

PENN International Rhinology and Skull Base Course

March 6-8, 2014

PENN Rhinoplasty Course

March 8-9, 2014

Smilow Center for Translational Research
Philadelphia, PA



PENN International Rhinology and Skull Base Course

COURSE DIRECTORS

Nithin D. Adappa, MD
Noam A. Cohen, MD, PhD
M. Sean Grady, MD
David W. Kennedy, MD
John Y. K. Lee, MD
Jason G. Newman, MD
Bert W. O'Malley, Jr., MD
James N. Palmer, MD



PENN DISTINGUISHED SKULL BASE PROFESSORSHIP

Ricardo Carrau, MD
Marvin Bergsneider, MD

GUEST FACULTY

Robert Adelson, MD
Rakesh Chandra, MD
David B. Conley, MD
Richard Harvey, MD
Vijay Ramakrishnan, MD
Raymond Sacks, MD
Rodney J. Schlosser, MD
Jeffrey Suh, MD
Kevin C. Welch, MD
Bradford Woodworth, MD

PENN Rhinoplasty Course

COURSE DIRECTOR

Oren Friedman, MD

COURSE CO-DIRECTORS

Ara A. Chalian, MD
Daniel G. Becker, MD

COURSE FACULTY

Robert Adelson, MD
Paul Carniol, MD
Fred G. Fedok, MD
Timothy Greco, MD
Grant Hamilton, MD
Howard Krein, MD, PhD
Tom D. Wang, MD

PENN International Rhinology and Skull Base Course

Course Directors

Nithin D. Adappa, MD

Assistant Professor
Department of Otorhinolaryngology -
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

Noam A. Cohen, MD, PhD

Associate Professor
Director, Rhinology Research Laboratory
Department of Otorhinolaryngology -
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania and
Philadelphia Veterans Affairs Medical Center

M. Sean Grady, MD

Charles Harrison Frazier Professor and Chair
Department of Neurosurgery
Perelman School of Medicine at the
University of Pennsylvania

David W. Kennedy, MD

Rhinology Professor
Department of Otorhinolaryngology -
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

John Y.K. Lee, MD

Assistant Professor
Department of Neurosurgery
Perelman School of Medicine at the
University of Pennsylvania

Jason G. Newman, MD

Assistant Professor
Department of Otorhinolaryngology -
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

Bert W. O'Malley, Jr., MD

Gabriel Tucker Professor and Chair
Department of Otorhinolaryngology -
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

James N. Palmer, MD

Associate Professor
Director, Division of Rhinology
Department of Otorhinolaryngology -
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

Penn Distinguished Skull Base Professorship

Ricardo Carrau, MD

Professor of Otolaryngology-
Head & Neck Surgery
The Ohio State University Medical College
Columbus, OH

Marvin Bergsneider, MD

Professor In Residence
Department of Neurosurgery
UCLA School of Medicine
Los Angeles, CA

Distinguished Visiting Faculty

Robert Adelson, MD

Albany ENT and Allergy, Albany, NY

Rakesh Chandra, MD

Associate Professor
Department of Otolaryngology -
Head and Neck Surgery
Northwestern University
Feinberg School of Medicine, Chicago, IL

David B. Conley, MD

Associate Professor
Department of Otolaryngology -
Head and Neck Surgery
Northwestern University
Feinberg School of Medicine, Chicago, IL

Gregg Goldstein, MD

Christiana Care Hospital, Wilmington, DE

Satish Govindaraj, MD

Assistant Professor
Department of Otolaryngology
Mount Sinai Medical Center, New York, NY

Richard Harvey, MD

Associate Professor
Macquarie University and
University of New South Wales
Sydney, Australia

Alexis H. Jackman, MD

Assistant Professor
Department of Otorhinolaryngology -
Head and Neck Surgery
Montefiore Medical Center
The University Hospital for Albert Einstein
College of Medicine, New York, NY

Ameet Kamat, MD

Clinical Instructor and Assistant Professor
Department of Otolaryngology -
Head and Neck Surgery
New York Medical College/
Westchester Medical Center, Ardsley, NY

Jivianne Lee, MD

Orange County Sinus Institute, SCPMG
Assistant Clinical Professor
Department of Head & Neck Surgery
UCLA School of Medicine, Irvine, CA

John Lee, MD

Assistant Professor
Department of Otolaryngology -
Head and Neck Surgery
University of Toronto, Canada

Jayakar Nayak, MD, PhD

Assistant Professor
Otolaryngology (Head and Neck Surgery)
Stanford University, Stanford, CA

Vijay Ramakrishnan, MD

Assistant Professor
Department of Otorhinolaryngology
University of Colorado, Aurora, CO

Jeremy T. Reed, MD

Chief of Rhinology
Carl R. Darnall Army Medical Center
Fort Hood, TX

Raymond Sacks, MD

Associate Professor
Macquarie University and University of Sydney
Sydney, Australia

Rodney J. Schlosser, MD

Professor
Department of Otorhinolaryngology -
Head and Neck Surgery
Medical University of South Carolina
Charleston, SC

Jeffrey Suh, MD

Assistant Professor
Department of Head and Neck Surgery
UCLA School of Medicine
Los Angeles, CA

Eugenia M. Vining, MD

Assistant Clinical Professor of Otolaryngology
Yale School of Medicine
New Haven, CT

Calvin Wei, MD

St. Luke's and Roosevelt Hospitals
New York, NY

Kevin C. Welch, MD

Associate Professor
Department of Otolaryngology -
Head and Neck Surgery
Loyola University Chicago
Stritch School of Medicine, Maywood, IL

