

Continuing Medical Education



Perelman
School of Medicine
UNIVERSITY of PENNSYLVANIA

19TH ANNUAL

Advances in Diagnosis and Treatment of Sleep Apnea and Snoring

**Disney's Boardwalk
Inn Resort
Orlando, Florida**

**February 15-17, 2013
PRESIDENTS' DAY WEEKEND**

Updated Program!

Penn Sleep Centers



Penn Medicine



University of California
San Francisco



© Disney

faculty

COURSE DIRECTORS

RICHARD J. SCHWAB, MD

Professor, Division of Sleep Medicine
Pulmonary, Allergy and Critical Care Division
Department of Medicine
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

ANDREW N. GOLDBERG, MD, MSCE

Professor, Department of Otolaryngology –
Head and Neck Surgery
University of California, San Francisco

ERIC J. KEZIRIAN, MD, MPH

Associate Professor, Department of Otolaryngology –
Head and Neck Surgery
University of California, San Francisco

GUEST FACULTY

PETER CISTULLI, MD, PHD

Professor of Sleep Medicine
Northern Clinical School Woolcock Institute of
Medical Research, University of Sydney, Australia

GARY D. FOSTER, PHD

Director, Center for Obesity Research and Education
Professor, Medicine and Public Health
Temple University, Philadelphia, PA

THORARINN GISLASON, MD, PHD

Professor of Medicine
Landspítali University Hospital, Reykjavik, Iceland

KASEY K. LI, MD, DDS

Adjunct Associate Clinical Professor in Sleep Medicine
Department of Psychiatry, Stanford School of Medicine
Stanford, CA

ATUL MALHOTRA, MD

Associate Professor of Medicine
Harvard Medical School, Boston, MA

MARC I. RAPHAELSON, MD

Director, Greater Washington Sleep Disorders Center
Rockville, MD

EDWARD M. WEAVER, MD, MPH

Professor of Otolaryngology, Chief of Sleep Surgery
University of Washington, Seattle, WA

B. TUCKER WOODSON, MD

Professor and Chief, Division of Sleep Medicine
Medical College of Wisconsin, Milwaukee, WI

UNIVERSITY OF PENNSYLVANIA FACULTY

NALAKA S. GOONERATNE, MD

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

SAMUEL T. KUNA, MD

Associate Professor of Medicine
Chief, Sleep Medicine Section
Philadelphia Veterans Affairs Medical Center
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

ALLAN I. PACK, MB CHB, PHD

Professor of Medicine, Chief, Division of Sleep Medicine
Director, Center for Sleep & Respiratory Neurobiology
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

ILENE M. ROSEN, MD

Associate Professor of Medicine
Division of Sleep Medicine and Pulmonary, Allergy,
& Critical Care Division, Department of Medicine
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

ERICA R. THALER, MD

Professor, Department of Otorhinolaryngology –
Head and Neck Surgery
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

NOEL N. WILLIAMS, MB CHB, MCH

Professor of Surgery
Director, Bariatric Surgery Program
Perelman School of Medicine at the University of Pennsylvania
Philadelphia, PA

COURSE OVERVIEW

This course is coordinated by the Penn Division of Sleep Medicine and the Department of Otorhinolaryngology–Head and Neck Surgery at the University of Pennsylvania and the Department of Otolaryngology–Head and Neck Surgery at the University of California, San Francisco. The program is designed to provide a comprehensive review and update on recent advances in sleep apnea and snoring. New approaches and controversies in the management of patients with sleep-disordered breathing will be highlighted. Leaders in the field of sleep science from Otolaryngology, Pulmonary and Critical Care Medicine, Sleep Medicine, Neurology, Bariatric Surgery and Oral Maxillofacial Surgery will share their medical and surgical expertise in didactic lectures and optional break-out sessions. There will be ample opportunity for interaction with participating faculty. A course syllabus will be provided to each participant. In order to “go green” the syllabus will be provided via flash drive.

TARGET AUDIENCE

This continuing medical education program is intended for the physician in Otolaryngology, Pulmonary Medicine, Sleep Medicine, Oral Maxillofacial Surgery, Dentistry, Family Practice, Internal Medicine, Neurology, Cardiology, and Psychiatry. Nurses and sleep and respiratory therapy technologists are also invited to attend this program.

