



THURSDAY, MAY 10, 2018

1:00 PM - 3:00 PM RESIDENT / FELLOW SESSION

1:00 PM	Spine Biomechanics	Boyle Cheng, PhD
1:10 PM	Adult Degenerative Deformity - Basic Overview	James Billys, MD
1:20 PM	Pedicle Subtraction Osteotomy / Smith Peterson Osteotomy	John Small, MD
1:30 PM	Minimally Invasive Deformity Correction	James Billys, MD
1:40 PM	Case Presentation - Lumbar	Resident
1:50 PM	Case Presentation - Cervical	Resident
2:00 PM	Case Presentation - Lumbar	Resident
2:10 PM	TBD	Resident
2:20 PM	Q&A with Discussion	
2:20 PM	Adjourn to Anatomic Session	

7:00 PM WELCOME RECEPTION

FRIDAY, MAY 11, 2018

6:30 AM - 8:00 AM REGISTRATION & BREAKFAST

7:00 AM	Welcome Remarks	James Billys, MD
7:05 AM	Castellvi Spine Introduction	

7:20 AM - 9:50 AM SESSION I: Spine Biomechanics & Technology

Moderator:
Boyle Cheng, PhD

7:20 AM	Robots for Reconstruction	Alejandro Castellvi, MD
7:30 AM	Understanding the Interspinous Space	Ira Fedder, MD
7:40 AM	Additive Manufacturing	Lisa Ferrara, PhD
7:50 AM	Surface Modification of PEEK Interbody Devices	Robert Spiro, MD
8:00 AM	Alternative Polymer Materials	Scott Webb, DO
8:10 AM	Biomechanics of Expandable Interbody Devices	Marc Weinstein, MD
8:20 AM	Next Generation of Biomaterials	William Welch, MD
8:30 AM	Evidence Based Outcomes for Motion Preservation Devices	Rolando Garcia, MD
8:40 AM	MIS Approaches and the Biomechanics of Stability	Devin Datta, MD
8:50 AM	TDR - Where Do We Stand	Neel Anand, MD
9:10 AM	NON CME: Advances in Interbody Material Science: Surface, Structure and Imaging Characteristics	Greg Williams, PhD
9:30 AM	NON CME: Clinical Applications of 3D Printing and Porous PEEK	Najeeb Thomas, MD
9:50 AM	Q&A with Discussion	

10:10 AM - 10:40 AM BREAK



10:40 AM	-	11:50 AM	SESSION II: Regenerative Medicine	Moderator: Farhan Siddiqi, MD
10:40 AM			Tissue Engineering	
10:50 AM			Stem Cell	
11:00 AM			Spinal Cord Cell Regeneration Following Spinal Cord Injury	
11:10 AM			Bone Regeneration	
11:20 AM			Regrowing Organs Through 3D Printing	
11:30 AM			Immune System Modification; Alter Host Environment to Enhance Healing	
11:40 AM			Q&A with Discussion	
11:50 AM	-	2:40 PM	SESSION III: Advances in Spinal Technology	Moderator: John Small, MD
			<i>Is the Price of Navigation Worth the Cost of Admission</i>	
11:50 AM			PRO	
12:00 PM			CON	Marc Weinstein, MD
			<i>Is Post Expandable Technology Worth It When You Can Just Do and MIS ALIF?</i>	
12:10 PM			PRO	Joseph Zavatsky, MD
12:20 PM			CON	Neel Anand, MD, Mch
12:30 PM			Q&A with Discussion	John Small, MD
			<i>Is a Lumbar TDR work vs a standalone ALIF?</i>	
12:40 PM			PRO	Rolando Garcia, MD
12:50 PM			CON	Marc Weinstein, MD
1:00 PM			Lunch	
			<i>Is BMP & PEEK Worth It vs Textured PEEK of 3D Printing Technology</i>	
1:30 PM			PRO	William Welch, MD
1:40 PM			Textured PEEK	Robert Isaacs, MD
1:50 PM			3D Printing	Boyle Cheng, PhD
2:00 PM			Q&A with Discussion	John Small, MD
			<i>Post Facet Replacement</i>	
2:10 PM			PRO	Scott A. Webb, MD
2:20 PM			CON	William Welch, MD
			<i>Robotic Screw Placement vs Fluro</i>	
2:30 PM			PRO	Steven Tresser, MD
2:40 PM			CON	Scott A. Webb, MD
2:50 PM			Q&A with Discussion	John Small, MD
3:00 PM			Adjourn for the Day	