Bradford Woodworth, MD

James J. Hicks Associate Professor of Surgery
Division of Otorhinolaryngology,
Head and Neck Surgery
University of Alabama at Birmingham
Birmingham, AL

PENN Course Faculty

Perelman School of Medicine at the University
of Pennsylvania (unless otherwise noted)

Samuel Becker, MD

Director of Rhinology
Becker Nose and Sinus Center, LLC

Raewyn Campbell, MD

Rhinology Fellow
Department of Otorhinolaryngology -
Head and Neck Surgery

Dana Crosby, MD

Rhinology Fellow
Department of Otorhinolaryngology -
Head and Neck Surgery

David Henick MD

Chief, Department of Otolaryngology
Englewood Hospital & Medical Center, NJ

James Kearney, MD

Associate Professor
Department of Otorhinolaryngology -
Head and Neck Surgery

Kim O. Learned, MD

Assistant Professor, Department of Radiology

Laurie Loevner, MD

Professor of Radiology, Otorhinolaryngology -
Head and Neck Surgery and Neurosurgery

Christopher Rassekh, MD

Associate Professor
Department of Otorhinolaryngology -
Head and Neck Surgery

Mark D. Rizzi, MD

Assistant Professor
Department of Otorhinolaryngology -
Head and Neck Surgery

Michael B. Siegel, MD

Director, Siegel and Bosworth ENT Center
Rockville, MD

Phillip B. (Jay) Storm, MD

Associate Professor of Neurosurgery
Children's Hospital of Philadelphia

Lawrence W. C. Tom, MD

Associate Professor
Department of Otorhinolaryngology -
Head and Neck Surgery

Target Audience

This program is designed for otorhinolaryngologists, medical rhinologists, head and neck surgeons, neurosurgeons and other related health care professionals such as nurse practitioners and physician assistants.

Course Overview

This comprehensive three-day continuing medical education program in Rhinology and Skull Base features an outstanding national and international faculty. There will be specific emphasis on advanced endoscopic procedures as well as medical and surgical focus on the frontal sinus, emerging technologies, and endoscopic skull base surgery. Difficult cases, prevention, diagnosis and management of complications will be reviewed.

A special highlight of the program is the Distinguished Skull Base Professorship, featuring the lectures presented by Dr. Ricardo Carrau and Dr. Marvin Bergsneider.

Live surgical cases will be streamed live and participants will be able to interact with Drs. Kennedy and Palmer while they are operating. Demonstration cadaver dissections will be presented by distinguished guest faculty for endoscopic sinus and skull base procedures using powered instrumentation and stereotactic surgical navigation systems. The course also offers a cadaver dissection laboratory for hands-on experience with powered instrumentation, drills and image-guidance systems at every station

Objectives

Upon completion of the course participants should be able to:

LECTURES:

- Identify the anatomy of the paranasal sinuses and recognize indications for endoscopic surgery
- Discuss pathophysiology of chronic rhinosinusitis and medical treatment options
- Define advanced endoscopic approaches for management of chronic rhinosinusitis
- Formulate strategies and solutions to manage "difficult to manage sino-nasal disease"
- Review complications of sinus surgery and their proper management
- Describe endoscopic and open surgical techniques with focus on the frontal sinus
- Identify strategies to treat benign and malignant lesions of the skull base
- Apply endoscopic application for treatment of neurological disorders

LABORATORY:

- Describe proper endoscopic instrument handling and surgical techniques
- Perform routine nasal endoscopy for the diagnosis of sino-nasal disease
- Perform techniques involved in traditional and powered sphenoethmoidectomy
- Discuss intricacies of image-guided endoscopic sinus surgery
- Identify difficult and critical areas of paranasal sinuses
- Demonstrate various frontal sinus approaches and describe their technical implementation
- Perform techniques in endoscopic skull base surgery including clival, pituitary, anterior cranial fossa, and infratemporal fossa approaches

Accreditation

The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Designation of Credit

The Perelman School of Medicine at the University of Pennsylvania designates this live activity for a maximum of **25.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- **Lecture Only** 19.00 credits
- **Lecture & Single Lab (Friday PM)** 19.25 credits
- **Lecture & Double Lab (Saturday AM & PM)** 25.25 credits

Course Registration

It is strongly recommended that you register early for this program. Registration is limited due to seating capacity in the lecture hall and number of stations in the hands-on laboratory.

All registrations will be confirmed via email.

If you do not receive confirmation please email

Cathy.Lafferty@uphs.upenn.edu or phone 215-349-5382.

Early Registration Discount

The following registration rates apply to all registration payments received by **January 15, 2014**. After that date all fees increase by \$100.

Early Registration Fees

• LECTURE ONLY

All lectures, live surgery and demo-dissections (no hands-on lab)
\$900 Physicians, \$700 Residents

• LECTURE & SINGLE LAB (FRIDAY PM • BLUE GROUP)

1 Lab Session (Friday PM), lectures (excludes Skull Base lectures on Friday), live surgery and demo-dissections
\$1650 Physicians, \$1300 Residents

• LECTURE & DOUBLE LAB (SATURDAY AM & PM • RED GROUP)

2 Lab Sessions (Double Lab, Saturday AM & PM), all lectures, live surgery, and demo-dissections
\$2150 Physicians, \$1700 Residents

Course tuition fees include continental breakfast each day, lunches, refreshment breaks, course reception, all course and laboratory (if applicable) materials. Nurses, physician assistants, and other allied health care professionals may register at the Resident rate.