OBJECTIVES

Upon completion of this course, participants should be able to:

- Discuss new developments in the pathogenesis, diagnosis and management of patients with sleep disordered breathing
- Identify new and alternative medical and surgical treatments for sleep apnea and snoring
- Discuss ramifications of sleep apnea and driving
- Assess new insights from upper airway imaging
- Discuss the association between obesity and obstructive sleep apnea and the outcomes of medical and surgical treatment of obesity
- Review the medical, social and economical consequences of sleep apnea and snoring

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 16.75 *AMA PRA Category 1 Credits*™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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.

REGISTRATION FEES

This CME activity offers an early registration discount for registrations received by December 15, 2012. The standard registration fee of \$725.00 will apply to all mail-in registrations post-marked and all online registrations submitted after December 15th. Seating capacity is limited. We encourage participants to register early.

PHYSICIANS

Early Registration: \$675 • Standard Registration: \$725

**NURSES, ALLIED HEALTH PROFESSIONALS,
SLEEP TECHNICIANS, RESIDENTS & FELLOWS:** \$600

Optional break-out sessions are offered on Friday and Saturday. Participants may register for one break-out session each day. **Break-out registration fee of \$30.00 per session includes lunch on that day.**

Registration fees include program, breakfast, refreshment break each day, 1 complimentary ticket to the EPCOT® fireworks reception and all course materials.

We will confirm all registrations by email. If you do not receive a confirmation within 2 weeks of registration, please contact 215-349-5382.

CANCELLATION & REFUND POLICY

If a participant must cancel his/her course registration, refunds are possible if written notification is received by January 15, 2013. Refunds will not be processed after this date. All refunds are subject to a \$75.00 cancel-

DISNEY'S BOARDWALK INN RESORT

This upscale waterfront resort is steeped in nostalgia and old-fashioned charm. Guest rooms are bright and spacious and offer a variety of views. Room service, concierge, health club, business center, babysitting, self parking, valet parking, laundry services, wireless Wi-Fi access and high speed Internet access are all available on site. The "Boardwalk" is located within walking distance to EPCOT® and is easily accessible to all Disney theme parks and attractions via water launch or bus. The resort offers an exciting array of activities. There are two "quiet" pools and a large pool with a playground area. Tennis, croquet, bike and surrey rentals are also available on site and there is a two-mile jogging trail. Golf courses are located nearby. For tee times just call 407-WDW-GOLF. On the Boardwalk itself there are several outstanding restaurants, nightclubs and boardwalk activities. Whether you bring your family or come yourself, you are sure to enjoy everything this unique complex has to offer. For driving directions or additional information call 407-939-5100. For dining reservations call 407-WDW-Dine. Advance dining reservations are recommended and most may be made 6 months ahead of time.

HOTEL RESERVATIONS

Overnight rooms are available at the Boardwalk Inn beginning Wednesday, February 13th at a special discounted conference rate of \$245.00 per night for single or double occupancy (additional persons 18yrs and older \$25.00 per night). This rate does not include taxes (currently at 12.5%). For reservations call the Group Reservations Office at 407-934-3372 and identify yourself as a participant in the University of Pennsylvania Sleep Apnea Conference. Or you may make reservations online at: <http://www.mydisneymeetings.com/sleep-apnea--snoring-conference-2013/>. You will need to guarantee your reservations with a credit card or deposit. All reservations must be made by January 15, 2013 to receive this special rate. Please note that reservations will be accepted based upon space availability, and rates may increase if you call after January 15th. Rooms are available on a first come, first served basis and may sell out quickly. In the event that rooms at this hotel sell out, an alternative hotel will be offered to you. We urge you to

lation fee. Please email your cancellation notification to cathy.lafferty@uphs.upenn.edu or fax to 215-662-4515. For more information please call 215-349-5382.

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

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, disability 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 or Special Arrangement

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 1, 2013.



plan ahead and make your arrangements early! For your convenience, Disney offers Disney's Magical Express, bus transportation to and from the Orlando Airport. You may make arrangements while booking your hotel room, or make them online once you have a reservation number.

