



# Pittsburgh Spine Summit

August 10-12, 2023  
Allegheny General Hospital  
Pittsburgh, Pennsylvania



Sponsored by:  
Allegheny Health Network Neuroscience Institute  
Allegheny General Hospital  
Pittsburgh, Pennsylvania

## Conference overview

The Pittsburgh Spine Summit is an annual meeting devoted to advancing the field of spine surgery through the exposition of relevant spine surgical skills, advanced technologies and complications from master spine surgeons. The program is designed for senior-level residents and early-career spine surgeons from both Neurosurgery and Orthopedic Surgery backgrounds. Physician assistants, nurse practitioners, nurses and other physicians involved in the care of patients with spinal disease are also encouraged to attend. This will be an in-person hands-on laboratory and didactic event, with the option for attendees to participate in the didactic portion virtually.

The course will consist of:

- Lectures from world-renowned invited faculty discussing their most complicated cases
- Presentation of standard and advanced approaches for the thoracolumbar and cervical spine
- Hands-on cadaver dissection sessions which will expose attendees to and reinforce their knowledge in the latest technology in minimally invasive surgical techniques
- Interactive case review sessions with invited faculty

Every year a host of preeminent surgeons take the stage to discuss their most thought-provoking lessons gained from their surgical experience. Past keynote speakers have included Volker Sonntag, MD; Hansen Yuan, MD; Arthur Steffe, MD; Edward Benzel, MD; and Hamilton Hall, MD.

Intended Audience: neurosurgeons, orthopaedic spine surgeons, residents, medical students, basic science researchers, physician assistants, nurse practitioners, nurses and others interested in the latest advances in spine surgery.

## Conference objectives

At the end of this course, attendee will be able to

- Practice complex surgical techniques
- Perform implant techniques
- Perform robot assisted procedures
- Describe osteobiologics and usage
- Demonstrate and apply advanced spinal techniques

## CME accreditation

This conference will provide a total of 5.25 hours of education.

Friday: 2.75 | Saturday: 2.50

### Accreditation

Allegheny General Hospital is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians. Allegheny General Hospital designates this live activity for a maximum of 1.0 *AMA PRA Category 1 Credit*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### Disclosure Statement

In accordance with the Accreditation Council for Continuing Medical Education (ACCME) and the policy of Allegheny General Hospital, presenters must disclose all relevant financial relationships, which in the context of their presentation(s), could be perceived as a real or apparent conflict of interest, (e.g., ownership of stock, honorarium, or consulting fees). Any identifiable conflicts will be resolved prior to the activity. Any such relationships will be resolved prior to the activity. Any such relationships will be disclosed to the learner prior to the presentation(s).

AHN CME Website

<https://cme.ahn.org>

## Program Agenda

### Thursday, August 10

#### Sponsored Resident Surgical Skills Day (Non-CME)

- 11:00 a.m. Registration and Lunch
- 12:00 – 4:00 p.m. Hands on Resident Skills Competition
- 6:00 p.m. Reception, Meet the Masters, Fairmont Hotel

### Friday, August 11, 2023

#### Sponsored Resident Lectures and Hands-On Cadaver Lab (Non-CME)

- 6:30 a.m. Registration and Breakfast
- 7:00 a.m. Sponsored Lecture: Title TBA
- 8:00 a.m. Cadaver Lab Morning Session
- 11:15 a.m. Sponsored Lunch
- 11:55 a.m. Cadaver Lab Afternoon Session