SPECIAL DISCOUNT FOR THOSE WHO REGISTER FOR BOTH THE PENN INTERNATIONAL RHINOLOGY AND SKULL BASE AND THE PENN RHINOPLASTY COURSES WITH LAB

See the registration form or online registration site for details. The PENN Rhinology & Skull Base Lecture Only and Lecture and Single Lab (Blue Group) schedules have been designed to accommodate those who wish to attend *BOTH* courses. However, on Saturday morning participants will choose to attend *EITHER* the Rhinology demonstration dissections *OR* the Rhinoplasty lectures, from 7:30-9:00 am.

Program Schedule

THURSDAY, MARCH 6, 2014

- 6:45-7:45am **Course Registration, Continental Breakfast and Exhibit Viewing**
Smilow Commons
- 7:45-8:00am **Welcome/Announcements**
Bert W. O'Malley, Jr., MD
David W. Kennedy, MD
James N. Palmer, MD
- 8:00-8:20am **Overview of Chronic Rhinosinusitis**
David W. Kennedy, MD
- 8:20-8:40am **What We Have Learned from Basic Science Research on CRS**
Noam A. Cohen, MD, PhD
- 8:40-9:10am **Basic Sinus Anatomy and Endoscopic Sinus Surgery**
Kevin C. Welch, MD
- 9:10-9:30am **Revision Surgery of the Maxillary, Ethmoid and Sphenoid Sinuses**
Jeffrey Suh, MD
- 9:30-10:00am **Shifting Paradigms of ESS from Ventilation to Access for Topical Therapy**
Richard Harvey, MD
- 10:00-10:30am **BREAK and Exhibit Viewing**
- 10:30-11:00am **Basic Chronic Rhinosinusitis Case Panel**
MODERATOR: Nithin D. Adappa, MD
PANELISTS: Noam A. Cohen, MD, PhD
Richard Harvey, MD
Alexis H. Jackman, MD
David W. Kennedy, MD
Jeremy T. Reed, MD
- 11:00-11:30am **Frontal Sinus Anatomy and Overview of Draf Classification of Frontal Sinus Procedures**
James N. Palmer, MD
- 11:30-12:00pm **Draf I, IIA and IIB**
Nithin D. Adappa, MD
- 12:00-1:00pm **LUNCH and Exhibit Viewing**
- 1:00-1:10 pm **Live Surgery Introductions: Pre-operative Preparation, Case Histories**
DISCUSSANTS: Nithin D. Adappa, MD
Noam A. Cohen, MD, PhD
Jason G. Newman, MD
Eugenia M. Vining, MD
- 1:10-3:00pm **Live Surgery**
David W. Kennedy, MD
James N. Palmer, MD
- 3:00-3:30pm **Draf III: "The outside-in Lothrop"**
Richard Harvey, MD
- 3:30-4:00pm **BREAK and Exhibit Viewing**
- 4:00-4:30pm **Frontal Sinus Balloon Dilatation**
David B. Conley, MD
- 4:30-5:00pm **Frontal Sinus Panel: Which Endoscopic Approach Do You Choose?**
MODERATOR: Raymond Sacks, MD
PANELISTS: Nithin D. Adappa, MD
David B. Conley, MD
James N. Palmer, MD
Eugene M. Vining, MD
Calvin Wei, MD
- 5:00-5:20pm **Improving Results in Revision Frontal Sinus Surgery: Draf IIA & Draf IIB**
Vijay Ramakrishnan, MD
- 5:20-5:40pm **Improving Draf III Results**
Bradford Woodworth, MD
- 5:40-6:00pm **Post-Operative Care of the Frontal Sinus**
Rakesh Chandra, MD
- 6:00-6:20pm **Open Frontal Sinus Cases: Endoscopic Options?**
MODERATOR: Rodney J. Schlosser, MD
PANELISTS: Ricardo Carrau, MD
Jason G. Newman, MD
James N. Palmer, MD
Jeffrey Suh, MD
Kevin C. Welch, MD
- 6:20-6:40pm **Emerging Technologies**
David W. Kennedy, MD

COURSE RECEPTION

- 7:00-10:00pm **Skull Base Professorship Reception & Casino Night**
Penn Museum



PENN International Rhinology and Skull Base Course

FRIDAY, MARCH 7, 2014

- 6:45-7:15am **Continental Breakfast and Exhibit Viewing**
Smilow Commons
- 7:15-7:35am **External Approaches to the Frontal Sinus**
Jason G. Newman, MD
- 7:35-8:05am **Endoscopic DCR**
Raymond Sacks, MD
- 8:05-8:25am **Frontal Sinus Trauma**
Robert Adelson, MD
- 8:25-8:55am **CSF Leaks**
Rodney J. Schlosser, MD
- 8:55-9:15am **Endoscopic Transpterygoid Approach to the Lateral Sphenoid Sinus, Nasopharynx and Infratemporal Fossa**
Ricardo Carrua, MD
- 9:15-9:45am **Case Panel: Balloon, Endoscopic or Open? Approaches for Best Results**
MODERATOR: John Lee, MD
PANELISTS: David B. Conley, MD
Satish Govindaraj, MD
Jivianne Lee, MD
Vijay Ramakrishnan, MD
Bradford Woodworth, MD
- 9:45-10:15am **BREAK and Exhibit Viewing**
- 10:15-10:30am **Walk to John Morgan Building, Reunion Auditorium**
- 10:30am-12:45pm **Demonstration Dissections**
Richard Harvey, MD
Raymond Sacks, MD
- 12:45-1:00pm **Walk to Smilow Center**

