

Preliminary Program

Advanced Techniques in Complex Pediatric Spine Surgery

A Hands-on Bioskills Course

May 16 – 17, 2014

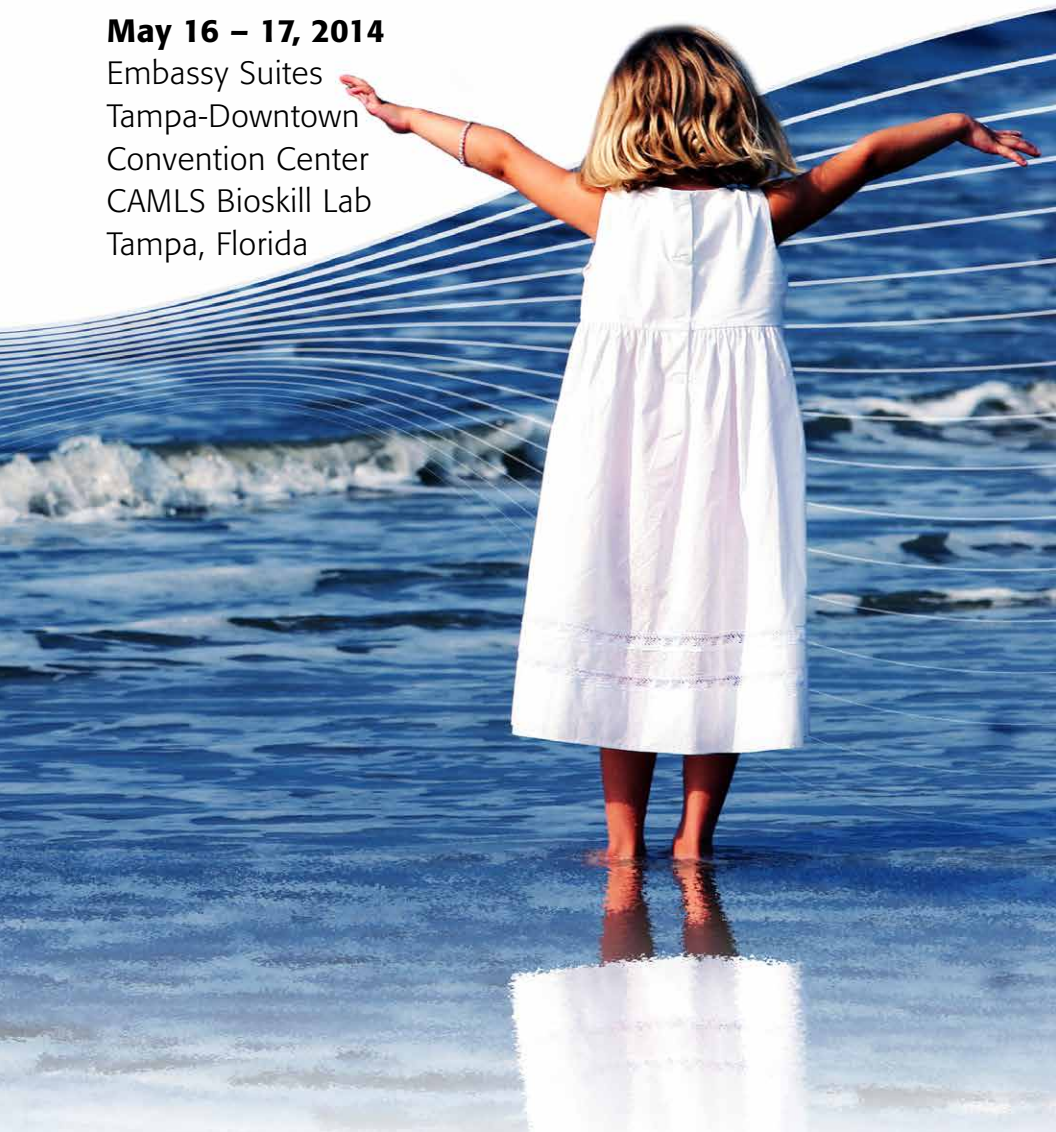
Embassy Suites

Tampa-Downtown

Convention Center

CAMLS Bioskill Lab

Tampa, Florida



Our purpose and responsibility is to shape our members' skills and understanding of spine principles; to establish new values and incentives for the creation of knowledge, the sharing of wisdom and the development of new tools and techniques that improve patient care, patient outcomes and the cost effectiveness of spine surgery.