Conference Center: The Sleep Apnea course will be held in the Conference Center at Disney's Boardwalk Inn Resort. It is just a short walk down the path from the hotel. If you are driving to the meeting, parking is available at the Conference Center.

DISNEY THEME PARK TICKETS

Meeting/convention discount park tickets are available for course participants and their families. You may order tickets while you make your hotel reservation or you may call 407-566-5600. Options include 1-day tickets for park entry after 2pm and after 4pm as well as park hopper tickets for 2-5 days. Additional information will be sent to all course registrants. The Disney parks feature something for everyone, from the seven whimsical lands in the Magic Kingdom®, to the iconic Spaceship Earth and World Showcase at Epcot®, to the rides and shows at Disney's Hollywood Studios, to Disney's Animal Kingdom's Kilimanjaro Safari® and Expedition Everest™ and everything in between, to the two awesome water parks at Typhoon Lagoon and Blizzard Beach!

OTHER ORLANDO ATTRACTIONS

The Orlando area also offers a wide variety of other activities, sure to please everyone in your family or group—Universal Studios (featuring The Wizarding World of Harry Potter™), SeaWorld, Gatorland, Buena Vista Water-sports, Orlando Balloon Rides, and the Kennedy Space Center—just to name a few!

course schedule

FRIDAY, FEBRUARY 15, 2013

- 7:00–7:55am **Registration, Continental Breakfast, & Exhibit Viewing**
- 7:55–8:00am **Introduction and Course Announcements**
- 8:00–8:30am **Overview of Sleep Disorders**
Richard Schwab, MD
- Sleep deprivation
 - Narcolepsy, parasomnias, insomnia, PLMs, RBD
- 8:30–9:00am **Pathogenesis and Clinical Presentation of Sleep Apnea**
Atul Malhotra, MD
- Upper airway physiology, fluid shifts
 - REM-related sleep apnea
- 9:00–9:20am **OSA in the Elderly and Cognitive Function**
Nalaka Gooneratne, MD
- What level of AHI matters in the elderly?
 - Association of OSA with dementia
- 9:20–9:40am **Epidemiology of Sleep Apnea Around the World**
Thorarinn Gislason MD, PhD
- Obesity and craniofacial factors
 - Racial and ethnic differences
- 9:40–10:00am **Portable Sleep Studies: The Horse is out of the Barn**
Samuel Kuna, MD
- Diagnostic algorithms for ambulatory sleep studies
 - Outcome data with sleep study paradigms
- 10:00–10:20am **Complementary and Alternative Medicine for Sleep Disorders**
Nalaka Gooneratne, MD
- Use of herbal medications
 - Use of melatonin
- 10:20–10:50am **Break & Exhibit Viewing**
- 10:50–11:10am **Portable Sleep Study Program in Hospitalized Patients**
Richard Schwab, MD
- Who should be studied?
 - Improved outcomes in cardiac patients?
- 11:10–11:30am **Outcome Measures in OSA and Snoring**
Andrew Goldberg, MD, MSCE
- Biomarkers, QOL, cognitive effects
 - Sleep study indices, snoring
- 11:30–12:00pm **Cardiovascular Consequences of Sleep Apnea**
Atul Malhotra, MD
- Myocardial infarction, arrhythmias, CHF
 - Hypertension, stroke
- 12:00–12:20pm **OSA in Commercial & Non-Commercial Drivers: Public Safety Issues**
Allan Pack, MB ChB, PhD
- Medicolegal risk, when to revoke a license
 - Ramifications for the trucking industry
- 12:20–12:40pm **What Have We Learned About the Genetics of Sleep Apnea?**
Thorarinn Gislason MD, PhD
- Iceland experience
 - SAGIC (sleep apnea genetics international consortium) study
- 12:40–1:00pm **What is the Future of Sleep Medicine?**
Allan Pack, MB ChB, PhD
- OSA is a chronic disease: focus on outcomes not diagnosis
 - New model of reimbursement: bundled payment model
- 1:00–1:20 pm **Questions & Answers**

OPTIONAL LUNCH AND BREAK-OUT SESSION

Advance registration required;
box lunch is included.

