We extend a special thank you to all of the AAO-HNS Industry Round Table (IRT) partners!

Corporate support is critical to realizing the Academy’s mission, which is to help our members achieve excellence and provide the best ear, nose, and throat care through professional and public education and research. Our partner organizations allow the Academy to continue the programs and initiatives critical to our members.

Special Thanks To Our IRT Partners

As of August 1, 2014

IRT Leaders

Medtronic
Booth 1002, 1202

Olympus
Booth 703

IRT Members

Acclarent
Booth 1402

Alcon
Booth 1602

Entellus Medical
Booth 602

Teva
Booth 1459

IRT Associates

Auris Medical
Booth 439

Cook
Booth 729

Ethicon
Booth 1513

Intersect ENT
Booth 1547

To learn more, contact David Buckner at dbuckner@entnet.org or 1-703-535-3718.
On behalf of the Boards of Directors, it is with great pleasure that I welcome you to AAO-HNSF 2014 Annual Meeting & OTO EXPO SM in Orlando, Florida. This conference provides a unique opportunity to build and renew relationships with colleagues from around the world.

It is also an opportunity to learn from the world’s leading experts, hear from inspiring honorary guest lecturers, view research, and explore the latest products and services showcased in the OTO EXPO SM. I hope you enjoy your time in Orlando and this premier education and networking event for the otolaryngology—head and neck surgery community.

Sincerely,

Richard W. Waguespack, MD
AAO-HNS/F President

President’s Reception

Join Richard W. Waguespack, MD and Mrs. Carolyn Waguespack

Sunday, September 21, 6:00 pm – 7:30 pm
Orange County Convention Center, Hall B
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## NEW THIS YEAR!

Convention Shuttle Attendees who reserve their room through AAO-HNSF Housing will be entitled to complimentary rides on the convention shuttle service. Shuttle passes can be purchased for $25 per person through registration for those attendees who do not secure housing through AAO-HNSF.
Take the AAO-HNS Challenge!

1. Collect Stamps at our Seven AAO-HNS/F BOOTHs.

2. Drop your completed card in our Member Resource Booth drawing bin in the Central Lobby by 12:00 pm on Wednesday, September 24, for your chance to win one of two Grand prizes and earlier for a chance at one of 12 daily prizes.

PASSPORT TO ENGAGE

Take the AAO-HNS Challenge!
Collect your Stamps at each of our 7 AAO-HNS/F BOOTHs.

Drop this stamped Passport in our Member Resource Booth drawing bin in the Central Lobby by 12:00 pm Wednesday, September 24 for your chance to win:

1st Prize = Full Member Rate Registration ($800 value) for 2015 Annual Meeting & OTO EXPO™ in Dallas, TX
2nd Prize = Four Nights Accommodation for 2015 Annual Meeting & OTO EXPO™ in Dallas, TX

* Bonus! Early entries from Sunday-Tuesday will also have a chance to win daily prizes, including free six-month access to the AAO-HNSF guideline digital bundle. Daily winners are also entered into grand prize drawing.

Name: ___________________________ AAO-HNSF Registration Code: ___________________________
City: ___________________________ State: ___________________________
Email: ___________________________ Phone: ___________________________

Final Drawing will take place Wednesday, September 24. Winners will be notified by email.

GENERAL INFORMATION

2014 ANNUAL MEETING & OTO EXPO™

1. Collect Stamps at our Seven AAO-HNS/F BOOTHs.

2. Drop your completed card in our Member Resource Booth drawing bin in the Central Lobby by 12:00 pm on Wednesday, September 24, for your chance to win one of two Grand prizes and earlier for a chance at one of 12 daily prizes.
Ten Enhancements to the 2014 Annual Meeting & OTO EXPO™

1. President’s Reception will be held in the exhibit hall from 6:00 pm to 7:30 pm on Sunday, September 21.

2. A ‘Best of Orals’ 80-minute session Sunday morning at 10:30 am. Session includes 12 of the highest rated Oral submissions representing all subspecialty topics.

3. Morning breakfast symposia titled ‘View from the Editors: Peer Review, Publishing, and the Editorial Process’ will be held Monday from 7:00 am – 8:00 am at the Hyatt Regency Orlando CME.

4. Three Review Courses—“Head and Neck Surgery,” “Rhinology and Allergy,” and “General Otolaryngology” These extended courses, two- and three-hours long, were designed to help members prepare for the MOC Part III cognitive exam.

5. Daily Meal Vouchers have taken the place of the traditional box lunch. New this year, the food court will be open every day during OTO EXPO™ hours. Every attendee registered for the full or daily conference will be given a $15 meal voucher for each day registered to purchase the food of their choice from any concession stand, at any time during the day.

6. Attendees who reserve their hotel room through AAO-HNSF Housing are automatically awarded a shuttle pass entitling them to ride the shuttle between AAO-HNSF official hotels and the Orange County Convention Center at no additional cost. The shuttle pass is required to be displayed for return trips from the Orange County Convention Center to a hotel. Shuttle passes can be purchased for $25 per person if needed.

7. Academy Technology Center Visit the Academy Technology Center to learn more about our digital resources developed to help you here and online. Staff and committee member volunteers will be available to demonstrate, answer questions, and listen to suggestions regarding such resources as ENTConnect, www.entnet.org, PQRS Wizard®, Patient Safety Event Reporting Tool, and digital resources for the Annual Meeting.

8. Airline luggage check-in service will be available for all attendees. The company Bags pre-prints boarding passes and luggage tags and will transport your luggage from the convention center to the airport. Bags handles the entire check-in process for all domestic flights departing from Orlando International Airport.

9. The OTO EXPO™ will close at 3:00 pm on Tuesday, September 23.

10. For the first time, Instruction Courses will be held on Wednesday morning together with the Scientific Program. Three blocks of courses have been scheduled starting at 8:00 am, 9:15 am, and 10:30 am.
GENERAL INFORMATION

TELEPHONE DIRECTORY

Annual Meeting & OTO EXPO\textsuperscript{SM} Information Desk 1-407-685-4012
First Aid 1-407-685-9828
Hotel Information 1-407-685-4015
AAO-HNSF Member Resource Center 1-407-685-4010
Millennium Society Donor Appreciation Lounge 1-407-685-4003
On-Demand Webcasts 1-407-685-4006
Newsroom 1-407-685-5402
Registration 1-407-685-4013
Security 1-407-685-4001
Show Management Office 1-407-685-5400
Speaker Ready Room 1-407-685-4011

OFFICIAL HOTELS

Embassy Suites Orlando International Drive/Convention Center 8978 International Drive 1-407-352-1400
Hampton Inn Orlando 8900 Universal Boulevard 1-407-354-4447
Hard Rock Hotel at Universal 5800 Universal Boulevard 1-407-503-2000
Hilton Garden Inn SeaWorld 6650 Westwood Boulevard 1-407-354-1500
Hilton Orlando 6001 Destination Parkway 1-407-313-4300
Homewood Suites 8745 International Drive 1-407-248-2232
Hyatt Place Orlando/Convention Center 8741 International Drive 1-407-370-4720
Hyatt Regency Orlando 9801 International Drive 1-407-284-1234
Loews Portofino Bay at Universal 5601 Universal Boulevard 1-407-503-1000
Renaissance Orlando at SeaWorld 6677 Sea Harbor Drive 1-407-351-5555
Rosen Centre Hotel 9840 International Drive 1-407-996-9840
Rosen Plaza Hotel 9700 International Drive 1-407-996-9700
Rosen Shingle Creek 9939 Universal Boulevard 1-407-996-9939
Vista Cay Resort by Millennium 4874 Cayview Ave 1-407-996-4647
Westin Orlando Universal Boulevard 9501 Universal Boulevard 1-407-233-2200

Unless otherwise noted, all functions and events will be located in the Orange County Convention Center – West Building.

9800 International Drive
Orlando, FL 32819

Contents in this Final Program are accurate as of August 12, 2014. Download the OTO-2014 Mobile App for the latest schedule and conference information.
2015 Annual Meeting & OTO EXPO™
Conference Information

Central Lobby
Plan your trip to Dallas!! It is the perfect choice for exceptional meetings, boasting a leading business environment, the title of America’s best sports city, the nation’s largest urban arts district, the best shopping in the Southwest, 14 exciting entertainment districts, a vibrant dining scene, impressive accommodations, and meeting spaces. Visit the Dallas booth to learn more.

AAO-HNS Member Resource Center

Central Lobby
Visit the AAO-HNS Member Resource Center to become a member, renew your membership, and get quick answers to your membership questions.

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<th>Date</th>
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<tr>
<td>Saturday, September 20</td>
<td>8:00 am – 5:00 pm</td>
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<td>Wednesday, September 24</td>
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AAO-HNS/F Product Theater

Hall B, Booth 147
The Product Theater is designed to enhance your product awareness. Don’t miss these presentations from our corporate partners about their products and services. Seating is limited to 150 attendees.

Sunday, September 21
11:30 am - 12:00 pm
Veracyte Inc., Every Thyroid Nodule Has a Tale to Tell

Monday, September 22
12:10 pm - 12:40 pm
Neilmed Pharmaceuticals, Present and Future of Nasal Irrigation Devices in all Age Groups
2:00 pm - 5:00 pm
Medtronic, (by invitation only)
AAO-HNS Socioeconomic Survey

Central Lobby
Be sure to view highlights of trend results of the 2014 AAO-HNS Socioeconomic Survey! Updated information about members’ practice patterns, salary averages, ancillary services, and much more is now available to members.

AcademyU® Learning Center

Outside Hall B
Visit the AcademyU® Learning Center to learn more about the education opportunities the AAO-HNS Foundation has to offer. Staff will be available to demonstrate all of the Foundation’s education products, answer your questions, and listen to suggestions.

Academy Technology Center

Outside Hall B
Visit the Academy Technology Center to learn more about the digital resources developed to help you here and online. Staff and committee member volunteers will be available to demonstrate, answer questions, and listen to suggestions regarding such resources as ENTConnect, www.entnet.org, PQRS Wizard®, Patient Safety Event Reporting Tool, and digital resources for the Annual Meeting.

Accessibility

The American Academy of Otolaryngology–Head and Neck Surgery Foundation (AAO-HNSF) is an accredited Continuing Medical Education (CME) provider and complies with the Americans with Disabilities Act §12112(a). Any participant in need of special assistance, please visit the registration area in Level 1 Concourse to ensure that your needs are accommodated.

Affiliate Meetings

A listing of events held in conjunction with the AAO-HNSF Annual Meeting & OTO EXPOSM begins on page 31 and is searchable in the Annual Meeting mobile app. Download the app at www.entnet.org/annual_meeting.

Airline Luggage Check-in

Level 1 Concourse
The company Bags pre-prints boarding passes, luggage tags, and transports your luggage from the convention center to the airport. Bags handles the entire check-in process for all domestic flights departing from Orlando International Airport.

Badges

For security reasons, AAO-HNSF badges are required for admittance to all events. Badges should be worn and visible at all times. Lost badges should be reported to the registration staff immediately. A $25 fee will be charged to print the replacement badge.
Business Center
Central Lobby
This full-service business center provides exhibitors and attendees with photocopying, faxing, and printing services.

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Continuing Education Evaluations
After you attend an Instruction Course, Miniseminar, or Oral Presentation, be sure to evaluate the session to be eligible to receive continuing education credit. To access the evaluation go to www.entnet.org/annual_meeting, or use the Annual Meeting mobile app. The CME/CE evaluation site will close on October 24, 2014.

Coat and Luggage Check
Level 1 Concourse $3.00 per item checked.

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<td>Wednesday, September 24</td>
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Committee Meetings
Please refer to page 26 for a full listing of scheduled committee meetings, including the date, time and location. For details about AAO-HNS/F committee activities, contact committees@entnet.org. For up to the minute meeting information, download the mobile app at www.entnet.org/annual_meeting.

Computer Stations
Hall B and Level 3 Concourse
Computer stations are available at convenient locations in the convention center for you to print handouts, and complete your conference evaluation.

NEW EVENT! A ‘Best of Orals’ 80-minute session will be held Sunday, September 21, at 10:30 am in Room 205. This session includes 12 of the highest rated Oral submissions representing all nine specialty tracks.
Corporate Symposia

Corporate Symposia are education activities that are supported by the corporate community in conjunction with the Annual Meeting & OTO EXPOSM. The AAO-HNSF does not award continuing education credit for Corporate Symposia. Visit the registration area for an up-to-date listing of Corporate Symposia.

Monday, September 22

6:00 am – 7:30 am
Lumenis
Lumenis: Digital Acublade and the CO2 Laser Treatment of T1 and T2 Laryngeal Cancer
Hyatt Regency Orlando, Coral Spring

6:00 pm – 8:00 pm
Entellus Medical
Live Case Broadcast and Dinner: Balloon Sinus Dilation
Hyatt Regency Orlando, Regency Ballroom U & V

6:30 pm – 8:30 pm
Intersect ENT
Advancing Sinus Surgery with Steroid-Eluting Implants
Hyatt Regency Orlando, Regency Ballroom P & Q

6:30 pm – 8:30 pm
TEVA Respiratory
Advances in Aerosol Therapy for Patients with Allergic Rhinitis
Hyatt Regency Orlando, Regency Ballroom T

Tuesday, September 23

6:30 pm – 8:30 pm
Auris Medical
Rational Pharmacotherapy for Tinnitus: Recent Advances and Perspectives
Hyatt Regency Orlando, Regency Ballroom T

Electronic Devices and Recording Equipment

All cell phones and video cameras must be turned off during sessions. Recording of any kind is prohibited at all education activities, events, and the OTO EXPOSM.

ENT Careers Live!