Excellence in Spine



Table of Contents

CME Mission Statement	4
Course Description	5
Target Audience	6
Learner Objectives	6
Accreditation	6
Designation Statement	6
Faculty	7
Preliminary Program	8 – 10
Presentation Information	11
Tuition and Registration	12
Travel and Hotel	13

Message from AOSpine North America Chairman

Welcome to AOSpine North America!

As Chairman of AOSpine North America it is my distinct pleasure to introduce you to this unique and exciting organization. I invite you to play an active role in advancing interdisciplinary spine care, education and research through the many opportunities afforded by AOSpine North America. We pride ourselves in being part of the largest global, academically oriented interdisciplinary fellowship of spine surgeons.

Dramatic challenges to health care and expectations around patient care delivery are mandating a shift in the way spine surgeons practice. Evidence-based, multidisciplinary care is replacing previous models of practice and this is an area where the AO can add significant educational value.

The AO ('Arbeitsgemeinschaft Osteosynthesefragen') is a noncommercial entity dedicated to education, research and advancement of surgical care provided in a fellowship of like-minded surgeons spanning the globe. Based on the concepts and philosophies of the AO, AOSpine International (AOSI) has enjoyed an amazing growth in membership and activities. AOSI is regionally represented by North America, Latin America, Asia-Pacific, Europe, and the Middle East. AOSI (currently chaired by Dr. Jeff Wang of Los Angeles) coordinates and oversees the global educational and research offerings. These include the Global Spine Congress, the World Forum for Spine Research, publishing 2 Spine periodicals (Evidence Based Spine-care Journal (EBSJ), The Global Spine Journal and a number of textbooks on spine care, as well as organizing a sizeable number of educational and research offerings.

Activities of AOSpine North America include educational events delivered by recognized leaders in their fields. In addition to education there is a multicenter research network constituted by premier North American institutions with award-winning projects (AOSNA Clinical Research Network) North America's largest peer-reviewed fellowship support program, and many peer-reviewed grant-funding opportunities. As an organization we also enjoy an ongoing strong partnership with AO North America for educational support and direction, featuring a well-established Continuing Medical Education organization with common commitment to the AO principles and the "AO family" in North America. In contrast to many other formal societies we are intentionally inclusive of specialties and origins and value our straightforward ability to provide academic advancement with the least amount of bureaucracy.

These are exciting times. We hope you will enjoy your exposure to AOSpine North America and join us in our further development as an active participant!

With warm regards,



Michael G. Fehlings, MD, PhD, FRCSC, FACS
Chairman, AOSpine North America

CME Mission Statement

The Continuing Medical Education (CME) mission of AO North America (AONA®) is to provide comprehensive multidisciplinary needs based education to surgeons, fellows, and residents in the specialties of orthopaedic, hand, craniomaxillofacial, spine, and veterinary surgery in the areas of trauma (i.e., operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of AONA's CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level
- Apply and document competencies in areas of relevant advances in knowledge in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques into patient care resulting in improved competence
- Address practice performance gaps by improving management of all aspects of musculoskeletal injuries and disorders (i.e., pre-operative planning to post-operative care)





Course Overview

There is significant benefit to cross fertilization of knowledge and techniques between the Pediatric Orthopaedic and Neurological Spine surgeon disciplines to facilitate more cooperation and coordinated care for children. Participants will build a better foundation to manage this complex patient population and develop a cooperative working relationship within the two disciplines. Topics for discussion include pediatric spinal deformity, adolescent idiopathic scoliosis, cervical spine deformity, pediatric spinal cord management, advanced treatment options and new techniques. An internationally recognized Faculty with specific expertise in various aspects of Pediatric Spinal surgery will participate.

The case based format will include brief lectures, case presentations with expert faculty, small group discussions, and a bioskills lab. Cases will illustrate specific problems, principles, or techniques in different areas of complex pediatric spine surgery including growing instrumentation, pedicle and transarticular screws, vertebral osteotomies and vertebral column resection.

Through intensive, hands on sessions utilizing human anatomic specimens, participants will engage in surgical techniques and strategies for a range of spinal procedures. Led by experienced faculty, the course provides a forum for exposure to the latest cutting edge techniques used in pediatric spine surgery. Significant time is dedicated to operative indication discussions. The problem-based decision making process is emphasized during these very interactive discussions.

Target Audience

The target audience for this one and a half day course is Pediatric Orthopaedic and Neurological Spine surgeons that participate in the care of complex spinal deformities in children.