1:30–2:30pm

The Treatment of Insomnia Including Cognitive Behavior Therapy

Nalaka S. Gooneratne, MD

or

1:30–2:30pm

Sleep Board Review: Polysomnography and Artifacts

Marc I. Raphaelson, MD

Atul Malhotra, MD

Ilene M. Rosen, MD

Richard J. Schwab, MD

8:00–9:30pm

ILLUMINATIONS FIREWORKS & DESSERT RECEPTION AT EPCOT'S FRENCH ISLAND

- Private Dessert Buffet
- Spectacular fireworks display and laser show
- Free for participants (additional fee for family or guests)
- Advance reservations are required—see registration form

Supported in part by:

PHILIPS

RESPIRONICS



© Disney

SATURDAY, FEBRUARY 16, 2013

- 7:30–8:00am **Continental Breakfast and Exhibit Viewing**
- 8:00–8:30am **Sleep Disorders: Year in Review 2013**
Allan Pack, MB ChB, PhD
- Update on sleep apnea
 - Update on narcolepsy, PLMs, insomnia
- 8:30–9:00am **The Obesity Epidemic and Sleep Apnea**
Gary Foster, PhD
- Metabolic syndrome, Type II DM, insulin resistance
 - Update on Sleep Ahead Study
- 9:00–9:30am **CPAP: Evidence-Based Treatment of Choice for SDB**
Ilene Rosen, MD
- Clinical outcomes with CPAP
 - CPAP adherence
- 9:30–9:50am **The Nuts and Bolts of the Delivery of Positive Airway Pressure**
Ilene Rosen, MD
- CPAP, Bilevel systems, AutoPAP, ASV
 - New interfaces
- 9:50–10:10am **CPAP Adherence Tracking: How to Use the Data**
Richard Schwab, MD
- Clinical guidelines
 - Why residual AHI and mask leak are important
- 10:10–10:30am **Diagnosis and Management of Obesity-Hypoventilation Syndrome**
Ilene Rosen, MD
- How to diagnosis Pickwickian syndrome
 - What is the best treatment option?
- 10:30–11:00am **Break & Exhibit Viewing**
- 11:00–11:30am **How to Achieve Medical Weight Loss in 2013**
Gary Foster, PhD
- Behavioral strategies for weight loss
 - Role of medications
- 11:30–12:00pm **Outcomes from Bariatric Surgery in Patients with Sleep Apnea**
Noel Williams, MB ChB, MCh
- What type of bariatric surgery?
 - Indications and outcome data in OSA
- 12:00–12:30pm **New Medical Approaches to OSA Treatment**
Atul Malhotra, MD
- Provent™, Oral Pressure Therapy–Winx™, oropharyngeal exercises
 - Sedative–hypnotics, carbon dioxide
- 12:30–1:00pm **Reimbursement for CPAP, OA, Surgery and PSGs (including Home Studies) in 2013**
Marc Raphaelson, MD
- 2013 updates
 - Can portable sleep studies be cost effective?
- 1:00–1:20pm **Questions & Answers**

OPTIONAL LUNCH AND BREAK-OUT SESSION

Advance registration required; box lunch is included.

1:30–2:30pm **Management of a Fiscally Sound Sleep Lab and Home Sleep Study Programs**

*Marc I. Raphaelson, MD
Richard Schwab, MD*

Registration is limited. This session will use a “town hall” format to discuss various economic aspects of sleep medicine.

or

1:30–2:30pm **Surgical Case Presentations**

*Andrew N. Goldberg, MD, MSCE
Eric J. Kezirian, MD, MPH
Kasey K. Li, MD, DDS
Erica R. Thaler, MD
Edward M. Weaver, MD, MPH
B. Tucker Woodson, MD*



SUNDAY, FEBRUARY 17, 2013

7:30–8:00am **Continental Breakfast & Exhibit Viewing**

8:00–8:30am **Oral Appliances and Their Clinical Indications in OSA: Are they better than CPAP?**

Peter Cistulli, MD, PhD

- Indications
- What is the best oral appliance?