Hall B, Booth 1671

Employers and job seekers will have an opportunity to take part in ENT Careers Live!, our employment service during the Annual Meeting & OTO EXPOSM. Don’t miss this valuable opportunity on the OTO EXPOSM floor to discover what ENT Careers has to offer. Speak with ENT Careers

Continued on next page
A Warm Welcome to our 2014 Honored Guest Countries

Dominican Republic  Ecuador  Saudi Arabia  United Kingdom

Be sure to attend the ‘Global Health 2014: Our Academy Around the World’ Presentation
Tuesday, September 23, 10:30 am - 11:50 am, Room 206
James E. Saunders, MD (Moderator); Jose Julio Letort, MD; Freddy Alcides Ferreras-Mendez, MD; Abdulrahman A. Al-Hagr, MD; Lokman Saim, MD; Jan Betka, MD; David J. Howard, MD

First Aid
Central Lobby
First Aid is available on a 24-hour basis. Dial 5-9828 on any house phone or 1-407-685-9828 from an external line to reach the attendant.

Global Connections Lounge
Hall C
For international attendees, this lounge is your place to print certificates of attendance, learn more about the 2014 Guest Countries, find out about conference sessions and activities with a global perspective, and find resources about Orlando.

Guideline Central
Level 2 Concourse
Recently, the Foundation formed a partnership with Guideline Central (GC). GC is a producer of evidence-based quick reference guides in both paper pocket card and mobile/web application formats for healthcare professionals. AAO-HNSF has joined with GC to help develop full text clinical guidelines into quick reference tools. Pocket cards for Bell’s Palsy, Tonsillectomy, Tympanostomy Tubes, Sudden Hearing Loss, Acute Otitis Externa, and Improving Voice Outcomes After Thyroid Surgery are now available. Note: Guidelines Central will open Sunday, September 21 at 8:00 am.

Continued from previous page
representatives to sign-up for job alerts, post your resume and access vital career resources. Visit ENT Careers Live! to post your opening on site as well, capitalizing on Annual Meeting exposure! To learn more about this trusted otolaryngology employment source, visit www.healthecareers.com/aaohns.
Hands-On Demonstration and Training Lab

*Hall B, Booth 125*

Hands-On Trainings are supported by the corporate community in conjunction with the AAO-HNSF Annual Meeting & OTO EXPO™. Participating companies will provide all medical supplies, tissue, and cadaveric specimens to create a unique hands-on learning experience. Program content is the sole responsibility of the Sponsor/Medical Education Provider.

**Sunday, September 21**

10:30 am – 12:30 pm  
*Acclarent & Olympus*  
**Advanced Surgical Technique in Office:**  
*Balloon Sinuplasty & Turbinate Reduction*

2:30 pm – 4:30 pm  
*Acclarent & Olympus*  
**Emerging Technologies and Techniques for the Management of Sinus Disease**

**Monday, September 22**

9:00 am – 11:00 am  
*Acclarent & Olympus*  
**Emerging Technologies and Techniques for the Management of Sinus Disease**

2:00 pm – 4:00 pm  
*Ethicon*  
**Application of Energy Instrumentation in Advanced Head and Neck Surgery**

**Tuesday, September 23**

9:00 am – 11:00 am  
*Medtronic*  
(by invitation only)

Humanitarian Outreach Booth  
*Central Lobby*

There are many opportunities to volunteer around the world. Get connected with the right one! To talk with members who have lived this rewarding experience, ask about travel grants, or to pick up resource materials, please visit the Humanitarian Outreach booth or attend the Humanitarian Efforts Forum on Sunday, September 21, 1:30 pm – 3:30 pm in Room 109A.
Download the 2014 Annual Meeting & OTO EXPO Mobile App for the iPhone, iPad, and Android

Features include:

- Create your conference schedule
- Session descriptions
- Access to the CME/CE Evaluation
- Note taking
- Interactive maps
- Track your shuttle bus
- Exhibitor list
- Twitter feed

Visit http://www.entnet.org/annual_meeting or the iTunes or Google Play app stores to download!
International Corresponding Societies Network
Room 208C

We extend a special welcome to leaders of the 54 International Corresponding Societies (ICS) and invite them to special invitation-only events. To affiliate your society with our Academy, contact international@entnet.org. The ICS relationship is friendly, informal, and collegial, with no legal or financial ties on either side.

Instruction Courses

Instruction Course sessions are one-, two-, or three-hour sessions that address current diagnostic, therapeutic, and practice management topics, presented by both Academy members and non-members. Tickets can be purchased at the Instruction Course counters located in the Central Lobby or at Registration.

Instruction Courses are offered in the following formats:

- **Didactic Lecture** — Course will be presented in a large-audience lecture setting.
- **Audience Polling** — Presentations include the opportunity for audience members to respond to polling questions.
- **Hands-On** — Hands-On courses are classroom set and limited to 40 participants.
- **Mini-Course** — Mini-Courses promote informal discussion and the exchange of information. These courses will be limited to 25 participants.

Residents and Fellows-in-Training members of the AAO-HNS are eligible to receive complimentary Instruction Course tickets. Stop by the Instruction Course Ticket Counters to select your Instruction Course(s). These complimentary Instruction Course tickets will be distributed from 7:00 am–12:00 pm each day on a first-come first-served basis. Please note: Attendees of these complimentary Instruction Courses are not eligible for CME credit, and recipients of a Resident Leadership Grant are required to attend the Opening Ceremony and the SRF General Assembly meeting in their entirety.
Lactation Room
A nursing room has been designated at the Orange County Convention Center to enable new mothers to nurse or pump in a comfortable and private area. Please stop by the Show Management Office in the Central Lobby for additional information.

Legislative Advocacy Booth
Outside Hall B or Level 1 Concourse
The AAO-HNS is committed to the enactment of legislation that will strengthen the delivery of, and access to, quality healthcare in the United States. We believe that legislative, political, and grassroots advocacy are keys to defining the future of otolaryngology. By participating in these programs, AAO-HNS members are afforded the opportunity to educate their elected officials about their practices and the patients they serve. To learn more, visit one (or both) of the Legislative Advocacy booths.

Lost and Found
Central Lobby, Show Management Office
Please visit Lost and Found if you misplace an item or find something missing. The office can be reached at 1-407-685-5400.

Millennium Society
Donor Appreciation Lounge
Room 207
We are pleased to offer all Millennium Society members EXCLUSIVE access to a special donor appreciation Lounge. The lounge provides a quiet area to take a break, recharge yourself and your electronic devices, check messages, connect with colleagues, and enjoy light meals or refreshments. Make a donation onsite if you are not already a Millennium Society member and receive immediate membership benefits.

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<td>Wednesday, September 24</td>
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Newsroom
Room 311G
The Newsroom serves as a workspace for credentialed members of the media to work during the Annual Meeting.

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On-Demand Webcasts
Level 3 Concourse
Selected sessions will be recorded and available for download. They can be purchased one-half hour after the completion of these sessions. Orders may be placed and purchases made at the convention center or online following the conference at www.entnet.org/annual_meeting.
OTO EXPO<sup>SM</sup> Hall B

The practice of medicine extends beyond the exam room. The OTO EXPO<sup>SM</sup> averages 300 companies that cater to every aspect of your practice—device manufacturers, pharmaceutical companies, collection services, EMR systems, waiting room solutions, financial management firms, and more.

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<td>Tuesday, September 23</td>
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Children under 16 are not permitted in the Exhibit Hall.

OTO EXPO<sup>SM</sup> Lead Retrieval

Use the OTO EXPO<sup>SM</sup> barcode on your registration badge to provide your contact information (including name, address, phone number, and email address) to the exhibitors you visit in the OTO EXPO<sup>SM</sup>.

Otolaryngology Historical Society Booth, Meeting, and Reception

Stop by the Otolaryngology Historical Society booth and sign up to be an OHS member. Join fans of our specialty's history at the OHS Annual Meeting Reception, Monday, September 22, 6:30 pm–8:30 pm, at the Hyatt Regency Orlando, for an evening of papers and networking. To purchase a ticket, visit the Member Resource Center no later than Monday, September 22, 2:00 pm. For details see the ad on page 46.

Otolaryngology—Head & Neck Surgery Meetings and Workshops Level I Concourse

Brochures for otolaryngology—head and neck surgery-related meetings will be posted near registration. Non-meeting brochures are not permitted in this area.

Plug-In Stations

Hall C, Level 1 and Level 3 Concourses

Plug-In and recharge your mobile devices throughout the conference at Plug-In locations throughout the convention center.

Posters

Hall C

Scientific Posters will be located in Hall C of the Orange County Convention Center.

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Poster Presentation Breakfast

*Hall C*

**Tuesday, September 23, 7:00 am – 8:00 am**

Learn about the latest advancements in research directly from the sources. Ask questions and share experiences with the poster presenters in a truly interactive session!

Prayer and Reflection Room

*Room 202C*

This place of peace and quiet is provided for individuals of all faiths. Please respect others and refrain from using laptops or cell phones, and from eating, drinking, or loitering in this area.

Publication Kiosk

*Central Lobby*

The Publication Kiosk displays complimentary copies of *Meeting Daily* and *ENT & Audiology News*.

Refund Policy

There will be a 25 percent processing fee on all conference registration cancellations received in writing on or before July 11, 2014. All other cancellation requests must be received in writing on or before August 22, 2014, in order to be eligible for a 50 percent refund. All Instruction Courses are non-refundable. **No refunds will be processed if cancellation is received after August 22, 2014, and refunds will not be given for no-shows. Ultrasound Workshop registration refund requests must be received in writing on or before July 11, 2014, in order to be eligible for a 50 percent refund. No refunds will be processed if cancellation for the Ultrasound Workshop is received after July 11, 2014. Refunds will be processed within 30 days following the 2014 Annual Meeting & OTO EXPOSM.**

Regional Caucuses (by invitation)

Delegates from Africa, Asia-Pacific Region, and Latin America are invited to their regional caucuses. For details on date, time, and location, contact international@entnet.org. U.S. registrants interested in these regions may also request an invitation.

Scooters and Wheelchairs

*Central Lobby*

Wheelchairs and motorized scooters are available and can be reserved at the Show Management Office. Proper identification is required.
Scientific Program

The Scientific Program of the Annual Meeting & OTO EXPO™ includes Scientific Oral Presentations, Miniseminars, and Scientific Poster Presentations. Scientific Oral Presentations and Miniseminars are included with the full conference registration and are held starting at 10:30 am on Sunday and from 8:00 am to 12:00 pm, Monday through Wednesday morning.

- **Scientific Oral Presentations**—A series of five-minute oral presentations that take place within either 50- or 80-minute topical sessions focusing on cutting-edge clinical and translational basic research aspects of otolaryngology.

- **Miniseminars**—Presentations, case studies and/or interactive discussions provide an in-depth, state-of-the-art look at specific topics.

- **Scientific Posters**—Approximately 400 posters will be on display in Hall C Sunday through Tuesday during registration hours.

Smoking Policy

Smoking is prohibited in all areas of the Orange County Convention Center.

Speaker Ready Room

**Room 209**

All speakers should visit the Speaker Ready Room to run through their presentation at least 24 hours before they are scheduled to present. This will ensure that the presentation has been properly uploaded and that all sound and video content will be displayed properly.

<table>
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<tr>
<th>Day</th>
<th>Time</th>
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<tbody>
<tr>
<td>Saturday, September 20</td>
<td>12:00 pm – 5:00 pm</td>
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<td>Sunday, September 21</td>
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<td>Monday, September 22</td>
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<td>Tuesday, September 23</td>
<td>7:00 am – 5:30 pm</td>
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<tr>
<td>Wednesday, September 24</td>
<td>7:00 am – 12:00 pm</td>
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Submission of Manuscripts to *Otolaryngology—Head and Neck Surgery*

All papers read before the AAO-HNSF Annual Meeting & OTO EXPO™ become property of the Foundation. All Oral Presentations presented during the Scientific Program must be submitted to the journal, *Otolaryngology—Head and Neck Surgery*. **Accepted papers are prohibited from being published elsewhere.** Papers may be presented (but not published) elsewhere after the conference, provided that the *Otolaryngology—Head and Neck Surgery* journal is cited. Contact otomanager@entnet.org for more details.
ACCREDITATION AND CONTINUING EDUCATION

The AAO-HNSF Annual Meeting & OTO EXPO® targets practicing otolaryngologists—head and neck surgeons and associates, researchers in otolaryngology, senior academic professors and department chairs, international societies, fellows-in-training, residents, and non-physician clinicians.

Annual Meeting & OTO EXPO® Mission

The AAO-HNSF Annual Meeting & OTO EXPO® program offers otolaryngologists and other interested health professionals a series of unique and dynamic education experiences designed to broaden and enrich their understanding of otolaryngology—head and neck surgery and provide a foundation for lifelong learning.

The Annual Meeting & OTO EXPO® program format (including Scientific Orals, Instruction Courses, Miniseminars, and Posters) will help participants maintain an awareness of accepted methods of diagnosis and treatment, and will provide updates on new developments in the field. The General Competencies for Physicians (adopted by the Accreditation Council for Graduate Medical Education and the American Board of Medical Specialties)—medical knowledge, patient care, interpersonal and communication skills, professionalism, practice-based learning and improvement, and systems-based practice—will be addressed in presentations throughout the various sessions.

At the conclusion of the Annual Meeting & OTO EXPO®, participants should be able to:

- Apply knowledge of current issues globally affecting the diagnosis, evaluation, and treatment of otolaryngologic and related disorders.
- Analyze global research-based information and updates on practical applications affecting operative procedures, drugs, and medical devices.
- Utilize improved practice management techniques to facilitate physician performance improvement.
- Translate into practice a broader understanding of the global approaches used in otolaryngology—head and neck surgery.

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education. AAO-HNSF is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Evaluations should be completed by October 24, 2014. Download the mobile app or visit www.entnet.org/annual_meeting.
Credit Hours

AAO-HNSF designates this live activity for AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

- Scientific Program maximum: 13.5 credits
- Instruction Course maximum: 15 credits

While not all sessions are eligible for AMA PRA Category 1 Credit™, total number of credits a participant can earn is 25.5. Credit will be awarded to physicians when documented by the submission of the 2014 Annual Meeting & OTO EXPO™ Evaluation.