SATURDAY, MAY 12, 2017

6:30 AM - 7:30 AM BREAKFAST

7:30 AM - 9:30 AM SESSION IV: Complications & Solutions

**Moderator:
Neel Anand, MD, Mch**

7:30 AM	L5S1 ALIF Pseudo	Devin Datta, MD
7:40 AM	Cervical Pseudo	
7:50 AM	Cerebrospinal Fluid Leaks	William Welch, MD
8:00 AM	Q&A with Discussion	Neel Anand, MD, Mch
8:10 AM	Proximal Junctional Kyphosis	Joseph Zavatsky, MD
8:20 AM	Flat Back Deformity	John Small, MD
8:30 AM	Q&A with Discussion	Neel Anand, MD, Mch
8:40 AM	Infected Hardware	Sheyan Armaghani, MD
8:50 AM	Not Understanding Situational Awareness	Ryan Murtagh, MD
9:00 AM	Q&A with Discussion	Neel Anand, MD, Mch
9:10 AM	Managing Complications in Outpatient Surgery C&R	Reginald Davis, MD, FACS
9:20 AM	Navigation Complications & Solutions	Alejandro Castellvi, MD
9:30 AM	C5 Nerve Palsy	William Tally, MD
9:40 AM	Q&A with Discussion	Neel Anand, MD, Mch

10:00 AM - 10:30 AM BREAK

10:30 AM - 12:10 PM SESSION V: Advances in Spinal Technology

10:30 AM	<u>Pseudarthrosis</u> Post Cervical Surgery	
10:40 AM	Cervical Complications Following Treatment of Cervical spondylosis with cervical myelopathy	Richard Sasso, MD
10:50 AM	Risk Factors of Postop Neurologic Decline in Spinal Deformity Surgery	Steven Tresser, MD
11:00 AM	Q&A with Discussion	
11:10 AM	DVT Post Surgery	William Tally, MD
11:20 AM	Complications of Tranexamic Acid TS	Richard Hynes, MD, FACS
11:30 AM	Outcomes of Complications in Elderly Patients	John Small, MD
11:40 AM	Q&A with Discussion	
11:50 AM	Epidural Hematoma	Sheyan Armaghani, MD
12:00 PM	Complication Spinal Fixation & Osteoporosis	Ira Fedder, MD
12:10 PM	Q&A with Discussion	

12:30 PM Lunch



1:00 PM	-	2:30 PM	SESSION VI: The State of Spine; Motion Preservation; What Is Still Standing?	Moderator: Ira Fedder, MD
1:00 PM			State of the Spine Market	Robin Young, CFA
1:20 PM			HONOR FLIGHT	Lt. General (Ret) AF, William Welser
1:40 PM			Outpatient Surgery in the Present Time	Farhan Siddiqi, MD
1:50 PM			Outpatient Surgery in the Near Future	Reginald Davis, MD, FACS
2:00 PM			KEYNOTE: Cervical Deformity	Richard Sasso, MD
2:10 PM			Q&A with Discussion	Ira Fedder, MD
2:30 PM	-	3:20 PM	SESSION VII: Game Changers in Spine Surgery	Moderator: Faculty
2:30 PM			Why is there Increasing Pseudarthrosis in Multilevel ACDF?	Richard Hynes, MD, FACS
2:45 PM			Real Time Intraoperative Spinal Balance Correction	Robert Isaacs, MD
3:00 PM			Q&A with Discussion	
3:20 PM			Course Adjourns	