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

NEW: Full Set of Frontal Sinus Instruments and Balloon Approaches
**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

**Distinguished Visiting Faculty**

Robert Adelson, MD  
Albany ENT and Allergy, Albany, NY

Rakesh Chandra, MD  
Associate Professor  
Department of Otorhinolaryngology – Head and Neck Surgery  
Northwestern University  
Feinberg School of Medicine, Chicago, IL

David B. Conley, MD  
Associate Professor  
Department of Otorhinolaryngology – 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 Otorhinolaryngology – Head and Neck Surgery  
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 Otorhinolaryngology – Head and Neck Surgery  
New York Medical College  
Westchester Medical Center, Ardsley, NY

Jivianne Lee, MD  
Orange County Sinus Institue, SCPMG  
Assistant Clinical Professor  
Department of Head & Neck Surgery  
UCLA School of Medicine, Irvine, CA

John Lee, MD  
Assistant Professor  
Department of Otorhinolaryngology – 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 Otorhinolaryngology – 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, Otolaryngology  
Head and Neck Surgery and Neurosurgery

Christopher Rasshek, 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

**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
**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**

<table>
<thead>
<tr>
<th>Option</th>
<th>Fee in USD</th>
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<tbody>
<tr>
<td>LECTURE ONLY</td>
<td>$900 Physicians, $700 Residents</td>
</tr>
<tr>
<td>LECTURE &amp; SINGLE LAB (FRIDAY PM)</td>
<td>$1650 Physicians, $1300 Residents</td>
</tr>
<tr>
<td>LECTURE &amp; DOUBLE LAB (SATURDAY AM &amp; PM)</td>
<td>$2150 Physicians, $1700 Residents</td>
</tr>
</tbody>
</table>

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 RHINOLGY 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.
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  Jeffry 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

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

COURSE RECEPTION
## FRIDAY, MARCH 7, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>6:45-7:15am</td>
<td>Continental Breakfast and Exhibit Viewing</td>
<td>Smilow Commons</td>
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<tr>
<td>7:15-7:35am</td>
<td>External Approaches to the Frontal Sinus</td>
<td>Jason G. Newman, MD</td>
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<tr>
<td>7:35-8:05am</td>
<td>Endoscopic DCR</td>
<td>Raymond Sacks, MD</td>
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<tr>
<td>8:05-8:25am</td>
<td>Frontal Sinus Trauma</td>
<td>Robert Adelson, MD</td>
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<tr>
<td>8:25-8:55am</td>
<td>CSF Leaks</td>
<td>Rodney J. Schlosser, MD</td>
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<tr>
<td>8:55-9:15am</td>
<td>Endoscopic Transpterygoid Approach to the Lateral Sphenoid Sinus, Nasopharynx and Infratemporal Fossa</td>
<td>Ricardo Carrau, MD</td>
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<tr>
<td>9:15-9:45am</td>
<td>Case Panel: Balloon, Endoscopic or Open? Approaches for Best Results</td>
<td>John Lee, MD</td>
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<td>MODERATOR: John Lee, MD</td>
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<td>PANELISTS: David B. Conley, MD</td>
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<td>Satish Govindaraj, MD</td>
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<td>Jivianne Lee, MD</td>
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<td>Vijay Ramakrishnan, MD</td>
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<td></td>
<td>Bradford Woodworth, MD</td>
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<tr>
<td>9:45-10:15am</td>
<td>BREAK and Exhibit Viewing</td>
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<tr>
<td>10:15-10:30am</td>
<td>Walk to John Morgan Building, Reunion Auditorium</td>
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<tr>
<td>10:30am-12:45pm</td>
<td>Demonstration Dissections</td>
<td>Richard Harvey, MD</td>
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<tr>
<td></td>
<td>Raymond Sacks, MD</td>
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<tr>
<td>12:45-1:00pm</td>
<td>Walk to Smilow Center</td>
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### PENN RESIDENTS ONLY (OTO & NSG)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>7:30-9:00am</td>
<td>Demonstration Dissection</td>
<td>Ricardo Carrau, MD</td>
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### PENN DISTINGUISHED SKULL BASE PROFESSORSHIP

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>4:30-5:15pm</td>
<td>Ricardo Carrau, MD</td>
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<tr>
<td>5:15-6:00pm</td>
<td>Marvin Bergsneider MD</td>
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<tr>
<td>6:00-6:15pm</td>
<td>Recognition of Skull Base Professors</td>
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</table>

### RHINOLOGY/SKULL BASE SINGLE LAB (BLUE GROUP)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>2:00-2:15pm</td>
<td>Walk to Stemmler Hall</td>
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</tr>
<tr>
<td>2:15–6:15pm</td>
<td>Hands-On Laboratory</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>LAB FACULTY: Samuel Becker, MD; Robert Adelson, MD; Gregg Goldstein, MD; Alexis H. Jackman, 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</td>
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### SATURDAY, MARCH 8, 2014

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>6:45-7:15am</td>
<td>Continental Breakfast and Exhibit Viewing</td>
<td>Smilow Commons</td>
</tr>
<tr>
<td>7:15-7:30am</td>
<td>Walk to John Morgan Building, Reunion Auditorium</td>
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<tr>
<td>7:30-9:00am</td>
<td>Demonstration Dissection</td>
<td>Ricardo Carrau, MD</td>
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<tr>
<td>9:00am</td>
<td>Lecture Only and Blue Lab Group Adjourned</td>
<td>Ricardo Carrau, MD</td>
</tr>
<tr>
<td>9:00-9:15am</td>
<td>Red Lab Group (Double Lab) walk to Stemmler Hall</td>
<td>Combined Rhinology/Skull Base and Rhinoplasty Participants walk to Smilow Center</td>
</tr>
</tbody>
</table>

### RHINOLOGY/SKULL BASE DOUBLE LAB (RED GROUP)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>9:15-12:15am</td>
<td>Hands-On Laboratory</td>
<td>All</td>
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<tr>
<td></td>
<td>LAB FACULTY: All</td>
<td></td>
</tr>
<tr>
<td>12:15-12:30pm</td>
<td>Walk to Smilow Center</td>
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<tr>
<td>12:30-1:15pm</td>
<td>LUNCH (Smilow Commons)</td>
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<tr>
<td>1:15-5:00pm</td>
<td>Hands-On Laboratory</td>
<td>All</td>
</tr>
<tr>
<td></td>
<td>LAB FACULTY: All</td>
<td></td>
</tr>
<tr>
<td>5:00pm</td>
<td>Red Group Adjourned</td>
<td></td>
</tr>
</tbody>
</table>
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.

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.
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

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

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.
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.
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 mumification 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 cancella-

*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.

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Upcoming and Ongoing Events

**2nd Annual PGY3 Otolaryngology (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 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
☐ $1650 Physicians
☐ $1300 Residents*

LECTURE & DOUBLE LAB - RED GROUP
☐ $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.

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!

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)

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 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