The Foundation is not accredited to offer credit to non-physicians. To determine if activities designated for AMA PRA Category 1 Credit™ are acceptable for your licensing or certification needs, please contact your credentialing body directly. The following education activities ARE NOT designated for AMA PRA Category 1 Credit™:

- Eugene N. Myers, MD International Lecture on Head and Neck Cancer
- H. Bryan Neel III MD, PhD Distinguished Research Lecture
- John Conley, MD Lecture on Medical Ethics
- The AAO-HNSF/International Hearing Foundation/Michael M. Paparella, MD Endowed Lecture for Distinguished Contributions in Clinical Otology
- Scientific Poster Presentations
- Otolaryngology Historical Society Presentations

Disclosure of Relevant Financial and Intellectual Relationships

The AAO-HNSF endorses the guidelines for accredited continuing medical education as set forth in the Accreditation Council for Continuing Medical Education’s Standards for Commercial Support and adheres to these standards in the conduct of its education activities. The Foundation maintains control over the development of its education activities and the selection of planners, topics and presenters. A full disclosure of financial and intellectual relationships is submitted by all planners and presenters and the presence of any relevant relationships with a commercial interest is reported to the participants both in the program’s printed materials and at the presentation. In addition, presenters will disclose their intent to discuss drugs or devices or the uses of drugs or devices that have not been approved by the Food and Drug Administration (FDA).

Free Exchange of Medical Education

The AAO-HNSF is committed to the free exchange of medical education. Inclusion of any presentation or exhibit in this meeting, including presentations or exhibits on drugs or devices, or the uses of drugs or devices that have not been approved by the FDA, does not imply an endorsement by the AAO-HNSF of the uses, products, or techniques presented.
Workshop

ACS Ultrasound Course: Thyroid and Parathyroid Ultrasound Skills-Oriented Course

The objective of this course is to introduce the practicing surgeon to office-based ultrasound examination of the thyroid and parathyroid glands. The distinction of normal from malignant lymphadenopathy is emphasized with a demonstration of the comprehensive examination of lymph node basins in cervical zones I-VI.

The process of ultrasound-guided fine-needle aspiration (FNA) of thyroid nodules and enlarged lymph nodes is demonstrated in didactic lecture format. Other conditions which may mimic thyroid pathology or are relevant to an understanding of cervical ultrasound will also be illustrated. In addition, skill sessions allow the surgeon to learn varied techniques of FNA of lesions in phantom models.

Patient volunteers with thyroid and parathyroid pathology and lymphadenopathy will allow supervised hands-on experience with transverse and longitudinal ultrasound methods. Attendees will be instructed in the practical details and hurdles in developing office-based ultrasound.

- Perform office-based examination of the thyroid and parathyroid glands and related pathology.
- Demonstrate comprehensive examination of cervical lymph nodes in levels I-IV.
- Characterize differences between normal and malignant lymph nodes.
- Demonstrate the process of ultrasound-guided fine needle aspiration (FNA).
- Demonstrate through a hands-on skill session, the above skills in live and phantom models.

Accreditation

The American College of Surgeons is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Credit Hours

The American College of Surgeons designates this live activity for a maximum of 7 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Of the AMA PRA Category 1 Credits™ listed above, a maximum of 7 credits meet the requirements for Self-Assessment.
Every full or daily conference registrant will receive a $15 meal voucher for each day they are registered to attend the conference. Meal vouchers can be found in your badge holder in $5 denominations.

Vouchers can be redeemed at any concession stand in Hall B during the OTO EXPO™ hours, Sunday through Tuesday. Choices include:

**Ezra’s Southern BBQ**
BBQ Sandwiches featuring Brisket, Pulled Chicken and Grilled Sausage

**The Crepe Factory**
Savory, sweet, and brunch crepes

**Sandwich Zone**
Classic Deli Sandwiches, Soups, and Salads

**Quik Chix (Rotisserie Chicken)**
Features Fresh Herb Seasoned Rotisserie Chicken, Garlic Mashed Potatoes, Green Beans, Sauteed Corn, White Rice, Rotisserie Salads, Signature Bowls, and more

**ZaZa Cuban Coffee & Café**
Cuban Coffee and Coffee Drinks; Breakfast Breads and Cuban Pastries

**Papa John’s Pizza**
Pepperoni and Cheese Personal Pan Pizza

**Pretzel & Lemonade**
Gourmet Pretzels, Fresh Squeezed Lemonade, and Frozen Treats

**Pita Hut Greek**
Gyros, Souvlaki, Greek Salads, and Baklava

**Nathan’s Hot Dogs**
A Classic Boardwalk Favorite

**The Carver**
Features Prime Rib, Mediterranean Turkey, Salads, and more

**Taste of Asia**
Traditional Asian Stir Fry, Fried Rice and Spring Rolls

**Taste of Philadelphia**
Classic Cheese Steak Sandwiches

**Tortilla Junction**
Beef, Chicken, or Bean and Cheese Burritos, Chips and Salsa, Rice, and Beans
### AAO-HNSF Annual Meeting & OTO EXPO℠

#### Call for Papers 2015 Deadlines

<table>
<thead>
<tr>
<th>Category</th>
<th>Submission Opens:</th>
<th>Submission Closes:</th>
<th>Notifications Sent:</th>
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<tr>
<td><strong>Instruction Course</strong></td>
<td>November 10, 2014</td>
<td>December 15, 2014</td>
<td>March 2015</td>
</tr>
<tr>
<td><strong>Miniseminar</strong></td>
<td>November 10, 2014</td>
<td>December 15, 2014</td>
<td>March 2015</td>
</tr>
<tr>
<td><strong>Scientific (Oral &amp; Poster)</strong></td>
<td>January 19, 2015</td>
<td>February 16, 2015</td>
<td>April 2015</td>
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### ACCESS CONTINUING EDUCATION CONFERENCE EVALUATION

There are many ways you can get to this year’s online Annual Meeting & OTO EXPO℠ Evaluation:

- Visit the Computer Stations located in the Convention Center
- Link from the Annual Meeting mobile application
- Access the evaluation website on your personal computer, laptop, or smartphone

www.entnet.org/annual_meeting
Program Advisory Committee

The Program Advisory Committee is in charge of reviewing and evaluating the merits of all Miniseminars, Scientific Oral Presentations, and Poster abstracts submitted during the call for papers. The committee members advise and assist the Coordinator in organizing the Scientific Program.

Eben L. Rosenthal, MD
Coordinator, Scientific Program
No relationships to disclose

Patrick J. Antonelli, MD, MSc
Consultant: Alcon; Sound Pharmaceuticals Auris Medical; Medtronic ENT; Sharklet Technologies; Foresight Biotherapeutics; Otorony and MedEl

Dole P. Baker Jr., MD
No relationships to disclose

Emiro E. Caicedo-Granados, MD
No relationships to disclose

Sujana S. Chandrasekhar, MD
Board Member: Scientific Development and Research, Inc.

Emiko S. Choi, MD
Coordinator, Instruction Course Program
No relationships to disclose

H. Peter Dobie II, MD
No relationships to disclose

Charles A. Elmaraghy, MD
No relationships to disclose

Philip A. Harris, MD
No relationships to disclose

Michael R. Holtel, MD
No relationships to disclose

Eric J. Kezirian, MD, MPH
Consultant: Apnex Medical; ReVENT Medical; Medtronic; ArthroCare; Pavad Medical Medical Advisory Board: Apnex Medical; ReVENT Medical

Jennifer C. Kim, MD
No relationships to disclose

John H. Krouse, MD, PhD
No relationships to disclose

Daniel J. Lee, MD
No relationships to disclose

Alan G. Micco, MD
Consultant: Alcon Labs

Cherie-Anne O. Nathan, MD
No relationships to disclose

Christopher H. Rassekh, MD
No relationships to disclose

John S. Rhee, MD, MPH
No relationships to disclose

Michael D. Seidman, MD
Consultant: Body Language Vitamin Company

Russell B. Smith, MD
Consultant: ArthroCare

Mark J. Syms, MD
Shareholder and Pension Plan: Cochlear Corporation; Sonan Corporation

Dana M. Thompson, MD, MS
No relationships to disclose

Mark K. Wax, MD
No relationships to disclose

B. Tucker Woodson, MD
Consultant: Inspire Medical; Medtronic ENT; Siesta Medical Research Support: Inspire Medical Royalty: Medtronic ENT Stock Options: Siesta Medical

Robert P. Zitsch III, MD
No relationships to disclose

Complete faculty disclosure information can be found in the itinerary planner at www.entnet.org/annual_meeting.
Instruction Course Advisory Committee

The Instruction Course Advisory Committee is in charge of reviewing and evaluating the merits of all Instruction Course applications submitted during the call for papers. The committee members advise and assist the coordinator in organizing the Instruction Course program.

Sukgi S. Choi, MD
Coordinator, Instruction Course Program
No relationships to disclose

Max M. April, MD
No Relationships to Disclose

Paolo Campisi, MD
Ownership interest (stock): Oto Sim, Corp.

Kenny H. Chan, MD
No relationships to disclose

Daniel C. Cheilius Jr., MD
No relationships to disclose

Eduardo M. Diaz Jr., MD
No relationships to disclose

Paul W. Gidley, MD
Shareholder: Balance Diagnostics

Joseph Han, MD
No relationships to disclose

Matt M. Hanasono, MD
No relationships to disclose

Allison M. Holzapfel, MD
No relationships to disclose

Brandon Isaacson, MD
Consultant: Advanced Bionics, Medtronic Midas Rex Institute, Stryker, Inc.
Course Instructor: Medtronic Midas Rex Institute
Medical Advisory Board: Advanced Bionics
Honoraria: Stryker, Inc.

J. Randall Jordan, MD
No relationships to disclose

Todd T. Kingdom, MD
No relationships to disclose

Catherine R. Lintzenich, MD
No relationships to disclose

Ron B. Mitchell, MD
No relationships to disclose

Brian A. Moore, MD
Consulting Fee/Honoraria: Stryker, Inc.

Karen T. Pitman, MD
No relationships to disclose

Edmund A. Pribitkin, MD
Consultant: Stryker, Inc.

Clark A. Rosen, MD
Consulting Fee: Merz Aesthetic, Inc.
Speakers Bureau: Merz Aesthetic, Inc.

Eben L. Rosenthal, MD
Coordinator, Scientific Program
No relationships to disclose

William H. Slattery III, MD
Stockholder: House Ear Clinic
Stockholder: O’Ray Pharma Medical Advisory Board: Cochlear Corporation

Phillip C. Song, MD
No relationships to disclose

Brendan C. Stack Jr., MD
No relationships to disclose

Jeffrey S. Wolf, MD
No relationships to disclose

Kathleen L. Yaremchuk, MD, MSA
No relationships to disclose

Complete faculty disclosure information can be found in the itinerary planner at www.entnet.org/annual_meeting.
The David R. Nielsen, MD Endowment has been established to honor the significant contributions made by Dr. Nielsen during his 13 years as Executive Vice President and CEO of the American Academy of Otolaryngology–Head and Neck Surgery and its Foundation. At Dr. Nielsen’s request, the funds will be used where needed most.

Since Dr. Nielsen assumed the EVP/CEO role in 2002, the Academy has grown its member services, most notably in the area of quality and patient safety, and maintained its worldwide leadership in education and its Annual Meeting & OTO EXPO℠, all while controlling operating costs, and effectively integrating member services, clinical and health services research support, education, and advocacy.

Through his vision, passion, and dedication, Dr. Nielsen has helped position the American Academy of Otolaryngology–Head and Neck Surgery for continued excellence in serving members and patients.

Your gift supports the continuation of quality education and resources, ensuring a strong Academy for the future and exceptional otolaryngology—head and neck surgery care. Donations can be online at www.entnet.org/donate or in the Millennium Society Lounge, Room 207.
Thank You to Our Millennium Society Life Members

The Foundation sincerely thanks the following Millennium Society Life Members for their generosity that helps to fulfill the Foundation’s mission and advance the specialty.