PENN RESIDENTS ONLY (OTO & NSG)

- 7:30am-12:45pm **Hands-On Laboratory**
Stemmler Hall
LAB FACULTY: Samuel Becker, MD; M. Sean Grady, MD; David Henick, MD; Alexis H. Jackman, MD; James Kearney, MD; John Y.K. Lee, MD; Jayakar Nayak, MD, PhD; Christopher Rassekh, MD; Jeremy T. Reed, MD; Mark D. Rizzi, MD; Michael B. Siegel, MD; Jeffrey Suh, MD; Lawrence W. C. Tom, MD; Calvin Wei, MD

- 1:00-2:00pm **LUNCH and Exhibit Viewing**

SKULL BASE LECTURES

- 2:00-2:20pm **Principles of Endoscopic Skull Base Surgery and the Nasal Corridor**
Ricardo Carrua, MD
- 2:20-2:40pm **Endoscopic Resection of Sino-Nasal Malignancy**
James N. Palmer, MD
- 2:40-3:00pm **Past, Present & Future of Skull Base Surgery**
John Y. K. Lee, MD
- 3:00-3:10pm **Endoscopic Pediatric Skull Base Surgery**
Phillip B. (Jay) Storm, MD
- 3:10-3:25pm **Imaging of Nasoseptal Flap Reconstruction**
Kim O. Learned, MD

- 3:25-3:40pm **Imaging Patterns of Sinonasal Neoplasia**
Laurie Loevner, MD

- 3:40-4:00pm **Imaging of Central Skull Base Pathology**
Laurie Loevner, MD

- 4:00-4:30pm **BREAK and Exhibit Viewing**

PENN DISTINGUISHED SKULL BASE PROFESSORSHIP

- 4:30-5:15pm **Ricardo Carrua, MD**
- 5:15-6:00pm **Marvin Bergsneider MD**
- 6:00-6:15pm **Recognition of Skull Base Professors**

RHINOLOGY/SKULL BASE SINGLE LAB (BLUE GROUP)

- 2:00-2:15pm **Walk to Stemmler Hall**
- 2:15-6:15pm **Hands-On Laboratory**
LAB FACULTY: Samuel Becker, MD; Robert Adelson, MD; Gregg Goldstein, MD; David Henick, MD; Alexis H. Jackman, MD; Ameet Kamat, MD; James Kearney, MD; Jivianne Lee, MD; Jayakar Nayak, MD, PhD; Vijay Ramakrishnan, MD; Christopher Rassekh, MD; Jeremy T. Reed, MD; Mark D. Rizzi, MD; Michael B. Siegel, MD; Jeffrey Suh, MD; Lawrence W. C. Tom, MD; Calvin Wei, MD

SATURDAY, MARCH 8, 2014

- 6:45-7:15am **Continental Breakfast and Exhibit Viewing**
Smilow Commons
- 7:15-7:30am **Walk to John Morgan Building, Reunion Auditorium**
- 7:30-9:00am **Demonstration Dissection**
Ricardo Carrua, MD
- 9:00am **Lecture Only and Blue Lab Group Adjourned**
- 9:00-9:15am **Red Lab Group (Double Lab) walk to Stemmler Hall**
- Combined Rhinology/Skull Base and Rhinoplasty Participants walk to Smilow Center**

RHINOLOGY/SKULL BASE DOUBLE LAB (RED GROUP)

- 9:15-12:15am **Hands-On Laboratory**
Stemmler Hall
LAB FACULTY: All
- 12:15-12:30pm **Walk to Smilow Center**
- 12:30-1:15pm **LUNCH (Smilow Commons)**
- 1:15-1:30pm **Walk to Stemmler Hall**
- 1:30-5:00pm **Hands-On Laboratory**
Stemmler Hall
LAB FACULTY: All
- 5:00pm **Red Group Adjourned**

PENN Rhinoplasty Course

Course Director

Oren Friedman, MD

Associate Professor
Department of Otorhinolaryngology-
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

Co-Directors

Ara A. Chalian, MD

Professor
Department of Otorhinolaryngology-
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

Daniel G. Becker, MD

Clinical Professor
Department of Otorhinolaryngology-
Head and Neck Surgery
Perelman School of Medicine at the
University of Pennsylvania

Course Faculty

Robert Adelson, MD

Albany ENT and Allergy
Albany, NY

Paul Carniol, MD

Director of Facial Plastic Surgery and
Clinical Professor
Rutgers New Jersey Medical School
Newark, NJ

Fred G. Fedok, MD

Chief and Professor of Surgery
Otolaryngology-Head and Neck Surgery
Penn State Hershey College of Medicine
Hershey, PA

Timothy Greco, MD

Clinical Associate Professor
Perelman School of Medicine at the
University of Pennsylvania
Philadelphia, PA

Grant Hamilton, MD

Associate Professor
Mayo Clinic
Rochester, MN

Howard Krein, MD, PhD

Assistant Professor
Thomas Jefferson University
Philadelphia, PA

Tom D. Wang, MD

Director, Facial Plastic &
Reconstructive Surgery
Oregon Health and Science University
Portland, OR

Target Audience

This course is designed for practicing clinicians and scientists as well as residents with an interest in rhinology and rhinoplasty. It is also intended for nursing staff involved with the care of patients with nasal problems.

