

# The 2nd CSRS

(Cervical Spine Research Society)

## Hands-On Cadaver Course

### *Cervical Spine Decompression and Stabilization Techniques*

Course Directors: K. Daniel Riew, MD, and Robert F. Heary, MD

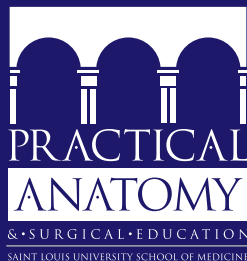


January 29–31, 2009

ST. LOUIS, MO



SAINT LOUIS  
UNIVERSITY



# SCHEDULE and L

## Schedule and Lectures

### Learning Objectives

The emphasis of this workshop is on surgical microanatomy and microdissection of the cervical spine. It will enhance the 3-D anatomical knowledge of participants and sharpen their surgical skills of cervical decompression and stabilization techniques through discussion and/or repeat demonstrations of:

- the intricate anatomy of the unciniate process, nerve roots, the vertebral artery and foramen
- the relationship of the above to each other
- anterior and posterior surgical approaches to the cervical spine
- posterior decompression techniques including laminotomy, foraminotomy, laminoplasty, laminectomy, and facetectomy
- fusion techniques including occipital-cervical constructs, C1-2 transarticular fixation, subaxial wire and plating constructs
- anterior decompression techniques including discectomy, foraminotomy, corpectomy
- anterior fusion techniques including Smith-Robinson and strut grafting as well as subaxial plate, odontoid fixation and cages
- transoral approach to dens resection

*Due to federal regulations, participants are not allowed to place products into the cervical spine that are not FDA approved.*

### Schedule

#### Thursday, January 29, 2009

- 5:00 P.M. Registration and Light Dinner (pick up boxed dinner in Dining Room)
- 5:45 P.M. Introduction and Welcome
- 6:00 P.M. **Vertebral Artery Injuries from the Anterior Spine: How to Prevent, Expose and Treat**
- 6:15 P.M. **Anterior Cervical Approach to C<sup>2-4</sup> & C<sup>7</sup>-T<sup>3</sup>**
- 6:30 P.M. **Anterior Cervical Plating: Tips, Pearls, Avoiding ALOD, Length of Screws, Different Plate Types**
- 6:45 P.M. **Pseudarthrosis Dx and Repair (L): Radiographic DX, Advantages/Disadvantages of Treating Anterior vs Posterior**
- 7:00 P.M. Questions and Answers
- 7:20 P.M. **Post-op Hematoma Management & Emergency Cricothyroidotomy: How to Avoid and Treat**
- 7:35 P.M. **Dysphagia and Dysphonia**
- 7:50 P.M. **Dural Tear**
- 8:05 P.M. Questions and Answers
- 8:25 P.M. Adjourn

#### Friday, January 30, 2009

- 7:10 A.M. Sign-In and Continental Breakfast
- 7:45 A.M. Introduction
- 8:00 A.M. **3D Demonstration: Anterior Cervical Decompression, Foraminotomy, Discectomy, Exposure of Vertebral Artery**
- 8:45 A.M. **Transoral Resection of Dens**
- 9:05 A.M. Questions and Answers



- 9:25 A.M. Break and Exhibits
- 9:45 A.M. **How To Use The Microscope In The Lab**
- 10:00 A.M. **Hands-On Cadaver Lab Session: ACDF, Foraminotomy, Uncinate Resection, Exposure of the Vertebral Artery, Dissection of Hypoglossal, Glossopharyngeal, Recurrent Laryngeal, Superior Laryngeal Nerves, Digastric Muscle, Cricothyroidotomy Transoral Resection, Fusion, Arthroplasty**
- 12:00 P.M. Lunch and Exhibits
- 12:40 P.M. **Bone Graft Options: Allograft, Autograft, Cages**
- 12:50 P.M. **Arthroplasty: Indications vs Fusion, results, currently available products**
- 1:00 P.M. Questions and Answers
- 1:15 P.M. **Lateral Mass Screw Fixation**
- 1:25 P.M. **Pedicle Screw Fixation C<sup>7</sup>-T<sup>3</sup>**
- 1:35 P.M. Questions and Answers
- 1:45 P.M. Break and Exhibits
- 2:00 P.M. **Hands-On Cadaver Lab Session: ACDF, Foraminotomy, Uncinate Resection, Exposure of the Vertebral Artery, Dissection of Hypoglossal, Glossopharyngeal, Recurrent Laryngeal, Superior Laryngeal Nerves, Digastric Muscle, Cricothyroidotomy, Transoral Resection, Fusion, Arthroplasty**
- 4:30 P.M. Adjourn
- 5:30 P.M. Special Event Reception

