises Daniel Ruggles, DO		Grand Ballroom, Level 2
10:40–10:55	Impact of Deformity on Knee Arthroplasty Matthew Deren, MD		
10:55–11:10	Prevention of Contractures During Lengthening Anil Bhave, PT		
11:10–11:25		orsional Malalignment tof Radler, MD	
11:25–11:50	-	2025 and Surgeon Wellness topher Iobst, MD	

11:50–11:55	Discus	ssion		
11:55–12:05	Closing Remarks and Exhibitor Contest Drawing Philip McClure, MD, or John Herzenberg, MD			
12:05-12:25	Lunch	eon (grab lunch and return to the Grand Ballroom)	rand Ballroom Pre-function, Level 2	
12:15–1:05	Industr	ry Spotlight Globus	Grand Ballroom, Level 2	
1:05-1:15	Head t	o Designated Afternoon Labs		
1:15-5:30	Saturo	day Afternoon Labs		
Group A-1: 1:15-3	3:15	Six-axis External Fixation 3 Lab: Tibial Malunion Software Work Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Sshop Cobalt Ballroom 1, Level 2	
3:15-3	3:30	Head to Workshop		
3:30–5:30		Internal Lengthening Nail Workshop Facilitator: <i>TBA</i> Lecturers: <i>TBA</i>	Grand Ballroom B, Level 2	
Group A-2: 1:15-3	3:15	Internal Lengthening Nail Workshop Facilitator: <i>TBA</i> Lecturers: <i>TBA</i>	Grand Ballroom B, Level 2	
3:15-3	3:30	Head to Next Lab		
3:30–5:30		Six-axis External Fixation 3 Lab: Tibial Malunion Software Work Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Schop Cobalt Ballroom 1, Level 2	
Groups B-1 a	and B-2	:		
1:15–2	2:15	Six-axis External Fixation 5 Lab: Ankle Varus and Recurvatum Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Marine Room, Level 2	
2:15-2	2:30	Head to Next Lab		
2:30–5	5:30	Six-axis External Fixation 1 Lab: Malunion, Equinus Deformity Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Cobalt Ballroom 2, Level 2	
Group C-1:				
1:15–3	3:15	Six-axis External Fixation 2 Lab: Malunion with Procurvatum Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Sienna Room, Level 2	
3:15-3	3:30	Head to Next Lab		
3:30-5	5:30	Superhip Procedure with Infant Locking Cannulated Blade Plates and Extensions Osteotomies 2 Lab Lead Facilitator: <i>TBA</i> Facilitators: <i>TBA</i>	Azure & Indigo Rooms, Level 2	

Group C-2:

1:15–3:15 Superhip Procedure with Infant Locking Cannulated Blade Plates and Extensions Osteotomies 2 Lab
Lead Facilitator: *TBA*Facilitators: *TBA*3:15–3:30 Head to Next Lab

3:30–5:30 Six-axis External Fixation 2 Lab: Malunion with Procurvatum
Lead Facilitator: *TBA*

Facilitators: *TBA*