

SEATTLE SCIENCE FOUNDATION Current Depth 13 mr aining Depth 27 mm

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SATURDAY, DECEMBER 3

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Seattle Science Foundation 550 17th Avenue Probe Straight Pos.1 James Tower, Suite 600 Seattle, Washington 98122



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S E A T T L E S C I E N C E FOUNDATION

COURSE DESCRIPTION

The 1st Annual Spinal Navigation, Emerging Technologies and Systems Integration Course is an advanced training course held for neurosurgeons and orthopaedic surgeons who treat spinal conditions. Nationally recognized speakers will focus on provocative topics and in-depth debates regarding spinal navigation and robotics application in spine surgery. They will also provide hands-on workshops in state-of-the-art lab facilities. The design is to gain knowledge and experience of the new modalities in spine surgery, addressing both the guidelines and controversies of the field, as well as attaining hands-on exposure and training in the cadaver lab.

NEEDS STATEMENT

As spine surgery and associated technology continues to rapidly advance, methods of improving patient outcomes through surgical interventions and perioperative imaging modalities remain controversial. Due to the vast new technologies available, there remains a tremendous need for continued education in the training of current and future spinal surgeons regarding knowledge and surgical application in the field. By educating providers in the field, the 1st Annual Spinal Navigation, Emerging Technologies and Systems Integration Course will provide didactic lectures and hands-on surgical training led by national experts, with the focus on improvement in patient care, as well as surgical outcomes, with the use of spinal navigation and robotics.

INTENDED AUDIENCE

The 1st Annual Spinal Navigation, Emerging Technologies and Systems Integration Course is intended for neurosurgeons, orthopaedic surgeons, and allied healthcare professionals who treat surgical spinal conditions.

CME INFORMATION

Accreditation with Commendation

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of Swedish Medical Center and the Seattle Science Foundation. Swedish Medical Center is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™

Swedish Medical Center designates this live activity for a maximum of 8 AMA PRA Category 1 Credits[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

ACKNOWLEDGMENTS

This symposium is financially supported in part by educational grants in accordance with ACCME's Standards for Commercial Support. At the time of this printing, a complete listing of commercial supporters was not available. Appropriate acknowledgment will be given to all supporters at the time of the symposium.

FEATURED FACULTY

Nicholas Boulis, M.D. Emory University

Ken Catchpole, Ph.D. Medical University of South Carolina

Jens Chapman, M.D. Swedish Neuroscience Institute

Doniel Drazin, M.D. Swedish Neuroscience Institute

Charles Fisher, M.D., MHSc University of British Columbia and Vancouver General Hospital