## **Saturday, January 31, 2009**

- 7:45 A.M. Sign-In and Continental Breakfast
- 8:15 A.M. Introduction
- 8:25 A.M. **3D Demonstration: Laminaplasty, foraminotomy**
- 9:05 A.M. **Minimally Invasive Foraminotomy: Positioning, How to Place Tubes, Tricks and Pearls**
- 9:15 A.M. **C<sup>1</sup> Lateral Mass and C<sup>2</sup> Fixation Using Freehand Technique Without C-Arm**
- 9:30 A.M. Questions and Answers
- 10:00 A.M. Break and Exhibits
- 10:15 A.M. **Hands-On Cadaver Lab Session: Laminaplasty, Foraminotomy, C<sup>1</sup> Lateral Mass, C<sup>2</sup> Fixation, C<sup>3-7</sup> Lateral Mass Screws, C<sup>7</sup>-T<sup>3</sup> Pedicle Screws**
- 12:00 P.M. Lunch and Exhibits
- 12:45 P.M. **Hands-On Cadaver Lab Session: Laminaplasty, Foraminotomy, C<sup>1</sup> Lateral Mass, C<sup>2</sup> Fixation, C<sup>3-7</sup> Lateral Mass Screws, C<sup>7</sup>-T<sup>3</sup> Pedicle Screws (continued)**
- 3:00 P.M. **Adjourn Supervised Lab Dissection: Optional Lab time for participants**
- 4:30 P.M. Adjourn

Early Registration is recommended; space is limited.  
For information about upcoming workshops, visit our web site at

**<http://pa.slu.edu>**

# FACULTY

## Faculty

### Course Directors

*K. Daniel Riew, MD*

Mildred B. Simon Distinguished Professor of Orthopaedic Surgery  
Department of Orthopaedic Surgery  
Professor of Neurological Surgery  
Washington University School of Medicine, St. Louis, Missouri

*Robert F. Heary, MD*

Professor  
Department of Neurosurgery  
UMDNJ-New Jersey Medical School  
Director, Spine Center of New Jersey, Newark, New Jersey

### Invited Faculty

*Dirk H. Alander, MD*

Associate Professor, Department of Orthopaedic Surgery  
Saint Louis University School of Medicine, St. Louis, Missouri

*Ronald I. Apfelbaum, MD*

Professor and Spine Fellowship Director, Department of Neurosurgery  
University of Utah, Salt Lake City, Utah

*Paul M. Arnold, MD, FACS*

Associate Professor, Department of Neurosurgery  
The University of Kansas, Kansas City, Kansas

*Edward C. Benzel, MD*

Department of Neurosurgery  
The Cleveland Clinic Foundation, Cleveland, Ohio

*Jacob M. Buchowski, MD, MS*

Assistant Professor of Orthopaedic and Neurological Surgery  
Chief, Degenerative and Minimally Invasive Spine Surgery  
Department of Orthopaedic Surgery  
Washington University School of Medicine, St. Louis, Missouri

*Frank J. Eismont, MD*

Professor & Chairman, The Department of Orthopaedics  
The University of Miami Miller School of Medicine, Miami, Florida

*Timothy A. Garvey, MD*

Twin Cities Spine Center, Associate Professor  
University of Minnesota, Minneapolis, Minnesota

*Regis W. Haid, Jr., MD*

Atlanta Brain & Spine Care, Medical Director  
Piedmont Spine Center, Atlanta, Georgia

*Robert A. Hart, MD*

Associate Professor, Oregon Health & Science University  
Center for Health & Healing, Portland, Oregon

*Langston T. Holly, MD*

Assistant Professor, UCLA Division of Neurosurgery  
Los Angeles, California

*Howard M. Place, MD*

Professor, Department of Orthopaedic Surgery  
Saint Louis University School of Medicine, St. Louis, Missouri

*John M. Rhee, MD*

Assistant Professor, Department of Orthopaedic Surgery  
Emory University School of Medicine, Atlanta, Georgia

*Paul Santiago, MD*

Assistant Professor of Neurological and Orthopaedic Surgery  
Washington University School of Medicine, St. Louis, Missouri

*Todd J. Stewart, MD*

Assistant Professor, Department of Neurological Surgery  
Washington University School of Medicine, St. Louis, Missouri

*Vincent C. Traynelis, MD*

Professor, Department of Neurosurgery  
The University of Iowa, Iowa City, Iowa

*Jeffrey Wang, MD*

UCLA School of Medicine,  
Department of Orthopaedic Surgery, Santa Monica, California

*Paul H. Young, MD*

Clinical Professor of Surgery, Division of Neurosurgery  
Center for Anatomical Science & Education  
Saint Louis University School of Medicine, St. Louis, Missouri

Faculty subject to last minute changes

## The 2nd CSRS Hands-On Cadaver Course Cervical Spine Decompression and Stabilization Techniques

PLEASE PRINT CLEARLY

Name \_\_\_\_\_

Degree \_\_\_\_\_ Specialty \_\_\_\_\_

Mailing Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Postal Code \_\_\_\_\_ Country \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

E-mail \_\_\_\_\_ D.O.B. \_\_\_\_\_

All confirmations will be sent via email. Please print legibly. CME Tracking Requirement Course #P012909