Course Overview

This course will cover valuable information for general otorhinolaryngologists as well as those focusing their practice on rhinology or facial plastic surgery. Plan to attend and learn what the experts recommend for the most difficult problems as well as the most common conditions. Earn CME credit while engaging with distinguished faculty who provide broad perspectives to this comprehensive program.

Topics to be covered by the experts and by attendee discussion include: Evaluation and analysis of the nose; basic and advanced nasal anatomy; functional and aesthetic nasal surgery; nasal valve surgical techniques; treatment of surgical failures; pre-operative planning for safe airway and cosmetic facial plastic surgery; maximizing success in nasal airway surgery and functional septorhinoplasty; complications in airway, and facial plastic surgery; tips and pearls for rhinoplasty and other facial plastic procedures; prevention and management of rhinoplasty complications; understanding terms and uses of grafts in rhinoplasty. In addition to lectures and discussion with audience participation, attendees may actively participate in a laboratory dissection session.

Objectives

Upon completion of the course participants should be able to:

- Formulate a rationale for patient selection for medical management and surgical treatment of nasal obstruction and nasal deformity
- Define surgical nasal anatomy to insure safety in septorhinoplasty. Assess nasal valve deformities and prescribe their surgical corrections
- Describe the latest concepts and techniques in functional and cosmetic nasal surgery
- Analyze the nose and face, and consider the aesthetic ideals as they pertain to the nose
- Identify appropriate candidacy for successful septorhinoplasty
- Describe how to avoid complications in rhinoplasty

Accreditation

The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Designation of Credit

The Perelman School of Medicine at the University of Pennsylvania designates this live activity for a maximum of **12.5 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- **Rhinoplasty Lecture Only:** 8.5 credits
- **Rhinoplasty Lecture and Lab:** 12.5 credits

Course Registration

It is strongly recommended that you register early for this program. Laboratory registration is limited due to the number of stations in the hands-on laboratory.

All registrations will be confirmed via email. If you do not receive confirmation please email Cathy.Lafferty@uphs.upenn.edu or phone at 215-349-5382.

Early Registration Discount

The following registration rates apply to all registration payments received by January 15, 2014. After that date all fees increase by \$100.

Early Registration Fees

- **RHINOPLASTY LECTURE ONLY**
\$700 Physicians, \$300 Residents
- **RHINOPLASTY LECTURE AND LAB**
\$1100 Physicians, \$600 Residents

Course tuition fees include continental breakfast each day, lunch on Saturday, refreshment breaks, and all course and laboratory (if applicable) materials. Nurses, physician assistants, and other allied health care professionals may register at the Resident rate.

Program Schedule

SATURDAY, MARCH 8, 2014

7:00-7:45am **Course Registration, Continental Breakfast and Exhibit Viewing**
Smilow Commons

7:45-8:00am **Welcome/Announcements**

MORNING SESSION MODERATOR: OREN FRIEDMAN, MD

8:00-8:15am **Nasal Airway Physiology**
Robert Adelson, MD

8:15-8:30am **Nasal Analysis and Surface Anatomy**
Tom D. Wang, MD

8:30-8:45am **Surgical Anatomy of the Nose**
Grant Hamilton, MD

8:45-9:00am **Surgical Incisions and Incision Terminology**
Howard Krein, MD

9:00-9:15am **Basic and Advanced Septoplasty Techniques**
Daniel G. Becker, MD

9:15-9:30am **The Nasal Valve**
Oren Friedman, MD

9:30-9:50am **The Art of Rhinoplasty Consultation and Patient Selection**
Fred G. Fedok, MD

9:50-10:20am **BREAK and Exhibit Viewing**

10:20-10:35am **Tip Position: How I Set Rotation and Projection**
Tom D. Wang, MD

10:35-10:50am **Tip Refinement**
Timothy Greco, MD

10:50-11:05am **Dorsal Modifications**
Grant Hamilton, MD

11:05-11:20am **Osteotomies**
Robert Adelson, MD

11:20-11:35am **Alar Base Narrowing**
Timothy Greco, MD

11:35-12:00pm **External Rhinoplasty: Step by Step and Personal Philosophy**
Grant Hamilton, MD

12:00-12:30pm **Endonasal Rhinoplasty: Step by Step and Personal Philosophy**
Fred G. Fedok, MD

12:30-1:30pm **LUNCH and PANEL DISCUSSION Nasal Analysis and Surgical Approaches**
MODERATOR: Oren Friedman, MD
PANELISTS: All Faculty

SPECIAL DISCOUNT FOR THOSE WHO REGISTER FOR BOTH THE PENN INTERNATIONAL RHINOLOGY AND SKULL BASE AND THE PENN RHINOPLASTY COURSES WITH LAB

See the registration form or online registration site for details. The PENN Rhinology & Skull Base Lecture Only and Lecture and Single Lab (Blue Group) schedules have been designed to accommodate those who wish to attend *BOTH* courses. However, on Saturday morning participants will choose to attend *EITHER* the Rhinology demonstration dissections *OR* the Rhinoplasty lectures, from 7:30-9:00 am.