### Official Spine Summit Kickoff

- 2:00 p.m. Welcome and Introduction, **Donald Whiting, MD**
- 2:15 – 3:30p.m. Spine Surgery Complications Competition (CME), **Moderator: TBD**
- |                      |                             |
|----------------------|-----------------------------|
| Complications Talk 1 | <b>Joseph Cheng, MD</b>     |
| Complications Talk 2 | <b>Scott Blumenthal, MD</b> |
| Complications Talk 3 | <b>Jon Yoon, MD</b>         |
| Complications Talk 4 | <b>John France, MD</b>      |
| Complications Talk 5 | <b>Douglas Orr, MD</b>      |
- 3:30 – 3:45 p.m. Break and Visit Exhibits
- 3:45- 5:00 p.m. Spine Surgery Complications Competition Continued (CME)
- |                       |                          |
|-----------------------|--------------------------|
| Complications Talk 6  | <b>James Billys, MD</b>  |
| Complications Talk 7  | <b>William Welch, MD</b> |
| Complications Talk 8  | <b>Larry Khoo, MD</b>    |
| Complications Talk 9  | <b>Neel Anand, MD</b>    |
| Complications Talk 10 | <b>Paul Arnold, MD</b>   |
- 7:00 p.m. Spine Summit Opening Reception, Fl.2, Fairmont Hotel

## Saturday, August 12, 2023

7:30 a.m. Registration and Breakfast

8:00 a.m. – 12:00 p.m. Cadaver Lab Workshop: Hands on With New Technologies  
Center For Surgical Arts Lab

### Featured Technology Lunch Session, Moderator: TBD (Non-CME)

12:00 p.m. Chemoneucleosis, **Douglas Beall, MD**

12:10 p.m. In Vitro Processing Production (Virtual), **Robert Spiro, PhD**

12:20 p.m. Targeted Immunotherapies , **Jerome Connor, PhD**

12:30 p.m. Posterior Dynamic Stabilization Facet Replacement, **Donald Whiting, MD**

12:40 p.m. Augmented Nucleus Therapies **TBD**

12:50 p.m. Connective Tissue Matrices, **Kelly Hyatt, MD**

### Advanced Spinal Surgery Session, Moderator TBD (CME)

1:00 p.m. The First Series of Revision for Cervical Arthroplasty, **Scott Blumenthal, MD**

1:10 p.m. Advanced Technologies for Anterior Columns, **Tom Headman, MD**

1:20 p.m. Cranio-cervical Junction Considerations, **Jonathan Pace, MD**

1:30 p.m. Interspinous Decompression Spacers – Claudication/Facet Motion, **Douglas Beall, MD**

1:40 pm. Posterior Column Motion Preservation, **William Welch, MD**

1:50 p.m. Claudication, **Douglas Orr, MD**

2:00 p.m. MIS Front/Back Procedures, **Larry Khoo, MD**

2:10 p.m. Integrated Supplemental Fixation for Interbody Devices, **Neel Anand, MD**

2:20 p.m. Break and Visit Exhibits

### New Technologies and Biologics Session, Moderator: Robert Spiro, MD (CME)

2:30 p.m. Nucleus Augmentation, **Jonathan Karnes, MD**

2:40 p.m. Masquet Models, **Liz Pluhar, DVM, PhD**

2:50 p.m. Degenerative SI vs. Traumatic Pelvic Fixation, **Daniel T. Altman, MD**

3:00 p.m. Anatomical Considerations: SI Joint Orientation, **Brian Kelly, PhD**

3:10 p.m. Robot Assisted Surgeries, **Cory Walker, MD**

3:20 p.m. Best Practices in Biomechanics for Regulatory Purposes, **Lisa Ferrara, PhD**

3:30 p.m. Closing Remarks, **Boyle Cheng, PhD**

6:00 p.m. Closing Reception, Heinz History Center

## Conference Director



### **Boyle Cheng, PhD**

Director of Translational Research  
Neuroscience and Orthopaedic Surgery  
AlleghenyHealth Network

## Conference Co-directors



### **Alexander Yu, MD**

Department of Neurosurgery  
Allegheny Health Network



### **Daniel T. Altman, MD**

Department of Orthopaedic Surgery  
Allegheny Health Network  
Professor of Orthopaedic Surgery  
Drexel University College of Medicine

## Invited Faculty



### **Neel Anand, MD**

Professor of Orthopaedic Surgery  
Cedars-Sinai Spine Center  
Los Angeles, California



### **Paul Arnold, MD, FACS, FAANS**

Professor and Chairman of Neurosurgery  
Carle Illinois College of Medicine  
Urbana, Illinois