8:30–9:00am **Nasal Evaluation/Therapy and Sinusitis in Patients with SDB**

Edward Weaver, MD

- Significance of septal deviation and obstruction
- Nasal dilators, septoplasty, treatment of rhinosinusitis

9:00–9:20am **Upper Airway Physical Examination and Identifying Sites of Obstruction in Patients with OSA**

Eric Kezirian, MD, MPH

- Drug-induced sleep endoscopy
- Correlating the site of obstruction with surgical options

9:20–9:40am **Insights into the Management of SDB Utilizing Upper Airway Imaging**

Richard Schwab, MD

- Phenotyping the pharynx
- Upper airway changes with surgery, appliances, CPAP, weight loss

9:40–10:00am **Perioperative Management of OSA**

Andrew Goldberg, MD, MSCE

- Patients with sleep apnea surgery
- Nonapneic surgery in patients with apnea

10:00–10:30am **What is the Role of UPPP and Surgery in OSA?**

Edward Weaver, MD, MPH

- Who is a good candidate?
- Outcome data/complications

10:30–10:50am **Break & Exhibit Viewing**

10:50–11:20am **Beyond UPPP: Alternative Palate Surgeries**

B. Tucker Woodson, MD

- Expansion sphincter pharyngoplasty, Z-palatoplasty, palatal advancement
- Techniques and complications

11:20–11:40am **Treatment of Snoring**

Andrew Goldberg, MD, MSCE

- Palatal implants, radiofrequency, laser
- Outcomes data and complications

11:40–12:00pm **T & A in the Treatment of Sleep Apnea in Children**

Kasey Li, MD, DDS

- Presentation of sleep apnea in children
- Indications for tonsillectomy

12:00–12:20pm **Selecting Hypopharyngeal Surgery in OSA**

Eric Kezirian, MD, MPH

- Factors associated with outcomes after various procedures
- Patient indications

12:20–12:40pm **Maxillomandibular Advancement and Maxillary Expansion**

Kasey Li, MD, DDS

- Specific patient indications
- Outcome data/complications

12:40–1:00pm **Robotic Base of the Tongue Surgery (TORS)**

Erica Thaler, MD

- Specific patient indications: lingual tonsils
- Outcome data/complications

1:00–1:20pm **Novel Surgical Options for Treating OSA in 2013 and Beyond**

Eric Kezirian, MD, MPH

- Soft palette and tongue implants, magnets
- Hypoglossal nerve stimulation

1:20pm **Closing Remarks and Evaluations**

Participants must sign in each day, complete a credit request form and submit it to the course registration desk in order to receive CME credits

COURSE REGISTRATION FORM

19TH ANNUAL
Advances in Diagnosis and Treatment of Sleep Apnea and Snoring
February 15–17, 2013

2 WAYS TO REGISTER

- Go online to www.uphs.upenn.edu/pennorl, click on CME Programs and follow the course registration link. Both check and credit card payment options are available online.
- Mail Registration Form and check payment to:
University of Pennsylvania, Conference Services, Holly Marrone, Re: Sleep Apnea, 3702 Spruce Street, Stouffer Commons, Philadelphia, PA 19104. Make check payable to "Trustees of the University of Pennsylvania". Credit card payment is available online only.

NAME _____
FIRST M.I. LAST

☐ MD ☐ DO ☐ PhD ☐ DDS ☐ DMD ☐ OTHER _____

ADDRESS _____

CITY _____ STATE _____ COUNTRY _____ ZIP _____

PHONE (_____) _____ FAX (_____) _____

E-MAIL _____

MEDICAL SPECIALTY _____

TUITION FEES

Physicians

Early Registration Fee (*before December 17th*) _____ @ \$675 = \$ _____

Standard Registration Fee (*after December 17th*) _____ @ \$725 = \$ _____

**Nurses, Allied Health Professionals,
Sleep Technicians, Residents, Fellows**

_____ @ \$600 = \$ _____

OPTIONAL LUNCH & BREAK-OUT SESSIONS

Please check ONLY ONE PER DAY if you would like to participate in a break-out session.
Pre-registration is required. Space is limited; cost includes lunch.