AFTERNOON SESSION MODERATOR: ARA A. CHALIAN, MD

1:30-1:45pm **Lessons Learned: How to Become an Expert in Rhinoplasty**
Paul Carniol, MD

1:45-2:00pm **Management of the Crooked Nose**
Tom D. Wang, MD

2:00-2:20pm **Rib Grafts in Rhinoplasty**
Timothy Greco, MD

2:20-2:35pm **Functional Nasal Surgery: My Personal Philosophy**
Howard Krein, MD

2:35-2:55pm **Endonasal Rhinoplasty: My Personal Philosophy**
Oren Friedman, MD

2:55-3:15pm **External Rhinoplasty: My Personal Philosophy**
Daniel G. Becker, MD

3:15- 3:30pm **Endonasal Rhinoplasty Tips and Tricks**
Paul Carniol, MD

3:30-4:00pm **BREAK and Exhibit Viewing**

4:00-4:20pm **Pearls and Pitfalls in Rhinoplasty**
Oren Friedman, MD

4:20-5:30pm **Expert Panel Discussion: Rhinoplasty Complications and Challenging Cases**

MODERATOR: Oren Friedman, MD

PANELISTS: All Faculty

5:30pm **Rhinoplasty Lecture Only Participants Adjourned**

SUNDAY, MARCH 9, 2014

7:00-7:45am **Continental Breakfast**

8:00am-12:00pm **Hands-On Laboratory (Stemmler Hall)**
Participants will engage in guided cadaver dissection to include septoplasty, nasal grafts, endonasal rhinoplasty, external rhinoplasty, osteotomy, nasal reconstruction
LAB FACULTY: All

12:00pm **Adjourned**

General Information

Smilow Center for Translational Research

3400 Civic Center Boulevard
Philadelphia PA, 19104

The course directors are pleased to announce that in 2014 they will be bringing this annual program “home” to Penn. While live surgery, demonstration dissections and hands-on labs have always been presented on the Penn campus, lectures have traditionally been held at a local hotel; however, with the completion of the Smilow Center for Translation Research (SCTR) there is now lecture space within the Perelman School of Medicine large enough to accommodate the entire program.



A prominent silhouette in the Philadelphia skyline, the 531,000 square-foot, state-of-the-art Smilow Center was described as “the envy of the nation’s most prestigious research scientists,” by National Institutes of Health (NIH) Director Francis S. Collins, MD, PhD, at the building’s 2011 dedication. The building flanks two of Penn’s outpatient-care facilities: the Ruth and Raymond Perelman Center for Advanced Medicine, home of the Abramson Cancer Center, and the Roberts Proton Therapy Center



SCTR’s Arthur H. Rubenstein Auditorium is an excellent facility, perfectly suited for this annual conference. The hi-tech auditorium, which seats 240, features live Mediasite web streaming and recording, IP videoconferencing and teleconferencing, multiple



microphones built-in for panel discussions, and Mac, PC and laptop connections at the podium. The pièce de résistance of the venue is the Christie® MicroTiles™ video wall located just outside the auditorium, which can be used to display presentations happening in the lecture hall.

The Smilow Center for Translational Research (SCTR) Commons area is ideal for exhibit viewing and dining. It also provides an informal space for faculty and participants to gather. With the video wall located here you won’t have to miss a thing!

Hotel Accommodations at The Inn at Penn

3600 Sansom Street, Philadelphia, PA 19141
Phone: 215-222-0200

The Inn at Penn is a AAA Four Diamond Hilton Hotel located in the University City section of Philadelphia on the University of Pennsylvania campus. All beautifully appointed rooms are equipped with telephones, voice mail, complimentary high speed and wireless Internet access and a spacious work desk, creating a “virtual office” for the business traveler. Each room features



a large screen television, and a refrigerator for your convenience. Stay active during your stay in the fully equipped fitness center with Fitness by Precor. Dine on authentic Italian cuisine and homemade pasta created by dedicated chefs at the hotel’s award-winning Penne Restaurant and Wine Bar. Other great restaurants, museums, and entertainment and shopping options are all within walking distance of the hotel.



Getting in and out of the city is easy. The Inn at Penn is six blocks from Amtrak’s 30th Street Station and only 8 miles/20 minutes from the Philadelphia International Airport. SEPTA (Philadelphia’s mass transit system) has several stops within two blocks of The Inn. Valet parking is available from the hotel entrance located on Sansom Street for a fee of \$39 per day, with in/out privileges (rates subject to change). Alternatively, self-parking is available nearby at the 38th and Walnut Street Garage.

For driving directions and other hotel information, please visit the website: <http://www3.hilton.com/en/hotels/pennsylvania/the-inn-at-penn-a-hilton-hotel-PHLIDHH/index.html>.

Rooms are available **Wednesday, March 5, 2014 through Saturday, March 8, 2014** at a special rate of \$210.00 per night plus tax (currently 15.2%). Reservations may be made directly online at: <http://www.hilton.com/en/hi/groups/personalized/P/PHLIDHH-PRR-20140305/index.jhtml>! Please book your room before **Friday, January 31, 2014**. After the cutoff date, reservations will be accepted on a space and rate availability basis only.

University of Pennsylvania Museum of Archaeology and Anthropology

3260 South Street, Philadelphia, PA 19104



The PENN Distinguished Skull Base Professor Reception and Casino Night will be held at The University of Pennsylvania Museum of Archaeology and Anthropology! Referred to as the Penn Museum, it was founded in 1887, when the University agreed to send out a first expedition to the site of Nippur in modern-day Iraq. Since then this active museum and research institution has been exploring cultures through time and across continents and sharing the adventure with the public. The beautiful historic building is one of Philadelphia's premier unique venues, a 300,000 square-foot gem with exterior details including glass mosaics by the Tiffany



Glass Company, sculptures by Alexander Stirling Calder, and marble medallions by John Ross of New York City.