### **Douglas Beall, MD**

Clinical Radiology of Oklahoma  
Oklahoma City, Oklahoma



### **James Billys, MD**

University of Florida  
Tampa, Florida



### **Scott Blumenthal, MD**

Co-Founder, Center for Disc Replacement  
Texas Back Institute  
Plano, Texas



### **Joseph Cheng, MD, MS**

Frank H. Mayfield Professor and Chair  
University of Cincinnati College of Medicine  
Cincinnati, Ohio



### **Jerome Connor, PhD**

Vice President, Research and Development  
Cerapecics  
Westminster, Colorado



### **Lisa Ferrara, PhD**

Hypoid Ventures, LLC  
Hendersonville, North Carolina



### **John France, MD**

Professor and Vice Chairman  
West Virginia University  
Morgantown, West Virginia



### **Jakob Godzik, MD**

University of Alabama  
Birmingham, Alabama



### **Kelly Hiatt, MD**

Otolaryngology  
Community Hospital East  
Indianapolis, Indiana



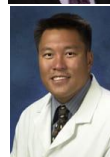
### **Jonathan Karnes, MD**

Assistant Professor of Clinical Orthopaedics  
Wexner Medical Center  
Columbus, Ohio



### **Brian Kelly, PhD**

Assistant Professor, Spine Biologics  
Barrow Neurologic Institute  
Phoenix, Arizona



### **Larry Khoo, MD**

The MIS Spine Clinic  
Honolulu, Hawaii



### **Daniel Laich, DO**

Swedish Covenant Hospital  
Chicago, Illinois



### **Matthew Myntti, PhD**

Chief Technology Officer  
NextScience  
Jacksonville, Florida



**Douglas Orr, MD**  
Cleveland Clinic, Center for Spine Health  
Cleveland, Ohio



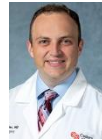
**Jonathan Pace, MD**  
Assistant Professor  
Beth Israel Lahey Clinic  
Boston, Massachusetts



**G. Elizabeth Pluhar, DVM, PhD**  
College of Veterinary Medicine  
St. Paul, Minnesota



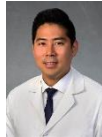
**Robert C. Spiro, PhD**  
Senior Vice President  
Biologics Development  
Aesculap, Inc.



**Corey Walker, MD**  
Assistant Professor  
Cedars Sinai  
Los Angeles, California



**William Welch, MD**  
Professor of Neurosurgery and Orthopaedic Surgery  
Pennsylvania Hospital  
Philadelphia, Pennsylvania



**Jon Yoon, MD, MSc, FAANS**  
Assistant Professor, Department of Neurosurgery  
Pennsylvania Hospital  
Philadelphia, Pennsylvania

## Allegheny Health Network Faculty



**Justin Davanzo, MD**  
Department of Neurosurgery  
Allegheny Health Network



**Jody Leonardo, MD**  
Director, Residency Program  
Assistant Professor of Neurosurgery



**Lara Massie, MD**  
Department of  
Neurosurgery



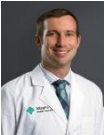
**Daniel Myers, MD**  
Department of Neurosurgery



**Michael Patterson, MD**  
Anesthesiology/Pain Management



**Richard Prostko, MD**  
Vice Chairman



**Ryan Sauber, MD**  
Department of Orthopaedic Surgery



**Nestor Tomycz, MD**  
Department of Neurosurgery



**Alexander Whiting, MD**  
Department of Neurosurgery



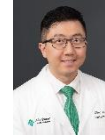
**Donald Whiting, MD**  
Department of Neurosurgery



**Richard Williamson, MD**  
Department of Neurosurgery



**Matthew Shepard, MD**  
Department of Neurosurgery



**Chen Xu, MD**  
Department of Neurosurgery

## Registration

To register, please email:  
[Michele.birgelen@ahn.org](mailto:Michele.birgelen@ahn.org)

Additional information can be found at [cme.ahn.org](http://cme.ahn.org)

## Accommodations

A block of rooms has been reserved for faculty and registrants at the Fairmont Hotel Pittsburgh. Please provide dates of stay and a room will be reserved for you.