Friday, February 15, 2013

- ☐ The Treatment of Insomnia Including Cognitive Behavior Therapy _____ @ \$30 = \$ _____
- ☐ Sleep Board Review: Polysomnography & Artifacts _____ @ \$30 = \$ _____

Saturday, February 16, 2013

- ☐ Management of a Fiscally Sound Sleep Lab and Portable Home Sleep Study Programs _____ @ \$30 = \$ _____
- ☐ Surgical Case Presentations _____ @ \$30 = \$ _____

EPCOT® ILLUMINATIONS DESSERT RECEPTION

Friday, February 15, 2013, 8:00–9:30pm, French Island
Free for course registrants; additional guest tickets available. All must be pre-registered.

Course Participant _____ @ \$0 = \$ _____

Spouse or Adult Guest(s) _____ @ \$20 = \$ _____

Children 3–12 (*under 3 are free*) _____ @ \$10 = \$ _____

TOTAL AMOUNT DUE: \$ _____

METHOD OF PAYMENT

- ☐ CHECK Payment enclosed

ALL REGISTRATIONS WILL BE CONFIRMED BY EMAIL

FOR QUESTIONS OR ADDITIONAL INFORMATION, PLEASE CONTACT:

Cathy Lafferty
Phone: 215-349-5382 • Fax: 215-662-4515
Email: cathy.lafferty@uphs.upenn.edu

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

Penn Medicine



CME Coordinator
Department of Otorhinolaryngology –
Head and Neck Surgery
University of Pennsylvania Medical Center
3400 Spruce Street, 5 Silverstein
Philadelphia, PA 19104

MARK YOUR CALENDAR!



UPCOMING AND ONGOING EVENTS

6th International Update Course: Otolaryngology Underwater*

Dec. 4–7, 2012 • Brac Reef Beach Resort, Cayman Brac

A superb lecture series combined with spectacular scuba diving opportunities. This popular 4-day continuing medical education program is intended for practicing Otolaryngologists interested in updating their knowledge and reviewing contemporary diagnosis and treatment techniques in a broad spectrum of topics including rhinology, head and neck cancer, pediatric otolaryngology, otology/neurology, laryngology, rhinoplasty, facial plastic surgery, imaging, allergy and obstructive sleep apnea. The course is directed by Dr. David Kennedy and Dr. Bert O'Malley, Jr; distinguished faculty from around the world will be featured.

Rhinology & Frontal Sinus with Skull Base Forum & Professorship*

As part of the PENN International Rhinology & Skull Base Course
March 7–9, 2013 • The Westin Philadelphia

This comprehensive 3-day continuing medical education program features an outstanding national and international faculty, spotlighting medical and surgical advances in the management of sino-nasal disease, with special focus on frontal sinus, and skull base disorders. Difficult cases, prevention, diagnosis and management of complications arising from sinus disease and skull base surgery will be reviewed. Didactic lectures, live surgical cases, and demonstration dissections will be presented, and the course will offer the opportunity for hands-on cadaver dissection laboratories with powered instrumentation, drills and image guidance systems at every station. A special highlight of the program is the Distinguished Skull Base Professorship.

*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. This live activity is approved for AMA PRA Category 1 Credit(s)™.

PENN Rhinoplasty Course*

March 9–10, 2013 • The Westin Philadelphia

This course will cover valuable information for general otorhinolaryngologists as well as those focusing their practice on rhinology or facial plastic surgery. A distinguished faculty will provide a broad perspective on the most difficult problems as well as the most common conditions. Topics will include evaluation and analysis of the nose, basic and advanced nasal anatomy, functional and aesthetic surgical techniques, management of complications, understanding terms and uses of grafts, and much more. The format will include lectures and panel discussion with audience participation. An opportunity for hands-on lab will also be offered.

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 three-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.

20th ANNUAL ADVANCES IN DIAGNOSIS AND TREATMENT OF SLEEP APNEA AND SNORING

February 14–15, 2014 • Presidents' Day Weekend
Grand Hyatt Union Square • San Francisco, CA

FOR COURSE BROCHURE OR
MORE INFORMATION, CONTACT:

CATHY LAFFERTY

CME Coordinator

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

Email: cathy.lafferty@uphs.upenn.edu

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