The Chinese Rotunda, one of the largest unsupported masonry domes in the World, houses a collection of Chinese monumental art that spans thousands of years. On Thursday evening, March 6, 2014 the Rotunda will provide the setting for the course reception, offering an unparalleled event experience! Guests will be free to wonder all of the galleries on the Museum's third floor, adjacent to the Rotunda:

- The Canaan and Israel Exhibition holds a sampling of the Penn Museum's nearly 25,000 artifacts from the area that encompasses modern Israel, the West Bank and Gaza, Jordan and Lebanon, and parts of Syria, the largest collection of artifacts from this region.
- The Buddhist Asia and Japan Galleries trace Buddhism from its origins in India, through its development along ancient land and sea routes into Central Asia, Southeast Asia, Tibet, China, and Japan. Completed in 1915, the Chinese Rotunda houses one of the finest collections of monumental Chinese art in the country, covering some 4,000 years of Chinese history.
- The Egypt (Mummies) Gallery displays carved reliefs, stone coffins, and three-dimensional sculpture that testify to the superb craftsmanship of Egyptian artists and sculptors throughout that country's long history. Explore human and animal mummies, tomb artifacts, and funerary objects and materials used in the mummification process. Learn about the ancient Egyptian belief in an afterlife, and the complex funerary practices they developed over thousands of years.

Disclosures

The Perelman School of Medicine at the University of Pennsylvania, Office of Continuing Medical Education, adheres to the ACCME Standards for Commercial Support. Faculty disclosure information will be made available in the conference materials and syllabi. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products within their presentations.

Course Cancellation Policy

The University of Pennsylvania reserves the right to cancel or postpone any course due to unforeseen circumstances. In the event of cancellation or postponement by the University, the University will refund conference registration fees but is not responsible for any related costs, charges or expenses to participants including cancellation fees assessed by airlines, travel agencies and hotels.

If a participant must cancel his/her registration, he or she may receive a refund if written notification is received by **February 3, 2014**. Refunds will not be processed after this date. All refunds are subject to a **\$75.00 cancellation fee**. Please fax or email your cancellation notification to Cathy Lafferty, at fax number 215-662-4515 or Cathy.Lafferty@uphs.upenn.edu. For more information please call 215-349-5382.

Nondiscrimination Statement

The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic group, age, status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic or other University administered programs or employment. Questions or complaints regarding this policy should be directed to the Executive Director, Office of Affirmative Action, Suite 228, Sansom Place East, 3600 Chestnut Street, Philadelphia, PA 19104-6106 or 215-898-6993 (Voice) or 215-898-7803 (TDD).

Services for the Disabled/Special Arrangements

If special arrangements are required for an individual with a disability, or for any reason, to attend this meeting please contact Cathy Lafferty at 215-349-5382 or email Cathy.Lafferty@uphs.upenn.edu by February 15, 2014.



Upcoming and Ongoing Events

2nd Annual PGY3 ORL SimFest

April 26, 2014

Penn Medicine Clinical Simulation Center
Philadelphia, PA

This one-day program is intended for PGY3 ORL Residents, providing the opportunity to hone cognitive and psychomotor skills. Training includes simulation-based educational activities and hands-on practice of surgical skills. The state-of-the-art Sim Center also offers the chance to simulate complex medical scenarios using high technology manikins, focusing on appropriate management and interactions with colleagues and family. Course Directors: James Kearney, MD, Perelman School of Medicine at the University of Pennsylvania; Ellen Deutsch, MD and Luv Javia, MD, Children's Hospital of Philadelphia; Sonya Malekzadeh, MD, Georgetown University; and Kelly Malloy, MD, University of Michigan.

1st International TransOral Robot Surgery (TORS) Conference*

July 24 - 25, 2014

Smilow Center for Translational Research
Philadelphia, PA

This one-and-a-half-day conference is designed for Otolaryngologists, Head and Neck Surgeons, Radiation Oncologists, Medical Oncologists, Oral and Maxillofacial Surgeons and other related health care professionals such as Speech Language Pathologists, nurses, nurse practitioners and physician assistants. The agenda will include didactic presentations, TORS cadaver dissections, live TORS surgery, and expert panel discussions. The special focus of the meeting will include: TORS for benign and malignant lesions of the pharynx and larynx; TORS for parapharyngeal space and skull base lesions; and robotic sleep apnea surgery. Course directors, Dr. Gregory S. Weinstein and Dr. Bert W. O'Malley, Jr. have gathered a renowned national and international faculty. The course will immediately precede the IFHNOS/AHNS World Congress in New York City, with expedient train travel from Philadelphia to NYC making it practical and convenient to attend both.

21st Annual Advances in Diagnosis and Treatment of Sleep Apnea and Snoring*

February 13-15, 2015

Disney Grand Floridian Resort
Orlando, Florida

We are going back to the Grand Floridian! This annual course, designed to provide a comprehensive review and update of recent advances in sleep apnea and snoring, is intended for physicians in the fields of Otolaryngology, Pulmonary Medicine, Sleep Medicine, Oral Maxillofacial Surgery, Dentistry, Family Practice, Internal Medicine, Neurology, Cardiology, and Psychiatry. A distinguished faculty, all leaders in their fields of sleep medicine, will share their medical and surgical expertise. New approaches and controversies in the management of patients with sleep-disordered breathing will be highlighted. Optional break-out sessions will also be offered. Registration opens September 2014.

7th International Update Course: Otolaryngology Underwater*

November 2015

Come join us for this 4-day program intended for otolaryngologists who wish to combine a first rate meeting with spectacular scuba diving opportunities. Course directors Dr. David Kennedy and Dr. Bert O'Malley, Jr. are planning another excellent program to review and update recent advances in many subspecialty areas in the field. Distinguished faculty from around the world will be featured. Location TBA; more information and registration coming soon!