Peter J. Abramson, MD
Kenneth W. Altman, MD, PhD
American Association of Otolaryngologists of Indian Heritage
J. Noble Anderson Jr., MD
Sellesh Babu, MD
Byron J. Bailey, MD
Robert W. Bastian, MD
Neal S. Beckford, MD
Leslie Bernstein, MD, DDS
Nikhil J. Bhatt, MD
Neil Bhattacharyya, MD
Andrew Blitzer, MD, DDS
Mark E. Boston, MD
Marcella R. Bothwell, MD
I. David Bough Jr., MD
Linda Y. Brodsky, MD (decd.)
Robert E. Butler, MD
C. Ron Cannon, MD
Roy R. Casiano, MD
Sujana S. Chandrasekhar, MD
Ajay E. Chitkara, MD
Sukki S. Choi, MD
Felix W. K. Chu, MD
Noel L. Cohen, MD
Robin T. Cotton, MD
James Croushore, MD
Nathan A. Deckard, MD
James C. Denny III, MD
David R. Edelstein, MD
David E. Eibling, MD
Lee D. Eisenberg, MD, MPH
Janelle A. Y. Engel, MD
Deborah J. Freehling, MD
Lisa T. Galati, MD
Raghuvir B. Gelot, MD
Samuel J. Girgis, MD
Michael E. Glasscock III, MD
Jack L. Gluckman, MD
Steven M. Gold, MD
Barbara Goldstein, PhD
Rebecca D. Golpert, MD
Mary E. Gorman, MD
Thomas A. Graves, MD
A. Kristina E. Hart, MD
Jack V. Hough, MD
John W. House, MD
Stacey L. Ishman, MD, MPH
Barry R. Jacobs, MD
Jonas T. Johnson, MD
Srinivas R. Kaza, MD
David W. Kennedy, MD
Darius Kohan, MD
Frank C. Koranda, MD
Alan D. Kornblut, MD
Dennis H. Kraus, MD
Helen F. Krause, MD (decd.)
John H. Krouse, MD, PhD
Vandana Kumra, MD
Ronald B. Kuppersmith, MD, MBA
Rande H. Lazar, MD
Thomas B. Logan, MD
Rick G. Love, MD
Frank E. Lucente, MD
Rodney P. Lusk, MD
Sonya Malekzadeh, MD
Martha Entenmann Tinnitus Research Center, Inc.
Phillip L. Massengill, MD
Dinesh C. Mehta, MD
Ralph B. Metson, MD
James L. Nettervile, MD
David R. Nielsen, MD
Michael M. Paparella, MD
Spencer C. Payne, MD
Angela M. Powell, MD
Eileen M. Raynor, MD
Richard M. Rosenfeld, MD, MPH
Steven H. Sacks, MD
Jerry M. Schreibstein, MD
Michael D. Seidman, MD
Gavin Setzen, MD
Abraham Shulman, MD
Herbert Silverstein, MD
William H. Slattery III, MD
Nancy L. Snyderman, MD
James A. Stanton, MD
J. Pablo Stolovitzky, MD
Krishnamurthy Sundaram, MD
Duane J. Taylor, MD
Dana M. Thompson, MD, MS
Betty S. Tsai, MD
Ira D. Uretzky, MD
P. Ashley Wackym, MD
Pell Ann Wardrop, MD
Richard Alan Weinstock, DO
Lorraine M. Williams, MD, MPH
Leslie K. Williamson, MD
David L. Witsell, MD, MHS
Peak Woo, MD
Geoffrey L. Wright, MD
Ken Yanagisawa, MD
Jay S. Youngerman, MD
Mark E. Zafereo Jr., MD

As of August 2014
AAO-HNS Business Meeting
Saturday, September 20, 11:30 am – 11:45 am
Room 109A
The Annual Business Meeting of the Academy membership is held in conjunction with the Annual Meeting. Join your leaders on Saturday, September 20, for this official event with reports from the President, Secretary-Treasurer, and Executive Vice President/CEO.

AAO-HNS Career Fair
Monday, September 22, 5:30 pm – 7:30 pm
Hyatt Regency Orlando, Orlando Ballroom L-M
The AAO-HNS Career Fair, hosted by ENT Careers and the HEALTHecAREERS Network provides candidates in all subspecialties and levels of training the opportunity to speak face-to-face with hiring representatives; providing unparalleled access to jobseekers across all disciplines and specialties. HEALTHecAREERS is the single source for all of your healthcare recruitment needs. Employers can leverage this opportunity to personally engage with numerous qualified job seekers at one time. Job seekers should visit HEALTHecAREERS to register and upload your resume at http://healthecareers.force.com/aaohnsjsreg! Employers should contact ENT Careers Live! at Booth 1671 to find out how to take full advantage of this valuable opportunity.

AAO-HNS Member and First-Time Attendee Orientation
Saturday, September 20, 5:30 pm – 6:30 pm
Room 204
Take advantage of all that AAO-HNS membership has to offer! This session will make sure you know how to maximize your membership. Come to this session to learn about the value of the AAO-HNS, meet key leaders, and have a chance to have your questions answered by our knowledgeable staff.

Alumni Receptions
Tuesday, September 23, 6:30 pm – 8:00 pm
Hyatt Regency Orlando, Regency Ballroom O-R
Reconnect with your friends and colleagues from your medical school days while enjoying a selection of appetizers and local entertainment.

Board of Governors (BOG) General Assembly
Monday, September 22, 5:00 pm – 7:00 pm
Room 109B
Open to all AAO-HNSF attendees, the BOG is the grassroots member network of the AAO-HNS and is made up of local, state, regional and national otolaryngology societies from across the U.S. and Canada. Members of the BOG are primarily community practitioners in the field, but all AAO-HNS members are invited and encouraged to attend this event. The General Assembly provides a platform for the BOG candidates for office and Governors or alternative representatives to cast their ballots to elect BOG officers.

Board of Governors Lunch Session
Saturday, September 20, 12:00 pm – 12:55 pm
Room 105
CORE Research Awards Ceremony  
Tuesday, September 23, 10:30 am – 11:50 am  
Room 414AB
Join us to acknowledge the 2014 CORE grantees! The AAO-HNSF, specialty societies, and industry sponsors celebrate those individuals that have developed meritorious research projects and were awarded funding through the Centralized Otolaryngology Research Efforts (CORE) grant program in 2014. These grants range in award size from $5,000 to $80,000 and are essential for increasing the research base in otolaryngology.

Humanitarian Efforts Forum  
Sunday, September 21, 1:30 pm – 3:30 pm  
Room 109A
At this popular forum, the recipient of the Distinguished Award for Humanitarian Service shares his overseas mission experiences. Other Academy members, residents and fellows-in-training, who recently returned from missions, are encouraged to contribute to the discussion. This is another great networking opportunity for anyone who has participated in a medical mission or is planning a future excursion.

International Assembly  
Tuesday, September 23, 3:00 pm - 5:00 pm  
Room 109A
International members in attendance are invited to this forum, recognizing the guest country delegates, making awards to the International Visiting Scholars and for leaders of International Corresponding Societies to discuss issues. Eugene N. Myers, MD, will moderate a conversation with Eben L. Rosenthal, MD, the Scientific Program Coordinator. You will also hear caucus reports from Africa, Europe, the Middle East, Latin America, and the Pacific Rim. No reservations needed!

International Reception  (by invitation only)  
Tuesday, September 23, 8:00 pm – 10:00 pm  
Hyatt Regency Orlando, Orlando Ballroom
All registered international attendees and their spouses are invited to this reception, where Academy President Richard W. Waguespack, MD, will honor the delegates from our Guest Countries — Dominican Republic, Ecuador, Saudi Arabia, and the United Kingdom. There will be a celebration afterwards complete with delicious desserts, a D.J., and dancing! We encourage international visitors to wear national dress or a lapel pin with their country’s flag or society emblem.

Otolaryngology Historical Society (OHS) Meeting and Reception  (Tickets are required)  
Monday, September 22, 6:30 pm – 8:30 pm  
Hyatt Regency Orlando, Orlando Ballroom N
Join fans of our specialty’s history at the OHS Annual Meeting and Reception, for an evening of papers and networking. Tickets can be purchased at the Member Resource Center in the Central Lobby (deadline Monday, September 22, 2:00 pm).
Poster Presentation Breakfast
Tuesday, September 23, 7:00 am – 8:00 am
Hall C
Learn about the latest advancements in research directly from the source! Ask questions and share experiences with poster presenters in a truly interactive session.

President’s Reception
Sunday, September 21, 6:00 pm – 7:30 pm
Hall B
Held in the OTO EXPOSM, the President’s Reception is open to all Annual Meeting & OTO EXPOSM attendees and registered guests. One of our most popular events, this reception honors the outgoing president and provides an opportunity for you to explore the exhibit hall. Badges are mandatory, so please be sure that all guests are registered and properly credentialed.

Section for Residents and Fellows-in-Training (SRF) General Assembly
Monday, September 22, 2:30 pm – 4:30 pm
Room 110
Discuss topics important to you at this stage of your career with other medical students, residents and fellows-in-training. The General Assembly will feature presentations from AAO–HNS leaders, a keynote speaker, section elections, an update of the annual SRF survey, and awards presentations. For medical students, residents, and/or fellows-in-training, and all AAO–HNSF attendees, this is an ideal venue to meet colleagues, have a voice, and get involved in AAO–HNS initiatives and activities.

Women in Otolaryngology (WIO) Section General Assembly
Monday, September 22, 1:00 pm – 2:00 pm
Room 110
The WIO Section exists to enhance the careers of female otolaryngologists. Join WIO members and supporters for presentations from AAO–HNS leaders, a keynote speaker, section elections, and award presentations.

Women in Otolaryngology (WIO) Section Luncheon
Monday, September 22, 12:00 pm – 12:55 pm
Room 110
This year the WIO Section’s keynote speaker is Susan Miller, PhD, Voice and Communications Consultant, Washington, DC. Her presentation is titled, “Presenting Your Best Self.” The session is geared to encourage participants to engage in fun, interactive exercises to teach the important aspects of communication (our voice and body language) in a practical format.
COMMITTEE MEETINGS

(Committee Meetings are listed alphabetically. Unless otherwise noted, committee meetings are open to all AAO-HNS Members)

AAO-HNS/F Boards of Directors Meeting
Saturday, September 20, 9:00 am – 11:30 am
Room 109A

AAO-HNS Business Meeting
Saturday, September 20, 11:30 am – 11:45 am
Room 109A

AAO-HNS/F Executive Committee (by invitation only)
Friday, September 19, 5:00 pm - 7:00 pm
Office Suite B1

Adhoc/Alternative Payment Model Workgroup
Sunday, September 21, 4:00 pm - 5:00 pm
Room 106

Airway and Swallowing Committee
Monday, September 22, 6:00 am - 7:00 am
Room 101B

Allergy, Asthma and Immunology Committee
Tuesday, September 23, 6:00 am - 7:00 am
Room 103B

Board of Governors Executive Committee (by invitation only)
Sunday, September 21, 4:00 pm - 6:00 pm
Room 102B

Board of Governors Legislative Affairs Committee
Saturday, September 20, 1:00 pm - 2:45 pm
Room 105

Board of Governors Rules and Regulations Committee
Saturday, September 20, 11:00 am - 11:55 am
Room 105

Board of Governors Socioeconomic and Grassroots Committee
Saturday, September 20, 3:00 pm – 4:45 pm
Room 105

Complementary/Integrative Medicine Committee
Monday, September 22, 7:15 am - 8:15 am
Room 102A

Core Otolaryngology and Practice Management Education Committee
Monday, September 22, 9:30 am - 10:30 am
Room 103A

CORE Study Section
Saturday, September 20, 4:45 pm - 5:45 pm
Room 101B

CPT Relative and Value Committee
Sunday, September 21, 2:30 pm - 3:30 pm
Room 104B

Credentials and Membership Committee
Sunday, September 21, 6:00 am - 7:00 am
Room 102B
MEETINGS AND RECEPTIONS

Development Committee
Monday, September 22, 7:15 am - 8:15 am
Room 102B

Diversity Committee
Saturday, September 20, 4:45 pm - 5:45 pm
Room 102A

Education Steering Committee
Saturday, September 20, 3:00 pm - 5:00 pm
Room 101A

Endocrine Surgery Committee
Tuesday, September 23, 6:00 am - 7:00 am
Room 104A

ENT PAC Board of Advisors (by invitation only)
Sunday, September 21, 2:00 pm - 4:00 pm
Room 102A

Equilibrium Committee
Monday, September 22, 6:00 am - 7:00 am
Room 102A

Ethics Committee
Monday, September 22, 6:00 am - 8:00 am
Room 103A

Facial Plastic and Reconstructive Surgery Education Committee
Monday, September 22, 7:15 am - 8:15 am
Room 101A

Finance and Investment Subcommittee
Saturday, September 20, 3:00 pm - 4:30 pm
Room 106

General Otolaryngology Education Committee
Sunday, September 21, 6:00 am - 7:00 am
Room 101A

Geriatric Otolaryngology Committee
Tuesday, September 23, 7:15 am - 8:15 am
Room 102B

Head and Neck Surgery and Oncology Committee
Tuesday, September 23, 7:15 am - 8:15 am
Room 103B

Head and Neck Surgery Education Committee
Tuesday, September 23, 6:00 am - 7:00 am
Room 101A

Hearing Committee
Tuesday, September 23, 7:15 am - 8:15 am
Room 103A

History and Archives Committee
Sunday, September 21, 1:30 pm - 2:30 pm
Room 208C

History and Archives Task Force
Monday, September 22, 2:30 pm - 3:30 pm
Office Suite B1
<table>
<thead>
<tr>
<th>Committee</th>
<th>Date</th>
<th>Time</th>
<th>Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Humanitarian Efforts Committee</td>
<td>Sunday, September 21</td>
<td>10:30 am - 11:30 am</td>
<td>101B</td>
</tr>
<tr>
<td>Imaging Committee</td>
<td>Monday, September 22</td>
<td>7:15 am - 8:15 am</td>
<td>104B</td>
</tr>
<tr>
<td>Implantable Hearing Devices Committee</td>
<td>Sunday, September 21</td>
<td>7:15 am - 8:15 am</td>
<td>104B</td>
</tr>
<tr>
<td>Infectious Disease Committee</td>
<td>Sunday, September 21</td>
<td>10:30 am - 11:30 am</td>
<td>102A</td>
</tr>
<tr>
<td>Instruction Course Advisory Committee</td>
<td>Tuesday, September 23</td>
<td>7:15 am - 8:15 am</td>
<td>101A</td>
</tr>
<tr>
<td>International Otolaryngology Committee</td>
<td>Monday, September 22</td>
<td>6:00 am - 7:00 am</td>
<td>104A</td>
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<tr>
<td>International Steering Committee</td>
<td>Tuesday, September 23</td>
<td>7:15 am - 8:15 am</td>
<td>104A</td>
</tr>
<tr>
<td>Journal Editorial Board Meeting</td>
<td>Monday, September 22</td>
<td>6:00 am - 7:30 am</td>
<td>105</td>
</tr>
<tr>
<td>Laryngology and Bronchoesophagology Education Committee</td>
<td>Sunday, September 21</td>
<td>7:15 am - 8:15 am</td>
<td>101A</td>
</tr>
<tr>
<td>Media and Public Relations Committee</td>
<td>Saturday, September 20</td>
<td>5:00 pm - 6:00 pm</td>
<td>102B</td>
</tr>
<tr>
<td>Medical Devices and Drugs Committee</td>
<td>Sunday, September 21</td>
<td>7:15 am - 8:15 am</td>
<td>106</td>
</tr>
<tr>
<td>Medical Informatics Committee</td>
<td>Saturday, September 20</td>
<td>2:15 pm - 3:15 pm</td>
<td>101B</td>
</tr>
<tr>
<td>Microvascular Committee</td>
<td>Tuesday, September 23</td>
<td>6:00 am - 7:00 am</td>
<td>102B</td>
</tr>
<tr>
<td>Nominating Committee (by invitation only)</td>
<td>Saturday, September 20</td>
<td>2:15 pm - 3:15 pm</td>
<td>103B</td>
</tr>
<tr>
<td>Otology and Neurotology Education Committee</td>
<td>Tuesday, September 23</td>
<td>6:00 am - 7:00 am</td>
<td>101B</td>
</tr>
<tr>
<td>Outcomes Research and Evidence Based Medicine Committee</td>
<td>Sunday, September 21</td>
<td>6:00 am - 7:00 am</td>
<td>104B</td>
</tr>
</tbody>
</table>
MEETINGS AND RECEPTIONS