Learner Objectives

At the conclusion of this Course, the participant should be able to:

- Develop a complete, comprehensive evaluation of a child with a complex spinal deformity
- Assess the patient in terms of natural history, medical limitations, patient concerns, and treatment expectations
- Order and interpret appropriate imaging and use appropriate diagnostic tools to assess spinal balance, flexibility, and spinal cord anomalies
- Use evidence-based decision making when recommending non-surgical and surgical options for treating children with a complex spinal deformity including the optimal timing of intervention
- Explain relevant spinal anatomy, including regional nuances
- Employ physiological and surgical principles to spinal fusion and instrumentation
- Select and perform appropriate surgical procedures for specific indications;
- Develop and enhance surgical skills and techniques to perform the surgical procedures including growing instrumentation, pedicle and transarticular screws, vertebral osteotomies and vertebral column resection using human anatomic specimens as models
- Prevent/manage operative and postoperative complications
- Use outcome measures to assess the effectiveness of each intervention.

Accreditation



This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of AO North America and AOSpine North America. The AO North

America is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement

AO North America designates this Live educational activity for a maximum of 12.75 **AMA PRA Category 1 Credits™**. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Faculty

The faculty of this Course is composed of international surgeons distinguished in the field of operative fracture care.

Course Co-Chairmen

Jean Ouellet, MD, FRCSC

Chair of McGill Scoliosis &
Spinal Research
Division of Orthopaedics
McGill University
Deputy Chief of Montreal
Shriners Hospital
Montreal, Quebec

John T. Smith, MD

Professor
University of Utah
Chairman, Division of Orthopedics
Primary Children's Medical Center
Salt Lake City, Utah

Education Advisor

John C France, MD

Professor, Orthopaedics &
Neurosurgery
Department of
Orthopaedic Surgery
West Virginia University
Chief of Spine Surgery
Morgantown, West Virginia

Invited Faculty

Richard C. E. Anderson, MD

Pediatric Neurosurgery
Columbia University
New York, New York

Randal R. Betz, MD

Emeritus Chief of Staff
Pediatric Spine Surgeon-Orthopedic
Medical Director, Spinal Cord Injury Unit
Shriners Hospitals for Children—Philadelphia
Philadelphia, Pennsylvania

Douglas Brockmeyer, MD

Professor of Neurosurgery
Chief of Pediatric Neurosurgery
University of Utah Medical Center
Salt Lake City, Utah

Ron El-Hawary, MD, MSc, FRCSC

Associate Professor
Dalhousie University
Chief of Paediatric Orthopaedics
IWK Health Center
Halifax, Nova Scotia

John Emans, MD

Director Division of Spine Surgery
Department of Orthopaedic Surgery
Children's Hospital
Professor, Harvard Medical School
Boston, Massachusetts

Stephen Lewis, MD, MSc, FRCSC

Associate Professor
University of Toronto
Toronto Western Hospital
Toronto, Ontario

Stefan Parent, MD, PhD

Associate Professor
Department of Surgery
University of Montreal
Montreal, Quebec

Amer Samdani, MD

Chief of Surgery
Shriners Hospitals for Children
Philadelphia, Pennsylvania

Preliminary Program

Friday May 16, 2014

Time	Agenda Item	Lecturer
06:30 – 07:15	Registration/Breakfast at Hotel	
07:15 – 07:30	Travel to Lab	
07:30 – 07:40	Welcome and Introductions to Case Base Learning	Ouellet Smith
07:40 – 07:45	Travel to Module	
07:45 – 08:55	Module A – Early Onset Scoliosis	El-Harwany Smith
07:45 – 08:55	Module B – Cervical/Spasticity	Anderson Brockmeyer Samdani
07:45 – 08:55	Module C – Neuromuscular Scoliosis	Lewis Samdani
07:45 – 08:55	Module D – Adolescent Idiopathic Scoliosis	Parent Ouellet
08:55 – 09:05	Travel to Module	
09:05 – 10:15	Module A – Early Onset Scoliosis	El-Harwany Smith
09:05 – 10:15	Module B – Cervical/Spasticity	Anderson Brockmeyer Samdani
09:05 – 10:15	Module C – Neuromuscular Scoliosis	Lewis Samdani
09:05 – 10:15	Module D – Adolescent Idiopathic Scoliosis	Parent Ouellet
10:15 – 10:25	Travel to Module	
10:25 – 11:25	Module A – Early Onset Scoliosis	El-Harwany Smith
10:25 – 11:25	Module B – Cervical/Spasticity	Anderson Brockmeyer Samdani