Visiting Mini Fellowship in Endoscopic Sinus Surgery

University of Pennsylvania Department of
Otorhinolaryngology-Head and Neck Surgery

This program is designed for practicing Otolaryngologists with a significant interest in endoscopic sinus surgery and management of sinus and nasal problems. The course is a 3-day, one-on-one clinical experience where participants may spend time with Dr. David Kennedy, Dr. James Palmer, and Dr. Nithin Adappa during their office hours, observing them in surgery, and performing a cadaveric dissection. It will be of particular benefit to Otolaryngologists who have been to didactic courses, developed some experience with FESS and identified specific problem areas in the surgical management of patients with sinus disease. A maximum of two Otolaryngologists is admitted to the mini fellowship at any one time, allowing for a close one-on-one experience with the faculty. Participants are encouraged to present CT scans from their own difficult or interesting patient cases. Mini Fellows are invited to attend Wednesday evening clinical conferences and Thursday morning Grand Rounds.

*The Perelman School of Medicine at the University of Pennsylvania is accredited by the Accreditation Council for Continuing Medical Education (ACME) to provide continuing medical education for physicians. These activities are approved for AMA PRA Category 1 Credits™.

Meeting Registration Form

Name (first) _____ (last) _____

MD PhD DO NP PA Other _____

Specialty: Otorhinolaryngology Facial Plastic and Reconstructive Surgery Neurosurgery General Practice
 Other _____

Address (home) or (office) _____

City _____ State _____ Zip Code _____ Country _____

E-mail address _____

Daytime phone (_____) _____ Fax (_____) _____

Tuition Fees

Early Registration Special! The following special rates are in effect until January 15, 2014 only! After January 15, 2014 all rates increase by \$100.

PENN International Rhinology and Skull Base Course • March 6-8, 2014

TUITION FEES: (Please check one)

LECTURE ONLY

- \$900 Physicians
 \$700 Residents*

LECTURE & SINGLE LAB - BLUE GROUP

Friday, PM

- \$1650 Physicians
 \$1300 Residents*

LECTURE & DOUBLE LAB - RED GROUP

Saturday, AM & PM

- \$2150 Physicians
 \$1700 Residents*

**Residents are required to submit a verification letter from their department for the reduced fee. Nurses, physician's assistants, and other allied health care professionals may register at the Resident rate.*

COURSE RECEPTION • Thursday, March 6, 2014 at The Penn Museum 7:00-10:00pm

I plan to attend the Skull Base Professorship Reception and Casino Night

- YES NO (Free for all course participants)

PENN Rhinoplasty Course • March 8-9, 2014

TUITION FEES: (Please check one)

LECTURE ONLY

- \$700 Physicians
 \$300 Residents*

LECTURE & LAB (SUNDAY AM)

- \$1100 Physicians
 \$600 Residents*

**Residents are required to submit a verification letter from their department for the reduced fee. Nurses, physician's assistants, and other allied health care professionals may register at the Resident rate.*

Special Discounted Rate for Combined Registration • March 6-9, 2014

RHINOLOGY LECTURE & SINGLE LAB, BLUE GROUP (Friday PM)

PLUS

RHINOPLASTY LECTURE & LAB (Sunday AM)

- \$2350 Physicians
 \$1500 Residents*

**Residents are required to submit a verification letter from their department for the reduced fee. Nurses, physician's assistants, and other allied health care professionals may register at the Resident rate.*

COURSE RECEPTION • Thursday, March 6, 2014 at The Penn Museum, 7:00-10:00pm

I plan to attend the Skull Base Professorship Reception and Casino Night

- YES NO (Free for all course participants)

Payment Method

TOTAL PAYMENT: \$ _____

Check Enclosed

Payable to Trustees of the University of Pennsylvania
(US dollars drawn on a US Bank)

*No credit card payments accepted by mail;
credit card payment accepted online only.*

LAB SPACE LIMITED – AVAILABLE ON A FIRST COME BASIS. REGISTER EARLY TO SECURE A SPOT!

2 Ways to Register

1. Go online to www.uphs.upenn.edu/pennorl, click on CME Programs and follow the course registration link. Online payment options include credit card, check and wire transfer.
2. Mail Registration Form and Check Payment to: University of Pennsylvania, Hospitality Services, Attn: International Rhinology/Rhinoplasty Course, 3702 Spruce Street, Stouffer Commons, Philadelphia, PA 19104

All registrations will be confirmed by email. If you do not receive confirmation, it may indicate that we have not received your registration. To be sure you are registered, please contact Cathy Lafferty at 215-349-5382 or email cathy.lafferty@uphs.upenn.edu before March 1st.



Penn Medicine

CME Coordinator
Department of Otorhinolaryngology-Head and Neck Surgery
3400 Spruce Street, 5 Silverstein
Philadelphia, PA 19104

Non-Profit Organization
U.S. Postage
PAID
Permit No. 2563
Philadelphia, PA



PENN International Rhinology and Skull Base Course

March 6-8, 2014

PENN Rhinoplasty Course

March 8-9, 2014

Smilow Center for Translational Research
Philadelphia, PA

REGISTER EARLY!

For more information:

Cathy Lafferty, Department of Otorhinolaryngology -
Head and Neck Surgery

Phone: 215-349-5382 • Fax: 215-662-4515

Email: cathy.lafferty@uphs.upenn.edu

Website: <http://www.uphs.upenn.edu/pennorl>