Practical Anatomy & Surgical Education and 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.

4th Annual Saint Louis University Department of Neurosurgery
Combined Ventricular and Skull Base Endoscopy Course for Neurosurgeons:
Hands-on Cadaver Course

Course Director:
Samer K. Elbabaa, MD, FAANS, FACS
Honored Guest:
Charlie Teo, MBBS, FRACS

in Collaboration with IFNE
(International Federation of Neuroendoscopy)

http://pa.slu.edu
Thursday, September 15, 2016 (7:00 am - 5:30 pm)

**Ventricular Anatomy and Basic Intra-Ventricular Procedures**
- 3D Ventricular Anatomy: Craniometric Points, Endoscopic Approaches and Correlating White Matter Fiber Tractography
- Basics of Neuro-Endoscopy: Equipment and Surgical Planning
- Endoscopic Third Ventriculostomy (ETV): Technique, Indications and Outcomes
- Endoscopic Management of Complex Hydrocephalus
- Endoscopic Choroid Plexus Coagulation

**Intra-Ventricular Tumors**
- HONORED GUEST LECTURE: Endoscopic Management of Intra-Ventricular Tumors
- Overview of Cadaveric Intra-Ventricular and Skull Base Tumor Models
- HONORED GUEST LECTURE: Endoscopic Management of Collodi Cyts

Advanced Intra-Ventricular and Craniofacial Procedures
- Endoscope-Assisted Craniofacial Correction of Craniosynostosis
- HONORED GUEST LECTURE: Complication Avoidance during Intraventricular Endoscopy
- Exoscopic Transcalvarial Subbottorial Parafascicular Surgery for Intracerebral Hemorrhage
- Contact Neuroendoscopy and Tactography in Gamma Surgery: a Multimodal Approach
- Open Discussion of Endoscopic Ventricular Endoscopy Cases

Endoscopic Approaches to the Skull Base (Part I)
- Basic Endoscopic Sinus and Skull Base Anatomy
- Standard Versus Expanded Endonasal Trans-Sphenoidal Approaches: Technique and Indications
- Endoscopic Management of Esthesioneuroblastomas
- Podium Cadaveric Dissection: -Standard Endonasal Trans-Sphenoidal Approach to the Sella -Expanded Endonasal Trans-Sphenoidal Approach to the Sella and Parasellar Lesions
- Hands-On Laboratory: Standard and Expanded Endonasal Trans-Sphenoidal Approaches to the Sella

Friday, September 16, 2016 (7:00 am - 6:00 pm)

Endoscopic Approaches to the Skull Base (Part I)
- Endoscopic Endosalvage Surgery for Pituitary Tumors
- Microsurgery for Ventricular and Suprasellar Tumors
- Endoscopic Approaches/Outcomes to Anterior Skull Base Meningiomas
- Endoscopic Nasoseptal Flap Reconstruction of the Skull Base
- Endoscopic Repair of CSF Leak
- Podium Cadaveric Demonstration and Hands-On Laboratory: -Expanded Endonasal Trans-Sphenoidal Approach to the Sella and Parasellar Lesions -Endoscopic Approaches to the Anterior Skull Base -Endoscopic Nasoseptal Flap Reconstruction and CSF Leak Repair
- Supra-Orbital Keyhole Cranietomy for Suprasellar and Vascular Lesions
- Endoscopic/Endoscope-Assisted Microsurgery for Craniopharyngiomas
- Endoscope-Assisted Microsurgery for Vascular Lesions
- Hands-On Laboratory: -Expanded Endonasal Trans-Sphenoidal Approach to the Sella and Parasellar Lesions -Endoscopic Approaches to the Anterior Skull Base -Endoscopic Nasoseptal Flap Reconstruction and CSF Leak Repair -Supraorbital Keyhole Cranietomy
- Open Discussion of Endoscopic Skull Base Cases

Saturday, September 17, 2016 (7:30 am - 5:30 pm)

Endoscopic Approaches to the Skull Base (Part II)
- Complication Avoidance During Endoscopic Sellar and Suprasellar Tumor Surgery
- Endoscopic Trans-Orbital Approach
- Endoscopic Approach to the Middle & Infra-Temporal Fossa
- Podium Cadaveric Dissection: -Endoscopic Trans-Orbital Approach -Endoscopic Approach to the Middle & Infra-Temporal Fossa
- Endoscopic Key Hole Approach to The CP Angle and Posterior Fossa
- Endoscopic Approaches to the Clivus and Crico-Cervical Junction

Sunday, September 18, 2016 (7:00 am - 4:00 pm)

**Endoscopic Approaches to the Skull Base (Part II)**
- Expand Endoscopic Key Hole Approach to The Anterior and Posterior skull base
- Endoscopic Approaches to the Parasellar lesions
- Endoscopic Approaches to the Middle and Infra Temporal Fossa
- Podium Cadaveric Dissection: -Endoscopic Key Hole Approach to The Anterior and Posterior skull base
- Hands-On Laboratory: -Endoscopic Key Hole Approach to The Posterior Fossa -Endoscopic Trans-Orbital Approach -Endoscopic Approaches the Clivus and Crico-Cervical Junction -Endoscopic Approach to the Middle & Infra-Temporal Fossa

**Podium Cadaveric Demonstration and Hands-On Laboratory:**
- Endoscopic Biopsy/Resection of Intra-Ventricular Tumors
- Endoscopic Excision of Collodi Cyts: Approach to the Third Ventricle
- Use of Stereotactic Navigation during Endoscopic Ventricular Surgery
- Cadaveric Intra-Ventricular Tumor Model

**Educational Objectives**
- This workshop has been designed to provide the neurosurgeons the opportunity to enhance their own skills in a variety of endoscopic approaches to the ventricles and skull base. The participants will:
  - Review and perform endoscopic surgical approaches to the lateral ventricles, perform endoscopic third ventriculostomy, perform endoscopic placement of shunt, perform endoscopic septum fenestration and remove intraventricular tumors.
  - Review and perform endoscopic surgical approaches to the anterior, lateral and posterior skull base on cadaveric specimens
  - Learn and discuss the indications and differences between standard microsurgical and endoscopic approaches.
  - Discuss the surgical techniques and complexity of the various surgical approaches reviewed, viewing surgical videos and interacting with the world renowned experts in the field.
  - Discuss complication avoidance and management

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

**Continuing Education**
- Saint Louis University School of Medicine designates this live activity for a maximum of 29.5 AMA PRA Category 1 Credits ™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Registration Details & Course Fees**
- Physicians: ................................................. $1895
- Residents/fellows/USA military: ................. $1195

For further course details and registration go to:

http://pa.slu.edu

This workshop will be held at the PAE Learning Center located in Young Hall, 3839 Lindell Boulevard, Saint Louis, MO 63108