Panamerican Committee
Monday, September 22, 7:15 am - 8:15 am
Room 104A

Patient Safety and Quality Improvement Committee
Sunday, September 21, 7:15 am - 8:15 am
Room 105

Pediatric Otolaryngology Committee
Sunday, September 21, 7:15 am - 8:15 am
Room 101B

Pediatric Otolaryngology Education Committee
Tuesday, September 23, 7:15 am - 8:15 am
Room 101B

Pediatric Webinar Series Recording
Sunday, September 21, 12:30 pm - 2:00 pm
Room 103B

Physician Payment Policy Workgroup
Monday, September 22, 3:30 pm - 5:15 pm
Room 104B

Physician Resource Committee
Saturday, September 20, 3:30 pm - 4:30 pm
Room 102A

Plastic and Reconstructive Surgery Committee
Monday, September 22, 6:00 am - 7:00 am
Room 102B

Program Advisory Committee
Saturday, September 20, 1:00 pm - 2:00 pm, Room 101A
Monday, September 22, 7:15 am - 8:15 am, Room 101B

Research and Quality Steering Committee
Monday, September 22, 12:00 pm - 1:00 pm
Room 108B

Rhinology and Allergy Education Committee
Monday, September 22, 6:00 am - 7:00 am
Room 101A

Rhinology and Paranasal Sinus Committee
Sunday, September 21, 7:15 am - 8:15 am
Room 102A

Robotic Surgery Task Force
Monday, September 22, 6:00 am - 7:00 am
Room 104B

Science and Education Committee
Sunday, September 21, 2:15 pm - 4:30 pm
Room 101B

SDB Focus Group
Sunday, September 21, 11:30 am - 12:30 pm
Room 108B

Section for Residents and Fellows-in-Training Transition Meeting
Tuesday, September 23, 12:00 pm - 1:00 pm
Room 101A
Skull Base Surgery Committee  
Saturday, September 20, 1:00 pm - 2:00 pm  
Room 102A

Sleep Disorders Committee  
Sunday, September 21, 3:45 pm - 5:30 pm  
Room 104B

Specialty Society Advisory Council (SSAC)  
Tuesday, September 23, 6:00 am - 8:15 am  
Room 104B

Surgical Simulation Open Interest Meeting  
Monday, September 22, 5:00 pm - 6:00 pm  
Room 106

Surgical Simulation Task Force  
Sunday, September 21, 6:00 am - 7:00 am  
Room 106

Trauma Committee  
Sunday, September 21, 6:00 am - 7:00 am  
Room 105

Voice Committee  
Saturday, September 20, 1:00 pm - 2:00 pm  
Room 101B

Women in Otolaryngology Awards Committee  
Monday, September 22, 6:00 am - 7:00 am  
Room 103B

Women in Otolaryngology Communications Committee  
Monday, September 22, 7:15 am - 8:15 am  
Room 103B

Women in Otolaryngology Council on Committees  
Tuesday, September 23, 6:00 am - 7:00 am  
Room 106

Women in Otolaryngology Endowment Committee  
Monday, September 22, 6:00 am - 7:00 am  
Room 106

Women in Otolaryngology Governing Council Meeting  
Tuesday, September 23, 7:15 am - 8:15 am  
Room 106

Women in Otolaryngology Leadership Development and Mentorship Committee  
Sunday, September 21, 6:00 am - 7:00 am  
Room 103A

Women in Otolaryngology Program Committee  
Sunday, September 21, 7:15 am - 8:15 am  
Room 103A

Women in Otolaryngology Research and Survey Committee  
Monday, September 22, 7:15 am - 8:15 am  
Room 106

Young Physicians Transition Meeting  
Tuesday, September 23, 10:30 am - 11:30 am  
Room 101A
AFFILIATE MEETINGS

(Affiliate Meetings are listed alphabetically.)

AAO-HNSF and the Middle Eastern ORL Societies Combined Meeting
Saturday, September 20, 12:00 pm - 5:00 pm
Hyatt Regency Orlando, Celebration 9-10

AJRA Editorial Board Meeting
Sunday, September 21, 6:30 am - 8:00 am
Hyatt Regency Orlando, Rock Spring

American Association of Otalaryngologists of Indian Heritage Scientific Seminar Dinner Meeting
Monday, September 22, 6:30 pm - 11:30 pm
Hyatt Regency Orlando, Florida A

ABEA Council and Task Force Meeting
Saturday, September 20, 6:00 am – 7:00 am
Rosen Centre Hotel, Salon 5

American Neurotology Society 49th Annual ANS Fall Meeting
Saturday, September 20, 6:30 am - 5:30 pm
Hyatt Regency Orlando, Regency Ballroom V

American Neurotology Society Executive Council Meeting/Luncheon followed by the ANS Education Committee Meeting
Friday, September 19, 11:00 am - 5:30 pm
Hyatt Regency Orlando, Boardroom

American Otological Society Council Meeting
Sunday, September 21, 6:30 am - 9:30 am
Hyatt Regency Orlando, Boardroom

ASPO Board Meeting
Saturday, September 20, 7:00 am – 7:00 pm
Hyatt Regency Orlando, Columbia 35

ASPO Committee Meeting
Saturday, September 20, 7:00 am – 7:00 pm
Hyatt Regency Orlando, Columbia 34

Christian Society of Otolaryngology Annual Fellowship Breakfast
Sunday, September 21, 6:00 am - 8:00 am
Hyatt Regency Orlando, Columbia 34

Christian Society of Otolaryngology Annual Membership Dinner
Saturday, September 20, 5:00 pm - 9:00 pm
Hyatt Regency Orlando, Blue Spring

COSM SLC Meeting
Monday, September 22, 7:00 am – 9:00 am
Hyatt Regency Orlando, Celebration 2

Ear Research Foundation Serl’s Up Fellow Reception
Sunday, September 21, 7:30 pm - 10:00 pm
Hyatt Regency Orlando, Columbia 34

Eustachian Tube Study Group
Sunday, September 21, 7:00 am – 8:00 am
Hyatt Regency Orlando, Manatee Spring 2

ENT Journal Editorial Board Meeting
Sunday, September 21, 6:00 am – 7:30 am
Hyatt Regency Orlando, Columbia 36

Harvard Medical School Department of Otolaryngology Alumni Reception
Monday, September 22, 6:00 pm - 8:00 pm
Maggiano’s Little Italy, 9101 International Drive, Orlando, FL 32819
Indiana Alumni and Friends Reception  
Monday, September 22, 6:30 pm - 8:30 pm  
Vines Grill and Wine Bar, 7533 West Sand Lake Road, Orlando, FL 32819

Korean American Satellite Symposium  
Sunday, September 21, 5:30 pm - 11:00 pm  
Embassy Suites, Regency Ballroom

Laryngoscope SE/Associate Editors Meeting  
Sunday, September 21, 12:00 pm - 1:00 pm  
Hyatt Regency Orlando, Columbia 36

Mayo Clinic Alumni Association Reception  
Monday, September 22, 6:00 pm - 7:30 pm  
Hyatt Regency Orlando, Columbia 34

Neurolaryngology Study Section Meeting  
Monday, September 22, 7:00 am - 8:00 am  
Orange County Convention Center, Room 303

Operative Techniques in Otolaryngology–Head and Neck Surgery Editorial Board Meeting  
Monday, September 22, 6:00 am - 7:00 am  
Hyatt Regency Orlando, Columbia 34

Otolaryngology & Neurotology Editorial Board Meeting  
Sunday, September 21, 9:30 am - 10:30 am  
Hyatt Regency Orlando, Celebration 2

PAs in Otolaryngology Annual Social  
Sunday, September 21, 5:30 pm - 7:00 pm  
Hyatt Regency Orlando, Celebration 3

Penn State Otolaryngology-HNS Alumni Reception  
Monday, September 22, 6:00 pm - 8:00 pm  
THE PUB, 9101 International Drive Suite 1003, Orlando, FL 32819

Society of University Otolaryngologist (SUO) Task Force on Diversity  
Sunday, September 21, 6:30 am - 8:00 am  
Hyatt Regency Orlando, Silver Spring II

The Department of Otolaryngology of New York Eye and Ear Infirmary of Mount Sinai, Mount Sinai Health System, and the Icahn School of Medicine at Mount Sinai Hospitality Event  
Monday, September 22, 5:30 pm - 7:30 pm  
Hyatt Regency Orlando, Columbia 35

The Department of Otolaryngology of New York Eye and Ear Infirmary of Mount Sinai, Mount Sinai Health System, and the Icahn School of Medicine at Mount Sinai Hospitality Event  
Tuesday, September 23, 5:30 pm - 7:30 pm  
Hyatt Regency Orlando, Columbia 35

The Greater Metropolitan New York Residency Programs–Albert Einstein College of Medicine; Columbia/Cornell; Manhattan Eye, Ear and Throat Hospital; Mt. Sinai School of Medicine; New York Eye and Ear Infirmary–New York Medical College; New York University School of Medicine; SUNY Downstate Long Island Hospital; University of Medicine and Dentistry of New Jersey  
Monday, September 22, 6:00 pm - 8:00 pm  
Hyatt Regency Orlando, Barrel Spring

Triological Society/Laryngoscope Contemporary Review Committee  
Monday, September 22, 12:00 pm - 1:00 pm  
Hyatt Regency Orlando, Celebration 4

Triological Society/Laryngoscope Editorial Board Meeting  
Tuesday, September 23, 7:00 am - 8:00 am  
Hyatt Regency Orlando, Celebration 5
Triological Society/Laryngoscope TRIO BP Committee  
Monday, September 22, 12:00 pm - 1:00 pm  
Hyatt Regency Orlando, Celebration 5

University of Minnesota: Boies Alumni Reception  
Monday, September 22, 6:00 pm - 9:00 pm  
Hyatt Regency Orlando, Regency Ballroom O

University of Pittsburgh: Department of Otolaryngology Alumni Reception  
Saturday, September 20, 7:00 pm - 9:00 pm  
Hyatt Regency Orlando, Orchid/Verandah Foyer

UT Southwestern Alumni Reception  
Tuesday, September 23, 2014, 6:30 pm – 8:00 pm  
Hyatt Regency Orlando, Regency Ballroom – Booth 420

Vascular Anomalies Task Force Meeting  
Monday, September 22, 5:30 pm - 6:30 pm  
Hyatt Regency Orlando, Silver Spring II

ALUMNI RECEPTIONS

Tuesday night of the Annual Meeting is “Alumni Night.” Receptions for the following colleges, universities, and otolaryngology training centers will be held from 6:30 pm - 8:00 pm in the Hyatt Regency Orlando, Regency Ballroom.

Boston Medical Center: Tufts Medical Center, Booth 118

Cochrane Scholars, Booth 408

CWRU/University Hospitals ENT Institute and Cleveland Clinic Head and Neck Institute, Booth 203

Georgetown University, Booth 418

Loma Linda University Health System: Department of Otolaryngology, Head and Neck Surgery, Booth 320

Louisiana State University, Booth 416

Northwestern Alumni Reception, Booth 402

Southern Illinois University School of Medicine, Booth 128

Stanford University, Booth 330

Temple University, Booth 102

University of Alabama Birmingham, Booth 300

University of California San Francisco, Booth 312

University of Illinois, Booth 124

Universities of Kansas, Missouri, and Nebraska, Booth 324

University of Maryland, Booth 130

University of Michigan, Booth 302

University of Tennessee Health Science Center, Booth 112

University of Texas Medical Branch, Booth 108

University of Toronto, Booth 401

University of Virginia, Booth 410

University of Wisconsin, Booth 116

Washington University, Booth 316

Wayne State University, Booth 308

Yale University, Booth 100
GET SOCIAL @ AAO-HNSF

Connect with your colleagues at the Annual Meeting!

FREE WIFI in the convention center will help you stay connected this week.
(Excluding the OTO EXPO℠)

Network: OTO-2014

Follow Us! @AAOHNS
Tweet about your 2014 Annual Meeting & OTO EXPO℠ experience using #otomtg14.

Check out the AAO-HNS/F Facebook page at facebook.com/AAOHNS to connect with other attendees and share your 2014 Annual Meeting experiences.

Join the members-only group at www.entnet.org/ENTConnect to connect with your peers, participate in timely discussions, and build your Academy community network.

Subscribe to the AAO-HNS/F YouTube Channel at www.entnet.org/youtube for Academy video offerings.

Enjoy Meals in the OTO EXPO℠!