Preliminary Program

Friday May 16, 2014 (continued)

Time	Agenda Item	Lecturer
10:25 – 11:25	Module C – Neuromuscular Scoliosis	Lewis Samdani
10:25 – 11:25	Module D – Adolescent Idiopathic Scoliosis	Parent Ouellet
11:25 – 11:35	Travel to Module	
11:35 – 12:35	Module A – Early Onset Scoliosis	El-Harwary Smith
11:35 – 12:35	Module B – Cervical/Spasticity	Anderson Brockmeyer Samdani
11:35 – 12:35	Module C – Neuromuscular Scoliosis	Lewis Samdani
11:35 – 12:35	Module D – Adolescent Idiopathic Scoliosis	Parent Ouellet
12:35 – 13:35	Lunch	
13:35 – 17:35	PRACTICAL EXERCISES – Posterior Deformity Correction – Anterior Deformity Correction – Pediatric Cervical Spine Pathology – Growing Spine Techniques	
17:35 – 18:35	Afternoon Debriefing Quiz Consult With The Expert	
17:35 – 17:50	– Early Onset Scoliosis	
17:50 – 18:05	– Congenital Scoliosis	
18:05 – 18:20	– Adolescent Idiopathic Scoliosis	
18:20 – 18:35	– Neuromuscular Scoliosis	

Preliminary Program

Saturday May 17, 2014

Time	Agenda Item	Lecturer
	At Hotel All Day	
07:00 – 08:00	Breakfast	
08:00 – 09:00	Congenital Scoliosis	Emans Ouellet Samdani
09:00 – 09:40	Mesenchymal Scoliosis	Lewis Ouellet Samdani
09:40 – 10:00	Coffee Break	
10:00 – 12:00	Hot Topic In Pediatric Spine Deformity	All Faculty

Preliminary program subject to modification.



Presentation Information

Faculty Disclosure

It is the policy of AO North America to abide by the Accreditation Council for Continuing Medical Education Standards for Commercial Support. Standard 2: "Disclosures Relevant to Potential Commercial Bias and Relevant Financial Relationships of Those with Control over CME Content", requires all planners, including course directors, chairs, and faculty, involved in the development of CME content to disclose their relevant financial relationships prior to participating in the activity. Relevant financial relationships will be disclosed to the activity audience. The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but to provide participants with information that might be of potential importance to their evaluation of a presentation.

Conflict of Interest Resolution Statement

When individuals in a position to control or influence the development of the content have reported Financial Relationships with one or more commercial interests, AO North America utilizes a process to identify and resolve potential conflicts to ensure that the content presented is free of commercial bias. The content of this presentation was vetted through AONA's process of peer review and content validation and modified as required to meet this standard.

Off-Label/Experimental Discussions

Some medical devices discussed or demonstrated in AO North America educational activities may not have been cleared by the FDA or may have been cleared by the FDA for specific uses only. AO North America requires the Faculty for this Course to disclose unlabeled uses of products. It is the Faculty's responsibility to disclose when an unlabeled use of a commercial product, or an investigational use not yet approved for any purpose, will be discussed during an education activity.

Liability Statement

AO North America, the Faculty and the Education committee members assume no personal liability for the techniques or the use of any equipment and accessories demonstrated. The certificate provided pertains only to the participants' completion of the Course and does not in any way attest to the proficiency of the participants' clinical expertise.

Disclaimer

AONA does not endorse nor promote the use of any product/service of commercial entities. The views and opinions of the presenting faculty are not necessary those of AONA.

Laboratory Waiver

To participate in this surgical skills course, you will be required to sign a waiver of liability prior to the course. In order to participate, AONA's policy mandates that every individual must wear appropriate protective garments provided by AONA during the lab sessions. Participants who do not sign the waiver and wear protective garments will not be allowed to participate in the laboratory sessions.

Human Anatomic Specimens

This course will involve exposure to and contact with human anatomic specimens. These specimens are being utilized for purposes of teaching and learning and are to be treated with the utmost respect. Participants should be familiar with and understand the potential risks involved and will be required to observe all customary safety procedures.



General Information

Registration Fees

Tuition — Attending: \$1000.00 (US funds)

Tuition Includes: Registration, laboratory materials, breakfasts, coffee breaks and lunch.

Registration Procedure

Registration is available online only at www.aona.org

We encourage early registration, as seating is limited. Upon receipt of your **online** registration and payment, you will be sent via email a confirmation of your registration in the course, along with hotel and travel information to assist you in making your arrangements. Participants who register after the course is full will be placed on a wait list and contacted if space becomes available.