### Tuition Fees

\$2,075 Physician Fee

\$1,095 Fellows/Residents/USA Military Fee  
(Letter of Verification required)

### Special Needs

Please indicate any special needs (i.e. dietary, etc.) \_\_\_\_\_

\_\_\_\_\_

### Method of Payment

Check enclosed made payable to Saint Louis University

Charge  Visa  Mastercard  American Express  Discover

Account Number \_\_\_\_\_

Cardholder's Name \_\_\_\_\_

Cardholder's Address \_\_\_\_\_

City \_\_\_\_\_

State \_\_\_\_\_ Postal Code \_\_\_\_\_

Signature \_\_\_\_\_

#### Mail or fax completed registration to:

Practical Anatomy & Surgical Education, Attn: Course Coordinator, 3839 Lindell Blvd., St. Louis, MO 63108 USA  
**Phone:** (314) 977-7400 **Fax:** (314) 977-7345 **E-mail:** pa@slu.edu **Web site:** http://pa.slu.edu

# Practical Anatomy & Surgical Education

## Mission Statement

Practical Anatomy & Surgical Education, of the Center for Anatomical Science and Education, Saint Louis University School of Medicine, is dedicated to the development and presentation of innovative medical health and science workshops. Practical Anatomy strives to promote the concept of lifelong learning by utilizing the latest technology to connect young people, residents, health care professionals and surgeons, to world-class experts and faculty.



## Continuing Education

### Faculty Disclosure Policy

It is the policy of Saint Louis University School of Medicine to insure balance, independence, objectivity and scientific rigor in its continuing medical education program. Faculty participating in these activities are required to disclose to the audiences prior to the activity the following: (1) The existence of any significant financial or other relationship with the manufacturer of any commercial product or provider of any commercial service discussed. (2) Their intention to discuss a product that is not labeled for the use under discussion. (3) Their intention to discuss preliminary research data.

### Validation of Content

Saint Louis University School of Medicine follows the ACCME policy of Validation of Content for CME activities which requires that

- All recommendations involving clinical medicine must be based on evidence that is accepted within the profession of medicine as adequate justification for their indication and contraindications in the care of patients.
- All scientific research referred to, reported or used in CME in support or justification of a patient care recommendation must conform to the generally accepted standards of experimental design, data collection and analysis.

Saint Louis University School of Medicine will review this activity's disclosures and resolve all identified conflicts of interest, if applicable.

### Continuing Education

Saint Louis University School of Medicine designates this educational activity for a maximum of *15.75 AMA PRA Category 1 Credit(s)<sup>TM</sup>*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

This course has been designated as Level 1 (Verification of Attendance) of the AMA's Credit Designation for New Procedures and Skills. Completion of this course does not certify the participant in their proficiency of the skills.

The American Medical Association has determined that physicians not licensed in the US who participate in this CME activity are *eligible for AMA PRA Category 1 Credit(s)<sup>TM</sup>*.

### Accreditation

Saint Louis University School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

# General Information



## Workshop Location

This workshop is sponsored by Practical Anatomy & Surgical Education, of the Center for Anatomical Science and Education, Saint Louis University School of Medicine.

The workshop is located at the PASE Learning Center, 3839 Lindell Boulevard, St. Louis, Missouri 63108-3413

## Cancellation Policy

Cancellations received three weeks prior to the course will be refunded, less a 10 percent processing fee. The conference is not responsible for travel expenses incurred. In the event the conference is cancelled, the tuition fee and flight transfer fee (original receipt required) are reimbursable.

## Please Note

If you have not received confirmation of registration prior to your departure, contact Practical Anatomy. Registration cannot be processed until full payment is received. Practical Anatomy is not responsible for expenses incurred by individuals who are not confirmed and paid-in-full.

## Accommodations

For the convenience of our attendees, a block of discounted rooms has been set aside at the following hotels. Shuttle transportation will be provided between the hotel and workshop site each day.

### *Chase Park Plaza \$155 – One Bedroom Suite*

212 N. Kingshighway, St. Louis, MO 63108

Phone: (877) 587-2427 Fax (314) 633-3003

Web site: <http://www.chaseparkplaza.com>

### *Water Tower Inn at Saint Louis University – \$75*

3545 Lafayette Ave., St. Louis, MO 63104

Phone: (314) 977-7500 Fax: (314) 977-7505

Web site: <http://www.slu.edu/events/wti.html>

Mention Practical Anatomy for a reduced room rate.

For information on alternative hotels, contact the course coordinator. Make reservations directly with the hotel. Room reservations are NOT made through the Practical Anatomy office. Do not make airline reservations until you have received written confirmation of placement in the workshop.

## Event Reception

A social event is planned for Friday, January 30, 2009. Participants are welcome to enjoy this event at no additional cost. If you wish to bring a guest, there will be an additional charge. Transportation will be provided from the conference hotels.

For information about upcoming workshops, visit our web site at <http://pa.slu.edu>



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**PRACTICAL ANATOMY & SURGICAL EDUCATION**  
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St. Louis, MO 63108-3413

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