Your full or daily conference registration includes a daily $15 meal voucher in $5 denominations to be redeemed in the OTO EXPO℠, Hall B, during exhibit hours Sunday through Tuesday.
Honorary Guest Lecturers

Rosemary Gibson
John Conley, MD Lecture on Medical Ethics
Sunday, September 21, 8:30 am
Chapin Theater

Richard A. Chole, MD, PhD
AAO-HNSF/International Hearing Foundation/Michael M. Paparella, MD Endowed Lecture for Distinguished Contributions in Clinical Otology
Monday, September 22, 9:30 am
Room 414AB

Professor Sheng-Po Hao, MD
Eugene N. Myers, MD International Lecture on Head and Neck Cancer
Tuesday, September 23, 9:30 am
Room 414AB

Carter Van Waes, MD, PhD
H. Bryan Neel III MD, PhD Distinguished Research Lecture
Wednesday, September 24, 9:30 am
Room 414AB
Opportunities for Residents and Fellows-in-Training

Sunday, September 21

Miniseminar
10:30 am – 11:50 am

Academic Bowl
*Room 414CD*

The Pearls and Pitfalls of Grant Writing: Maximizing Your Funding
*Room 314*

Instruction Course
12:30 pm – 1:30 pm

Financial Planning for Young Physicians
*CME*
*Room 306*

1:45 pm - 3:45 pm

Winning Grants from CORE, NIH, and More
*Room 309A*

Monday, September 22

RESIDENTS DAY!

Miniseminar
10:30 am – 11:50 am

Getting Published: Tips for Residents, Young Physicians, and Practicing Clinicians
*Room 206*

General Assembly
2:30 pm – 4:30 pm

Section for Residents and Fellows-in-Training

General Assembly
*Room 110*

AAO-HNS Career Fair
5:30 pm – 7:30 pm

*Hyatt Regency Orlando, Orlando Ballroom L-M*
## Sunday, September 21

### Day-at-a-Glance

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>AAO-HNS Member Resource Center</strong></td>
<td>7:00 am-6:00 pm</td>
<td>Central Lobby</td>
</tr>
<tr>
<td><strong>Millennium Society Donor Appreciation Lounge</strong></td>
<td>10:00 am-5:00 pm</td>
<td>Room 207</td>
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<tr>
<td><strong>Opening Ceremony</strong></td>
<td>8:30 am</td>
<td>Chapin Theater</td>
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<tr>
<td><strong>Honorary Guest Lecturer</strong></td>
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<tr>
<td><strong>John Conley, MD Lecture on Medical Ethics</strong></td>
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<tr>
<td>Lecturer: Rosemary Gibson</td>
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<tr>
<td><strong>OTO EXPO</strong></td>
<td>10:00 am-5:00 pm</td>
<td>Hall B</td>
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<tr>
<td><strong>Scientific Posters on Display</strong></td>
<td>10:00 am-5:30 pm</td>
<td>Hall C</td>
</tr>
<tr>
<td><strong>Scientific Program</strong></td>
<td>10:30 am-11:50 am</td>
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<tr>
<td><strong>Scientific Oral Presentations: Best of Orals</strong></td>
<td>10:30 am-11:50 am</td>
<td>Room 205</td>
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<tr>
<td><em>Session includes 12 of the highest rated Oral submissions representing all specialty tracks.</em></td>
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<tr>
<td><strong>Instruction Courses</strong></td>
<td>12:30 pm-5:15 pm</td>
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<tr>
<td><strong>Humanitarian Efforts Forum</strong></td>
<td>1:30 pm - 3:30 pm</td>
<td>Room 109A</td>
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<tr>
<td><strong>President’s Reception</strong></td>
<td>6:00 pm-7:30 pm</td>
<td>Hall B</td>
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</tbody>
</table>

- = Audience Polling
- = Hands-on
- = Mini-course
- = Two-hour course
- = Three-hour course
- = Non-CME
10:30 am – 11:50 am

**SCIENTIFIC PROGRAM**

**OTOLOGY/NEUROTOLOGY**

**AAO-HNSF Clinical Practice Guideline: Tinnitus**

*Valencia Ballroom A*

David E. Tunkel, MD (Moderator); Carol A. Bauer, MD; Gordon H. Sun, MD; Richard M. Rosenfeld, MD, MPH

**GENERAL OTOLARYNGOLOGY**

**Academic Bowl**

Supported by the eight Education Committees and the Education Steering Committee

*Room 414CD*

Mark K. Wax, MD (Moderator); Sonya Malekzadeh, MD

**SLEEP MEDICINE**

**Ask the Experts: Sleep Surgery Potpourri**

Supported by the Sleep Disorders Committee

*Valencia Ballroom D*

Michael Friedman, MD (Moderator); Edward M. Weaver, MD, MPH; Kathleen L. Yaremchuk, MD; Erica R. Thaler, MD; B. Tucker Woodson, MD; Eric J. Kezirian, MD, MPH

**HEAD AND NECK SURGERY**

**Beyond Stones: Other Indications for Sialendoscopy**

*Room 203*

M. Boyd Gillespie, MD, MSc (Moderator); David W. Eisele, MD; Barry M. Schaitkin, MD; Rohan R. Walvekar, MD; Arjun S. Joshi, MD; Henry T. Hoffman, MD

**GENERAL OTOLARYNGOLOGY**

**Challenging Cough Cases: A Protocolized Approach**

Supported by the American Laryngological Association (ALA)

*Room 204*

Kenneth W. Altman, MD, PhD (Moderator); John H. Krouse, MD, PhD; Amber U. Luong, MD; Andrew P. Lane, MD; Thomas L. Carroll, MD; Clark A. Rosen, MD

**OTOLOGY/NEUROTOLOGY**

**Cholesteatoma Surgery: An Update**

*Room 414AB*

Timothy T. K. Jung, MD, PhD (Moderator); Derald E. Brackmann, MD; John L. Dornhoffer, MD; Michael J. McKenna, MD; David D. Pothier, MD; Peter S. Roland, MD; Haruo Takahashi, MD
OTOLOGY/NEUROTOLOGY
Current and Developing Management of Single-Sided Deafness (SSD)
Supported by the Implantable Hearing Devices Committee, and the Otology and Neurotology Education Committee
*Room 315*
Jack J. Wazen, MD (Moderator); Sigfrid D. Soli, PhD; Nancy M. Young, MD; John C. Goddard, MD; Bruce J. Gantz, MD; J. Thomas Roland, MD

RHINOLOGY/ALLERGY
Evidence-based Approach to Topical Therapy for Chronic Rhinosinusitis: Snake Oil or Cure?
Supported by the Outcomes Research and Evidence-Based Medicine Subcommittee
*Valencia Ballroom BC*
Greg E. Davis, MD, MPH (Moderator); James N. Palmer, MD; Bradford A. Woodworth, MD; Peter J. Wormald, MD

GENERAL OTOLARYNGOLOGY
Hot Topics for the General Otolaryngologists
*2014 International Webcast*
*Room 312*
J. Pablo Stolovitzky, MD (Moderator); Peter H. Hwang, MD; Brian Nussenbaum, MD; Eric P. Wilkinson, MD

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY
Regional Flaps Accessible to Everyone: Regional Reconstruction Revisited
Supported by the American Head and Neck Society (AHNS)
*Room 206*
Urjeet Patel, MD (Moderator); Matthew M. Hanasono, MD; Jeremy D. Richmon, MD; Gregory K. Hartig, MD; Derrick T. Lin, MD

GENERAL OTOLARYNGOLOGY
The Pearls and Pitfalls of Grant Writing: Maximizing Your Funding
Supported by the CORE Study Section and the Young Physicians Committee
*Room 314*
Cecelia E. Schmalbach, MD (Moderator); Eben L. Rosenthal, MD; Marion E. Couch, MD; Melissa A. Pynnnonen, MD; Jeffrey C. Liu, MD; Maie St. John, MD

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT
The Role of Otolaryngologists in the Accountable Care Organization (ACO): Pros and Cons
Supported by the Medical Informatics Committee
*Room 308CD*
K. J. Lee, MD (Moderator); Subinoy Das, MD; Jane T. Dillon, MD, MBA; David R. Nielsen, MD; Gavin Setzen, MD
SCIENTIFIC ORAL PRESENTATIONS

BEST OF ORALS

Room 205
Moderator: Michael Seidman, MD; Russell Smith, MD

10:30 am  Randomized Treatment Withdrawal of Hypoglossal Nerve Stimulation for Obstructive Sleep Apnea
B. Tucker Woodson, MD; Marion B. Gillespie, MD, MSc; Ho-Sheng Lin, MD; Jonathan Z. Baekin, MD; Tapan A. Padhya, MD; Ryan J. Soose, MD; Nico de Vries, MD, PhD

10:36 am  Dismal Economics: Robot Assisted Surgeries in Otolaryngology
Brian J. McKinnon, MD; Laureen Cantwell, MS

10:42 am  Characteristics of Supraglottitis in Adults
Sharon Ovnat Tamir, MD; Irina Barbalat, MD; Tal Marom, MD; Abraham Goldfarb, MD; Yehudah Roth, MD

10:48 am  The Mayo Clinic Spasmodic Dysphonia Experience: A Demographic Analysis of 686 Patients
Alpen B. Patel, MD; Taylor R. Pollei, MD; Stephen F. Bansberg, MD; Charles H. Adler, MD, PhD; David G. Lott, MD; Lisa R. Crujido, MS

10:54 am  Weight Gain after T&A: A Case Control Study
Travis L. Lewis, MD; Romaine F. Johnson, MD, MPH; Jonathan Choi; Ron B. Mitchell, MD

11:00 am  Functional Outcomes and Quality-of-Life Associated with Cricopharyngeal Myotomy for Cricopharyngeal Dysfunction: A Prospective Study
Kathryn M. Van Abel, MD; Eric J. Moore, MD; Jan L. Kasperbauer, MD; Michael L. Hinni, MD; David G. Lott, MD; Todd H. Baron, MD; Dale C. Ekborn, MD

11:06 am  Efficacy of SPI-1005 for Prevention of Noise Induced Hearing Loss: Phase 2 Clinical Trial Results
Jonathan Kil, MD; Eric D. Lynch, PhD; Scott Griffiths, PhD; Edward Lobarinas, PhD; Christopher Spankovich, PhD; Patrick J. Antonelli, MSc; Colleen Le Prell, PhD

11:12 am  Vestibular Dysfunction in Patients with Enlarged Vestibular Aqueduct
Wade W. Chien, MD; Chris K. Zalewski, PhD; Kelly A. King, PhD; Julie A. Musckett, MS; John A. Butman, MD, PhD; Carmen C. Brewer, PhD; Andrew J. Griffith, MD, PhD

11:18 am  Outcomes in Open Structure Septorhinoplasty: Our Experience
Sunil D. Sharma, MRCS; Tom Jacques, MRCS; Tanik Abed, MRCS; David Gatland, MD

11:24 am  Robust Differences in Distant Metastases for p16 +/- OPSCC: Implications for Future Targeted Therapy
Lauren L. Murrill, MD; James J. Jaber, MD, PhD; Vikas Mehta, MD; Chad A. Zender, MD; Seungwon Kim, MD; Jonas T. Johnson, MD

11:30 am  Long-Term Low-Dose Doxycycline for Difficult-to-Treat Chronic Rhinosinusitis with Polyps
Thiago Bezerra, MD, PhD; Ana C. Soter, MD; Rogerio Pezato; Fabio De Rezende Pinna, MD; Claus Bachert, MD, PhD; Thibuat Van Zele, MD, PhD; Richard L. Voegels, MD, PhD

11:36 am  Ethmoid Drug-Eluting Catheter for Nasosinusial Polyposis: Results After a Randomized Controlled Trial
Guillermo Plaza, MD, PhD; Elizabeth Amarillo Espitia, MD; Estefana Hernandez-Garca, MD; Gustavo Eisenberg, MD; Victoria Garca-Peces, MD; Jose Montejo, MD; Maria Urbanos Pascual, MD
## SUNDAY, SEPTEMBER 21

### INSTRUCTION COURSES

#### Specialty Areas

- **BMP** Business of Medicine/Practice Management
- **CF** Clinical Fundamentals
- **FPRS** Facial Plastic and Reconstructive Surgery
- **GEN** General Otolaryngology
- **HNS** Head and Neck Surgery
- **LBE** Laryngology/Broncho-Esophagology
- **ON** Otology/Neurotology
- **PED** Pediatric Otolaryngology
- **RA** Rhinology/Allergy
- **SM** Sleep Medicine

#### Presentation Formats

- 🎨 = Audience Polling
- 🌼 = Hands-on
- 🌤️ = Mini-course
- 🕒 = Two-hour course
- 🕒 = Three-hour course
- 🌐 = Non-CME

### Clinical Fundamental: Universal Precautions for the Otolaryngologist

- **1505-1** Peggy E. Kelley, MD  
  Room 300  
  **CF**

### Central Compartment Dissection: Why, When, How

- **1507-1** Avi Khafif, MD  
  Jesus E. Medina, MD  
  Room 304AB  
  **HNS**

### Post-Treatment Surveillance and Imaging in Head and Neck SCC

- **1508-1** Eben L. Rosenthal, MD  
  Mark K. Wax, MD  
  William R. Carroll, MD  
  Room 304CD  
  **HNS**

### Controversies in the Management of Thyroid Nodule

- **1510-1** Ashok R. Shaha, MD  
  Room 304GH  
  **HNS**

### Understanding Clinical Practice Guidelines

- **1511-1** Richard M. Rosenfeld, MD, MPH  
  Stephanie L. Jones  
  Room 305  
  **BMP**

### Financial Planning for Young Physicians

- **1512-1** John E. Baumtort, MD, MPH  
  Room 306  
  **BMP**

### Chronic Cough and Other Sensory Disturbances

- **1513-1** Robert W. Bastian, MD  
  Room 307AB  
  **GEN**

### HPV: What the Practicing Clinician Should Know

- **1514-1** Eric M. Genden, MD  
  Room 307CD  
  **GEN**

### Crystal Clear BPPV

- **1515-1** Michael T. Teixido, MD  
  Room 308AB  
  **GEN**

### Tympanoplasty: Medial Graft versus Lateral Graf

- **1517-1** Roberto A. Cueva, MD  
  Rick A. Friedman, PhD  
  Room 309A  
  **ON**

