Agenda
Saturday, Jan. 29, 8:00 – 3:20 p.m. EST

Degeneration/Deformity/Tumor

8:00 a.m.  Welcome and Introductions - Course Directors

8:05  SI Fusion - Outcomes and Complications
      Peter Grossi, MD

8:20  Experience with OLIF
      Melissa Erickson, MD

8:35  Neurorestorative Approaches for Back Pain
      Nandan Lad, MD, PhD

8:50  The Transition from Shallow to Deep Medicine in Adult Deformity Surgery
      Christopher Ames, MD

9:05  Using Molecular Targets for Decision Making in Spine Oncology Surgery &
      Other Innovations in Spine Oncology Surgery
      Rory Goodwin, MD, PhD

9:20  Peripheral Blocks to Reduce Perioperative Narcotics
      Clifford Crutcher, MD

9:35  Break

General Interests

9:50  Leadership Strategies to Drive Results
      Shilpa Shelton, MHA, FACHE

10:05  Ethics in Spine Surgery: Shedding Light on the Doctor-Patient Relationship
       Theresa Williamson, MD

10:20  The Future of Evidence-Based Spine Care – A Population Health Perspective
       Christine Goertz, PhD

10:35  Updates on IOM Techniques for Spine Surgery
       Emily Kale, BS, R. EP T., CNIM

10:50  TBD

11:05  Spine Care 10 Years from Now
       Christopher Shaffrey, MD

11:35  Break
**Interventional and Regeneration**

12:05  
**Titanium Implant Kyphoplasty Using SpineJack: Background, Patient Selection, Technique, Cost, and Outcomes Compared to Balloon Kyphoplasty**  
Alan Sag, MD

12:20  
**Cooled Radiofrequency Ablation in Treatment of Chronic Back Pain**  
Gloria Liu, MD

12:35  
**Incorporating Ultrasound and Prolotherapy in Modern PM&R Practice**  
Michael Boyd, DO

12:50  
**Stem Cells for Disc Degeneration**  
Domagoj Coric, MD

1:05  
**An Overview of Regenerative Medicine for Spine Conditions**  
Wenchun Qu, MD, PhD

1:20  
**Break**

**MIS, Robots, Navigation, and AR**

1:35  
**Endoscopic Spine Surgery**  
Michael Wang, MD

1:50  
**Adventures in Kambin's Triangle - Evolution of Techniques for Percutaneous Lumbar Interbody Fusion and Radiation Reduction in MIS Surgery**  
Muhammad Abd-El-Barr, MD, PhD

2:05  
**Novel Uses of Atlantoaxial Intra-Articular Grafts and Indirect Decompressive Maneuvers for Treatment of Craniovertebral Junction Pathology**  
Deb Bhowmick, MD

2:20  
**Navigation and Robotic Complication Avoidance in Spine Surgery**  
Praveen Mummaneni, MD

2:35  
**Pushing the Envelope in Robotic Spine Surgery**  
Ronald Lehman, MD

2:50  
**Robotics Early Experience**  
Phillip Horne, MD, PhD

3:05  
Samuel Browd, MD, PhD

3:20  
**Closing Remarks**
Guest Speakers

Christopher Ames, MD
Professor of Neurological Surgery
University of California, San Francisco

Deb Bhowmick, MD
Associate Professor & Section Chief Spinal Neurosurgery
Medical Director, UNC Hospitals Spine Center
University of North Carolina

Samuel Browd, MD, PhD
Professor of Neurological Surgery
Director, Seattle Children’s Hydrocephalus Program
Medical Director, Seattle Children’s Sports Concussion Program
Director, The Sports Institute
University of Washington

Domagoj Coric, MD
Professor, Orthopedic Surgery
Chief, Spine Division
Atrium Health Musculoskeletal Institute

Ronald A. Lehman, Jr., MD
Professor, Orthopedic Surgery
Chief, Degenerative and Minimally Invasive Spine Surgery
Director, Robotic Spine Program
Co-Director, Complex Pediatric and Adult Spine Fellowship
Columbia University

Praveen Mummaneni, MD
Professor and Vice Chair, Department of Neurosurgery
Director, Cervical Spine Program
Director, Minimally Invasive Spine Program
Director, Minimally Invasive and Complex Spine Fellowship Program
Co-Director, Spine Center
University of California, San Francisco

Wenchun Qu, MD, PhD
Associate Professor of Anesthesiology
Associate Professor of Physical Medicine and Rehabilitation
Mayo Clinic

Michael Y. Wang, MD, FACS
Professor, Neurological Surgery & Rehab Medicine
Director, Spine Fellowship
Chief of Neurosurgery, University of Miami Hospital
University of Miami Miller School of Medicine

Theresa Williamson, MD
Faculty, Spine Section
Department of Neurosurgery
Harvard Medical School/MGH
Duke Speakers

Muhammad Abd-El-Barr, MD, PhD
Assistant Professor
Department of Neurosurgery

Melissa Erickson, MD
Assistant Professor
Department of Orthopaedic Surgery

Rory Goodwin, MD, PhD
Assistant Professor
Department of Neurosurgery

Phillip Horne, MD, PhD
Clinical Associate
Department of Orthopaedic Surgery

Nandan Lad, MD, PhD
Professor
Department of Neurosurgery

Alan Sag, MD
Assistant Professor
Department of Radiology

Shilpa Shelton, MHA, FACHE
Associate Vice President for
Musculoskeletal and Spine Services

Michael Boyd, DO
Assistant Professor
Department of Orthopaedic Surgery

Clifford Crutcher, MD
Assistant Professor
Department of Neurosurgery

Christine Goertz, PhD
Professor
Department of Orthopaedic Surgery

Peter Grossi, MD
Assistant Professor
Department of Neurosurgery

Emily Kale, BS, R. EP T., CNIM
Director of Operations
Neurology Administration

Gloria Liu, MD
Assistant Professor
Department of Orthopaedic Surgery

Chris Shaffrey, MD
Chief, Spine Division
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Professor of Orthopaedic Surgery