Refund Policy

PLEASE NOTE: Registration deadline is April 16, 2014.

Full refunds will be made only if written notice of cancellation is received by registration deadline date. Cancellations received after the deadline date will be subject to a 10% cancellation fee. No tuition refund will be issued for cancellations after the start date of the course.

ADA Statement

AO North America fully intends to comply with the legal requirements of the Americans with Disabilities Act. If any registrant is in need of accommodation, please do not hesitate to submit a written request at least one month prior to this activity.

Until an email confirmation is received, please do not consider yourself registered in this Course.

For Information:

Contact AONA Customer Service Department

Phone: (800) 769-1391

(610) 695-2459

Fax: (610) 695-2420

Email: customerservice@aona.org

Hotel and Travel

Hotel Accommodations

The program, related activities, and accommodations will be held at:

Embassy Suites Tampa–Downtown Convention Center

513 South Florida Avenue
Tampa, Florida 33602
800-362-2779 or 813-769-8322

Hotel Concessions:

- Complimentary guestroom Internet service
- Complimentary local and toll phone use in guest rooms
- Complimentary use of hotel fitness center for registered guests
- Reduced valet parking from \$22.00 to \$16.00 per car

Room rate

\$139.00 single/double occupancy rooms will be held until April 16, 2014, or until room block is filled, whichever comes first. After this date, rooms will be on an as-available basis.

Reservations procedure – book by April 16, 2014

To make your hotel reservation, please call the Embassy Suites Tampa–Downtown Convention Center 800-362-2779 and ask to book a room for the “AONorth America Course”

Deadline: It is strongly recommended that participants book their hotel rooms as soon as possible, as space will fill rapidly. Reservations at the group rate may not be available after April 16, 2014.

Bioskill Lab

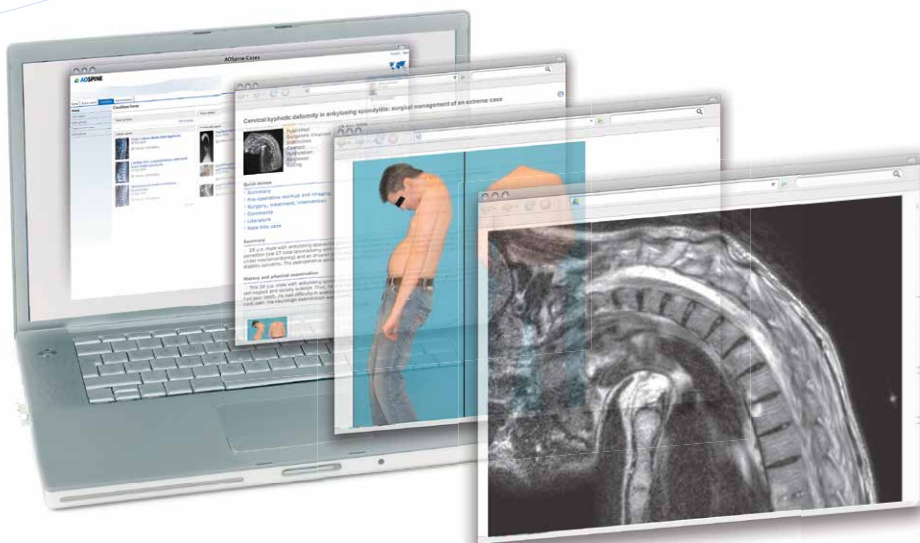
Center for Advanced Medical Learning and Simulation (CAMLs)
124 South Franklin St.
Tampa, FL
813-224-7840

Travel

For assistance with travel to and from Tampa, you are invited to contact AAA Travel (800-259-4023). The Embassy Suites Tampa-Downtown Convention Center is 7 miles or 10 minutes from the Tampa International Airport. Taxis and shuttles are available.

Please visit our website: www.aona.org to register
and for other course offerings.

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clinical case studies through
just one mouse click?



AOSpine offers subscribed members CaseBase, a collaborative knowledge platform to compare and comment on all aspects of spinal cases, plus many other membership benefits and discounts!

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inspiring lifelong learning and improving patients' lives.



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Complex Pediatric Spine Surgery
A Hands-on Bioskills Course

AO North America
1700 Russell Road
Paoli, PA 19301

Registration is available only online: www.aona.org

Registration Deadline: April 16, 2014