### Improving CPAP Compliance

- **1518-1** Pell Ann Wardrop, MD  
  Room 309B  
  **SM**

### Choanal Atresia Repair Today: Options and Cautions

- **1519-1** Udayan K. Shah, MD  
  Room 310A  
  **PED**
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<thead>
<tr>
<th>Session Time</th>
<th>Session Title</th>
<th>Speakers</th>
<th>Room</th>
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<tbody>
<tr>
<td>1520-1</td>
<td>The ABCs of Hearing Aid Dispensing from A to Z</td>
<td>William M. Luxford, MD, Brad Volkmer, MD</td>
<td>Room 310B</td>
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<tr>
<td>1523-1</td>
<td>Cough: Prepare for Battle</td>
<td>Albert L. Merati, MD, Thomas Murray, PhD</td>
<td>Room 314</td>
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<td>1524-1</td>
<td>Cost-Effectiveness and Comparative Effectiveness in ENT</td>
<td>Mark G. Shrime, MD, MPH, David S. Leonard, MD, MPH</td>
<td>Room 315</td>
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<tr>
<td>1525-1</td>
<td>Evaluation and Management of Swallowing Disorders</td>
<td>Catherine R. Lintzenich, MD</td>
<td>Room 414AB</td>
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<tr>
<td>1526-1</td>
<td>Improved Management of Hypocalcaemia after Thyroidectomy</td>
<td>Jacob P. Noordzij, MD, Ian K. McLeod, MD</td>
<td>Room 414CD</td>
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<tr>
<td>1527-1</td>
<td>Fundamentals of Videostroboscopy</td>
<td>Phillip Song, MD, Ramon A. Franco, MD</td>
<td>Valencia Ballroom A</td>
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<tr>
<td>1528-1</td>
<td>A Practical Approach to Assessment of Dizzy Patients</td>
<td>Steven D. Rauch, MD</td>
<td>Valencia Ballroom BC</td>
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<tr>
<td>1530-1</td>
<td>Reflux Testing in Otolaryngology: What You Need to Know</td>
<td>Joel H. Blumin, MD, Jonathan M. Bock, MD</td>
<td>Chapin Theater</td>
</tr>
<tr>
<td>1501-2</td>
<td>Vocal Nodules, Polyps &amp; Cysts Diagnosis and Current Treatment</td>
<td>Clark A. Rosen, MD, Libby J. Smith, DO</td>
<td>Room 203</td>
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<tr>
<td>1502-2</td>
<td>Professional Singers: The Science and Art of Clinical Care</td>
<td>Robert T. Sataloff, MD</td>
<td>Room 204</td>
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<tr>
<td>1503-2</td>
<td>Phonosurgery: Laser/Micro Instrumentation Do’s and Don’ts</td>
<td>Michael S. Brenninger, MD, Jean Abitbol, MD</td>
<td>Room 205</td>
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<tr>
<td>1504-2</td>
<td>The Ten-Minute Exam of the Dizzy Patient</td>
<td>Joel A. Goebel, MD</td>
<td>Room 206</td>
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<tr>
<td>1506-2</td>
<td>Gussack Memorial: Avoiding Bad Results in Sinus Surgery</td>
<td>Martin J. Citardi, MD, Christopher T. Melroy, MD, Scott M. Graham, MD</td>
<td>Room 303</td>
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<tr>
<td>1509-2</td>
<td>Chronic Ear Disease: Surgical Decisions and Techniques</td>
<td>David S. Haynes, MD, George B. Wanna, MD, Alejandro Rivas, MD</td>
<td>Room 304EF</td>
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<tr>
<td>1516-2</td>
<td>Medical Strategies for Treatment of Refractory Sinusitis</td>
<td>Pete S. Batra, MD, Donald C. Lanza, MD, Bradley F. Marple, MD, Samer Fakhri, MD</td>
<td>Room 308CD</td>
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<tr>
<td>1521-2</td>
<td>Innovations in Laryngeal Surgery</td>
<td>Steven M. Zeitels, MD</td>
<td>Room 312</td>
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<td>1522-2</td>
<td>Integrating Oral Appliances into Your Sleep Apnea Practice</td>
<td>Ofer Jacobowitz, MD, PhD, Michael Friedman, MD</td>
<td>Room 313</td>
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<tr>
<td>1529-2</td>
<td>Head and Neck Surgery Review Course</td>
<td>Richard V. Smith, MD, Dennis H. Kraus, MD, Joseph Scharpf, MD, Bradley A. Schiff, MD</td>
<td>Valencia Ballroom D</td>
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<td>Time</td>
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<tr>
<td>1:45 pm - 2:45 pm</td>
<td>Clinical Fundamental: Management of the Addicted Surgeon</td>
<td>Peter S. Roland, MD</td>
<td>Room 300</td>
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<tr>
<td></td>
<td>Non-Melanoma Skin Cancer Concepts and Case Studies</td>
<td>Brian A. Moore, MD and Matthew M. Hanazono, MD</td>
<td>Room 304AB</td>
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<td></td>
<td>Advances in the Management of Papillary Thyroid Cancer</td>
<td>Robert L. Witt, MD</td>
<td>Room 304CD</td>
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<td>Sialendoscopy: Getting Started, Solving Problems</td>
<td>Barry M. Schaitkin, MD and Ricardo Carrau, MD</td>
<td>Room 304GH</td>
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<td>Incisionless Otoplasty</td>
<td>Michael H. Fritsch, MD</td>
<td>Room 305</td>
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<td>Evaluation and Management of Oral Malodor, 2014</td>
<td>Yosef J. Krepski, MD and Victor Z. Kizhner, MD</td>
<td>Room 306</td>
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<td>Mastoid Obliteration Techniques and Results</td>
<td>John L. Donehoffer, MD and Michael B. Gluth, MD</td>
<td>Room 307AB</td>
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<td>Angioedema: Review for the Otolaryngologist</td>
<td>Marcus W. Moody, MD</td>
<td>Room 307CD</td>
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<td>3-D Projected Stereoscopic Anatomy of the Temporal Bone</td>
<td>Michael T. Teixido, MD</td>
<td>Room 308AB</td>
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<td>Clinical Evaluation of Balance Disorders in Children</td>
<td>Robert C. O’Reilly, MD</td>
<td>Room 310B</td>
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<td>Sphenoid Pathology and Approaches to the Sphenoid Sinus</td>
<td>Richard J. Harvey, MD and Rodney J. Schlosser, MD</td>
<td>Room 314</td>
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<td>To Operate or Not To: How to Approach the Older Patient</td>
<td>Ozlem E. Tulunay-Ugur, MD and David R. Edelstein, MD</td>
<td>Room 315</td>
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<td>Pulsatile Tinnitus: Advances in Diagnosis and Management</td>
<td>Aristides Sismanis, MD and Daniel H. Coelho, MD</td>
<td>Room 414AB</td>
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<td>Common Causes of Hoarseness that are Commonly Missed</td>
<td>Jacob P. Noordzij, MD and Seth M. Cohen, MD</td>
<td>Room 414CD</td>
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<td>Ear Pressure and Pain</td>
<td>William H. Slattery, MD and Eric P. Wilkinson, MD</td>
<td>Valencia Ballroom A</td>
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<td></td>
<td>Surgical Management of Eustachian Tube Disorders</td>
<td>Dennis P. Poe, MD and Ralph B. Metson, MD</td>
<td>Valencia Ballroom BC</td>
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<td>Management Congenital Aural Atresia Acquired Canal Stenosis</td>
<td>Paul R. Lambert, MD</td>
<td>Chapin Theater</td>
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</table>
1:45 pm - 3:45 pm

 Winning Grants from CORE, NIH and More
1617-2 Cherie Ann O Nathan, MD  Room 309A
Robert L. Ferris, MD
Alan G. Cheng, MD
Andrew P. Lane, MD

Optimal Surgical Strategies for Treating Facial Paralysis
1618-2 David B. Horn, MD  Room 309B
Ravi N. Samy, MD

Optimizing EHRs for the Otolaryngologist
1619-2 James Lin, MD  Room 310A
Joe W. Kutz, MD
Brandon Isaacson, MD

3:00 pm - 4:00 pm

 Portable Sleep Testing in Clinical Practice: A New Era
1701-1 B. Tucker Woodson, MD  Room 203
Stacey L. Ishman, MD, MPH

Clinical Fundamental: Ethics and Professionalism
1705-1 Roger D. Cole, MD  Room 300
Andrew G. Shuman, MD
Susan R. Cordes, MD

Current Management of Oropharyngeal Cancer
1707-1 Bradley A. Schiff, MD  Room 304AB

Minimally Invasive Surgery for Salivary Tumors and Stones
1708-1 Robert L. Witt, MD  Room 304CD
Urban W. Geisthoff, MD

Surgical Management of the Central Neck in Thyroid Cancer
1709-1 Ralph P. Tufano, MD  Room 304EF
David L. Steward, MD

Parathyroid Surgery: What Head and Neck Surgeons Should Know
1710-1 David James Terris, MD  Room 304GH
Gregory W. Randolph, MD

Management of Septal Perforations
1711-1 Stephen F. Bansberg, MD  Room 305

Functional Reconstruction of the Oral Cavity and Oropharynx
1712-1 Gregory K. Hartig, MD  Room 306
Ara A. Chalian, MD

Techniques in Cartilage Tympanoplasty
1713-1 John L. Dornhoffer, MD  Room 307AB
Konrad Schwager, MD

The HPV Epidemic and Oropharyngeal Cancer
1714-1 James W. Rocco, MD, PhD  Room 307CD
Derrick T. Lin, MD

Workup and Management of Paranganglioma Space Tumors
1715-1 James L. Netterville, MD  Room 308AB
Alexander Langerman, MD

Contemporary Endoscopic Management of Inverted Papilloma
1716-1 Pete S. Batra, MD  Room 308CD

Pediatric Sensorineural Hearing Loss Update 2014
1722-1 Albert H. Park, MD  Room 313
John Germiller, MD, PhD

Ossiculoplasty
1723-1 Edwin M. Monsees, MD  Room 314
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<th>Time</th>
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<tr>
<td>3:00 pm - 5:00 pm</td>
<td>Management of Airway Obstruction in Neonates</td>
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<td>Pediatric Otolaryngology for the Office-Based Practitioner</td>
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<td>Chronic Otitis Media: Ear Surgery</td>
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<td>4:15 pm - 5:15 pm</td>
<td>Structure Approach to Rhinoplasty: A Comprehensive Update</td>
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<td>Comprehensive Management: Pediatric Supraglottic Conditions</td>
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<td>Clinical Fundamental: Pain Management in Head and Neck Surgery</td>
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<td>Technique to Simplify Myringoplasty</td>
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</table>

**Precise Surgical Localization of Cranial Nerves**
1724-1 Mimi S. Kokoska, MD
Jeffrey M. Bumpous, MD
Room 315
HNS

**Top Tips in Pediatric Tympanomastoid Surgery**
1725-1 Adrian L. James, MD
Blake G. Papsin, MD
Room 414AB
ON

**Hydroxyapatite and Titanium Ossicle Implants**
1726-1 Robert Battista, MD
Rex S. Haberman, MD
Room 414CD
ON

**Surgical Anatomy of the Paranasal Sinuses**
1727-1 Brent A. Senior, MD
Valencia Ballroom A
RA

**Bone-Anchored Hearing Devices: New Rehabilitative Options**
1728-1 John K. Niparko, MD
Mans Eg-Olofsson, PhD
Charles Link, MD
Valencia Ballroom BC
ON

**Current Advances In Otitis Media**
1729-1 Joseph Kerschner, MD
Valencia Ballroom D
PED

**Classification of Cholesteatoma: Surgical Strategy**
1730-1 Jose N. Fayad, MD
Bernard G. Fraysse, MD
Chapin Theater
ON

**Management of Airway Obstruction in Neonates**
1702-2 David R. White, MD
Christopher Discolo, MD
James D. Sidman, MD
Michael J. Rutter, MD
Room 204
PED

**Pediatric Otolaryngology for the Office-Based Practitioner**
1703-2 Ian N. Jacobs, MD
David E. Tunkel, MD
Room 205
PED

**Chronic Otitis Media: Ear Surgery**
1704-2 Derald E. Brackmann, MD
William M. Luxford, MD
Rick A. Friedman, PhD
Room 206
ON

**An Endoscopic Approach to Tumors of the Infra-Temporal Fossa**
1706-2 Peter J. Wormald, MD
Simon Robinson, MD
Rowan Valentine, MBBS
Room 303
RA

**Medicolegal Issues for ENTs: Top 10 Concerns**
1720-2 Winston C. Vaughan, MD
Ankit Patel, MD
Thomas Still, JD
Room 310B
BMP

**Structure Approach to Rhinoplasty: A Comprehensive Update**
1721-2 Dean M. Toriumi, MD
Room 312
FPRS

**Comprehensive Management: Pediatric Supraglottic Conditions**
1801-1 Dana M. Thompson, MD
Gresham T. Richter, MD
Room 203
PED

**Clinical Fundamental: Pain Management in Head and Neck Surgery**
1805-1 John Sok, MD, PhD
Christopher Oliver, MD
Room 300
CF