Roger Härtl, M.D. Weill Cornell Brain & Spine Center

J. Patrick Johnson, M.D. Cedars-Sinai Medical Center

Terrence Kim, M.D. Cedars-Sinai Medical Center

Virginie Lafage, Ph.D. Surgimap

Ilya Laufer, M.D. Memorial Sloan Kettering Cancer Center

Isador Lieberman, M.D., M.B.A. Texas Back Institute

Prof. Dr. Bernhard Meyer Technical University of Munich

Rod J. Oskouian, Jr., M.D. Swedish Neuroscience Institute

Tiffany Perry, M.D. Cedars-Sinai Medical Center

David W. Polly, Jr., M.D. University of Minnesota

Rajiv Sethi, M.D. Virginia Mason Medical Center

Kris Siemionow, M.D. University of Illinois

David Simon Medtronic ST Neurosurgery

R. Shane Tubbs, Ph.D., PA-C Seattle Science Foundation

Michael Wang, M.D. University of Miami

AGENDA

PART 3: SYSTEMS INTEGRATION

7:30 a.m.	Breakfast & Registration	12:50 p.m.	Human Factors and Systems Integration in	
7:45 a.m.	What is the Seattle Science Foundation? Rod J. Oskouian, Jr., M.D.	Spine Surgery Ken Catchpole, Ph.D.		
7:55 a.m.	Welcome, Introductions, Course Overview and Survey J. Patrick Johnson, M.D. & Doniel Drazin, M.D.	1:05 p.m.	Learning Curves in Image Guided Spinal Surgery: A Human Factors Analysis Showing Surgeon Expertise Decreases Flow Disrup- tions Doniel Drazin, M.D.	
PART 1: IMAGE GUIDED SPINE SURGERY		1:20 p.m.	Principles of LEAN and the Toyota Production	
8:10 a.m.	Cost Effectiveness of Navigation Charles Fisher, M.D., MHSc		Rajiv Sethi, M.D.	
8:25 a.m.	Accuracy and Learning Curves with Navigation Bernhard Meyer, M.D., Ph.D.	PART 4: THINK TANK		
		1:30 p.m.	Introduction: Think Tank	
8:40 a.m.	Radiation Exposure in Image-Guided Spine		Doniel Drazin, M.D.	
	Surgery Jens Chapman, M.D.	1:35 p.m.	Establishment of Databases for Navigation/ Emerging Technology Research-Related	
8:55 a.m.	Are Indications Needed or Just Navigate Everything? J. Patrick Johnson, M.D.		Purposes Doniel Drazin, M.D.	
9:10 a.m.	Navigating the Cervical Spine: Considerations of the Anatomy	1:45 p.m.	Industry Issues with Emerging Technologies David Simon	
	R. Shane Tubbs, Ph.D., PA-C	1:55 p.m.	When and How Should Spine Surgeons	
9:25 a.m.	MIS and Navigation: Pros and Cons Roger Härtl, M.D.		Embrace Emerging Technologies Michael Wang, M.D.	
9:40 a.m.	Navigation in Spinal Deformity: Pearls David Polly, M.D	2:05 p.m.	Results of Navigation Survey: Steps Toward the Future Torropool Kim, M.D.	
9:55 a.m.	Spine Trauma Navigation: Key Concepts Terrence Kim, M.D.	2:15 p.m.	Break, Exhibits and Change for Lab	
10:10 a.m.	Navigation in Spine Tumor Surgery Ilya Laufer, M.D	DADT 5. UAND		
10:25 a.m.	Lumbar Plexus Visualization and the Lateral Approach Rod Oskouian Jr., M.D.	2:30 p.m. Hands-on BioSkills Lab Rotations (15 minute rotations)		
10:35 a.m.	Break & Exhibits		Station 1: Lateral and Deformity Pearls	
DART 2. EMERG			Station 2: Cervical Spine Pearls	
10:45 a.m.	45 a.m. Mazor Robotics and the SpineAssist		Station 3: Minimally Invasive, Percutaneous, PSIS Pin	
	Isador Lieberman, M.D., M.B.A.		Station 4: Lumbar Deformity and Sacral	
II a.m.	O-Arm 2.0 David Simon		Station 5: Bobotics - Mazor	
11:15 a.m.	Integrated Global Alignment (iGA) Platform (NuvaMap OR and Bendini) Rajiv Sethi, M.D.		Station 6: Laminectomy, Facetectomy, Osteostomies Made Easy	
11:30 a.m.	SurgiMap Virginie Lafage, Ph.D.		Station 7: Synaptive Experience	
11:45 a.m.	Augmented Reality in Spine Surgery, Current Status and Future Directions Kris Siemionow, M.D.		Station 8: VITOM Experience	
			Station 9: Mini-Mobile Navigation Unit	
11:55 p.m.	Break & Pick-Up Lunch	5 p.m.	Course Wrap-Up & Feedback	
12:10 p.m.	Novel Stem Cell Therapies in the Spine (Working Lunch) Nicholas Boulis, M.D.	5:15 p.m.	All Faculty Adjourn	



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REGISTRATION INFORMATION:

Pre-registration is required as space is limited. The discounted "Advanced Registration" deadline is November 21, 2016. Registrations will only be processed and confirmed when accompanied by full payment.

If using the registration form, please mail or fax it to:

Seattle Science Foundation 550 17th Avenue, James Tower, Suite 600 Seattle, WA 98122 Fax: (206) 732-6599

Cancellation: To receive a refund, notice of cancellation must be received no later than November 28, 2016.

If you have special needs, please contact us at (206) 732-6500.

REGISTER ONLINE

seattlesciencefoundation.org



This program is endorsed by:

REGISTRATION FORM

FIRST ANNUAL SPINAL NAVIGATION, EMERGING TECHNOLOGIES & SYSTEMS INTEGRATION

Saturday, December 3, 2016

NAME	TITLE/CREDENTIALS		
ADDRESS			
CITY/STATE/ZIP			
PHONE	FAX		
EMAIL			
SPECIALTY			
Registration Fees	Advanced Registration	After November 21	
M.D. or D.O. Allied Health Professionals	\$280 \$180	\$310 \$210	
Resident/Fellow	\$50 \$50	\$50 \$50	

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