**Technique to Simplify Myringoplasty**
1807-1 Masafumi Sakagami, MD
Yu Xuasa, MD
Room 304AB
ON
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<tr>
<td>1808-1</td>
<td>Pediatric Airway 101</td>
<td>Robin T. Cotton, MD</td>
<td>PED</td>
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<tr>
<td>1809-1</td>
<td>Hyperparathyroidism Pearls and Pitfalls Work-Up and Management</td>
<td>David L. Steward, MD</td>
<td>HNS</td>
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<tr>
<td>1810-1</td>
<td>Avoiding Disaster in Thyroid Surgery: Five Critical Principles</td>
<td>David J. Terris, MD</td>
<td>HNS</td>
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<tr>
<td>1811-1</td>
<td>What's New About Nonsurgical Therapies of Salivary Stones</td>
<td>Michael H. Fritsch, MD</td>
<td>GEN</td>
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<td>1812-1</td>
<td>Errors in Otolaryngology: Where Can We Go Wrong</td>
<td>Rahul Shah, MD</td>
<td>BMP</td>
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<tr>
<td>1813-1</td>
<td>Office Dysphagia Consult: Diagnosis, Management, and Coding</td>
<td>Jonathan E. Aviv, MD</td>
<td>LBE</td>
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<td>1814-1</td>
<td>Laryngeal Electromyography</td>
<td>Glendon M. Gardner, MD</td>
<td>LBE</td>
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<td>1815-1</td>
<td>Intratympanic Pharmacotherapy for Inner Ear Disorders</td>
<td>Lorne S. Parnev, MD</td>
<td>ON</td>
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<td>1816-1</td>
<td>Understanding Olfactory Disorders</td>
<td>Eric H. Holbrook, MD</td>
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<td>1817-1</td>
<td>Salvage Nasopharyngectomy for RNPC</td>
<td>Sheng-Po Hao, MD</td>
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<td>1818-1</td>
<td>Fiber-Based Lasers in Laryngeal Surgery: Office and OR</td>
<td>James A. Burns, MD</td>
<td>LBE</td>
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<td>1819-1</td>
<td>Recognizing Neurological Voice Problems</td>
<td>Philip Song, MD</td>
<td>LBE</td>
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<td>1822-1</td>
<td>Loco-Regional Flaps in Head and Neck Reconstruction</td>
<td>Niels C. Kokot, MD</td>
<td>FPRS</td>
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<td>1823-1</td>
<td>Recurrent Respiratory Papillomas: Update 2014</td>
<td>Craig S. Derkay, MD</td>
<td>PED</td>
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<td>1824-1</td>
<td>Discussing HPV-Head and Neck Cancer: Diagnosis and Beyond</td>
<td>Carole Faikryy, MD</td>
<td>HNS</td>
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<tr>
<td>1825-1</td>
<td>Sinus Headache, Migraine, and the Otolaryngologist</td>
<td>Mark Meleh, MD</td>
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<tr>
<td>1826-1</td>
<td>A Practical Approach to Making Ethical Clinical Decisions</td>
<td>Charles F. Koopmann, MD</td>
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<tr>
<td>1827-1</td>
<td>The Frontal and Sphenoid Sinuses: Tips in Endoscopic Surgery</td>
<td>Timothy L. Smith, MD</td>
<td>RA</td>
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<tr>
<td>1828-1</td>
<td>Complications of Adenotonsillectomy in Children</td>
<td>Charles M. Myer III, MD</td>
<td>PED</td>
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<tr>
<td>1829-1</td>
<td>Cochlear Implantation: Emphasis on Hearing Preservation</td>
<td>Ravi N. Sarre, MD</td>
<td>ON</td>
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<tr>
<td>1830-1</td>
<td>Another Five Landmarks to Make You an Even Better Sinus Surgeon</td>
<td>Ralph B. Metson, MD</td>
<td>RA</td>
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Monday, September 22

**Day-at-a-Glance**

**AAO-HNS Member Resource Center**
7:30 am-5:30 pm, Central Lobby

**Millennium Society Donor Appreciation Lounge**
7:00 am-5:00 pm, Room 207

**Scientific Posters on Display**
7:30 am-5:30 pm, Hall C

**View from the Editors Breakfast**
7:00 am-8:00 am, Hyatt Regency Orlando, Regency Ballroom O

**OTO EXPO**
8:00 am-5:00 pm, Hall B

**Scientific Program**
8:00 am-11:50 am

**AAO-HNSF/International Hearing Foundation/Michael M. Paparella, MD Endowed Lecture for Distinguished Contributions in Clinical Otology**
*Lecturer: Richard A. Chole, MD, PhD*
9:30 am, Room 414AB

**Women in Otolaryngology Section Luncheon and General Assembly**
12:00 pm-2:00 pm, Room 110

**Instruction Courses**
12:30 pm-5:15 pm

**Section for Residents and Fellows-in-Training General Assembly**
2:30 pm-4:30 pm, Room 110

**Board of Governors General Assembly**
5:00 pm-7:00 pm, Room 109B

**AAO-HNS Career Fair**
5:30 pm-7:30 pm, Hyatt Regency Orlando, Orlando Ballroom L&M

**Otolaryngology Historical Society Meeting**
6:30 pm-8:30 pm, Hyatt Regency Orlando, Orlando Ballroom N

**Entellus Medical Corporate Symposium**
“Live Case Broadcast and Dinner – Balloon Sinus Dilation”
6:00 pm-8:00 pm, Hyatt Regency Orlando, Regency Ballroom U & V

**Intersect ENT Corporate Symposium**
“Advancing Sinus Surgery with Steroid-Eluting Implants”
6:30 pm-8:30 pm, Hyatt Regency Orlando, Regency Ballroom P & Q

**Teva Respiratory Corporate Symposium**
“Advances in Aerosol Therapy for Patients with Allergic Rhinitis”
6:30 pm – 8:30 pm, Hyatt Regency Orlando, Regency Ballroom T
Join us for the 2014 Otolaryngology Historical Society

Monday, September 22
6:30 pm—8:30 pm
Hyatt Regency Orlando, Orlando Ballroom N

Don’t miss this opportunity to be part of history. Join Marc D. Eisen, MD, PhD, OHS President, and members of the History and Archives Committee for an elegant evening of fellowship.

- Hear and discuss interesting historical papers
- Network with your colleagues in a unique setting
- Reflect on the impact and relevance of notable contributions to our specialty

The program features speakers on a variety of historical topics:

Marc R. Eisen, MD, PhD
President, Otolaryngology Historical Society
Welcome and Introductions

Robert Jackler, MD
Stanford University, Stanford, CA
“Otolaryngology—it’s all Greek to me.”

Jennifer Xu and Andrew G. Shuman, MD
University of Michigan, Ann Arbor, MI
“Soothing and Balmy, Cure without Disfigurement”

Adam Van Horn, BA
Marshall University, WV
“History of Otoscopy”

Kenneth H. Brookler, MD
Norwalk, CT
“Is ‘Otosclerosis’ a Misnomer?”

An informal reception follows.

*After the meeting, a shuttle bus will return guests to their hotels on the official shuttle route. The event is free to OHS members; members may bring guests at $85 per guest, and non-members pay $85. Make your reservation payment at the Member Resource Center, Central Lobby, no later than Monday, September 22, 2:00 pm.

OHS members are encouraged to sponsor a resident as their guest to introduce them to the rich history of the specialty.
The AAO-HNS Career Fair, hosted by ENT Careers and the HEALTHeCAREERS Network provides the opportunity for candidates in all subspecialties and levels of training to speak face-to-face with hiring representatives. HEALTHeCAREERS is the only true single source for all of your healthcare recruitment needs, providing unparalleled access to jobseekers across all disciplines and specialties. Employers can leverage this opportunity to personally engage with numerous qualified job seekers at one time. Job seekers should visit HEALTHeCAREERS to register and upload your resume at www.healthecareers.com/aaohns! Employers should visit ENT Careers Live! at Booth 1671 to take full advantage of the emerging talent.

Electronic Devices and Recording Equipment

All cell phones and cameras must be turned off during sessions. Recording of any kind is prohibited at all education activities, events, and the OTO EXPO®.
### SCIENTIFIC PROGRAM

**MONDAY**

#### 7:00 am – 8:00 am

**GENERAL OTOLARYNGOLOGY**

*View from the Editors: Peer Review, Publishing, and the Editorial Process*

*Hyatt Regency, Regency Ballroom O*

Michael G. Stewart, MD, MPH (Moderator); Richard M. Rosenfeld, MD, MPH; Paul A. Levine, MD; David W. Kennedy, MD; Ehab Y. N. Hanna, MD; Robert T. Sataloff, MD; Rakesh K. Chandra, MD; John K. Niparko, MD; Dennis H. Kraus, MD; Robert J. Ruben, MD; Alexander G. Chiu, MD

#### 8:00 am - 9:20 am

**PEDIATRIC OTOLARYNGOLOGY**

*AAO-HNSF: A Clinical Consensus Statement on Pediatric Recurrent and Chronic Rhino-Sinusitis*

*Room 414CD*

Scott E. Brietzke, MD, MPH (Moderator); Richard M. Rosenfeld, MD, MPH; Jennifer J. Shin, MD

**LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY**

*Clinical Dilemmas: The Radiated Larynx*

*Room 312*

Albert L. Merati, MD (Moderator); Andrew J. McWhorter, MD; Michael M. Johns, MD; Jan Pryor; Clint T. Allen, MD

**SLEEP MEDICINE**

*Controversies in Management of the Nasal Airway and Sleep Disorders*

Supported by the Sleep Disorders Committee

*Valencia Ballroom D*

B. Tucker Woodson, MD (Moderator); Brian Rotenberg, MD; Ryan J. Soose, MD; Michael Friedeman, MD; Stacey L. Ishman, MD, MPH

**HEAD AND NECK SURGERY**

*Special Topic: Controversies in Robotic Surgery*

*Room 206*

Eric M. Genden, MD (Moderator); Eric J. Moore, MD; David P. Pfister, MD; Margaret Brandwein-Gensler, MD; Brian O’Sullivan, MD

**RHINOLOGY/ALLERGY**

*Food Allergy 2014: State of the Science*

Supported by the Allergy, Asthma, and Immunology Committee

*Room 414AB*

William R. Reisacher, MD (Moderator); Karen H. Calhoun, MD; Cecelia Damask, MD; Maria C. Veling, MD
MONDAY, SEPTEMBER 22

RHINOLOGY/ALLERGY

Major Complications in FESS: Tips from Expert Surgeons
Chapin Theater
Marc A. Tewfik, MD (Moderator); Peter J. Wormald, MD; Peter H. Hwang, MD; Ricardo Carrau, MD; Richard Douglas, MD; Rowan Valentine, MBBS

ENDOCRINE SURGERY

New and Emerging Concepts in Parathyroid Surgery
Supported by the Endocrine Surgery Committee
Valencia Ballroom A
David James Terris, MD (Moderator); Ralph P. Tufano, MD; Michael C. Singer, MD; Jeffrey M. Bumpous, MD

OTOLOGY/NEUROTOLOGY

Sudden Hearing Loss: Evidence-based Management and the Latest in Research
Valencia Ballroom BC
Sujana S. Chandrasekhar, MD (Moderator); James E. Saunders, MD; Andrea Vambutas, MD; Seth R. Schwartz, MD

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY

Surgical Management of the Patient with Facial Paralysis
Supported by the American Academy of Facial Plastic and Reconstructive Surgery (AAFPRS)
Room 314
Mark K. Wax, MD (Moderator); Eben L. Rosenthal, MD; Fred G. Fedok, MD; Tom D. Wang, MD

OTOLOGY/NEUROTOLOGY

Temporal Bone Radiology: Beyond the Basics Audience Polling
Room 315
Ashkan Monfared, MD (Moderator); M. Reza Taheri, MD, PhD; Richard K. Gurgel, MD; Nikolas H. Blevins, MD; Robert K. Jackler, MD

Scientific Oral Presentations: General Otolaryngology
Room 205
Moderator: Philip A. Harris, MD; Christine B. Franzese, MD

8:00 am Vestibulo-Ocular Reflex (VOR) Impact on USAF Undergraduate Pilot Training Proficiency
Paul C. Johnson IV, MD; David G. Schall, MD; Jeffrey A. Sorensen, MD; Kenneth W. Stephens

8:06 am Applicant Opinions of Task Simulation Exercises as Part of the Otolaryngology Resident Interview Process
John P. Giliberto, MD; Charles M. Myer IV, MD; Brian Lee Hendricks, MD; Charles M. Myer III, MD

8:12 am Simulation Activity in Otolaryngology Residencies
Ellen S. Deutsch, MD; Gregory J. Wiet; Mary Pat Cornett; Heather M. Hussey, MPH; Sonya Malekzadeh, MD; Marvin P. Fried, MD; Michael D. Seidman, MD

8:18 am Google Glass in Head and Neck Surgery
Matthew J. Lutch, MD; Ajay Kohli; Daniel Cates, MD; Allen Lue, MD
8:24 am Ten Steps to Develop Patient Education Videos for Individuals of all Health Literacy Levels
Aroo G. Saffarzadeh; Sunil P. Verma, MD

8:30 am Inclusion of Otolaryngology in Medical Student Education: A National Survey
Stacey L. Ishman, MD, MPH; C. Matthew Stewart, MD, PhD; Rosalyn W. Steward, MD, MBA; James Stanley; James R. Benke; David E. Kern, MD; Timothy P. Ryan, MD

8:36 am Predictors of Initial Technical Skill Acquisition in Otorhinolaryngology Residency Applicants
Ernest D. Gomez, MD; Andres Bur, MD; Steven J. Eliades, MD; Jonathan M. Lee, MD; James J. Kearney, MD; Michael J. Ruckenstein, MD

8:42 am The Quality of Economic Evaluations in the Otolaryngology Literature
C. C. Liu, MD; Justin T. H. Lui; Elizabeth Oddone Paolucci, PhD; Luke Rudmik, MD

8:48 am Medical Malpractice in Sinonasal Disease: An Analysis of Litigation Over the Last Ten Years
Tyler W. Winford, MD; Jordan L. Wallin, MD; John D. Clinger, MD; Aaron M. Graham, JD

8:54 am An Innovative Smartphone-Based Rhinendoscope
Cheng Jung Wu, MD; Sheng Yu Wu, MS; Yaoh Shiang Lin, MD

9:00 am Cleft Repair: Medical Mission Trips vs. Empowering Local Surgeons in Developing Countries
Courtney Opsahl; James D. Sidman, MD

9:06 am Validation Study on Intra-Operative Video Recording as an Objective Assessment Tool in ENT Surgery
Philippe F. de Z. Bowles, MRCS; Prodip Das, MD; John Philip Fraser Young, MBBS; Nicholas Saunders, MD; Mereydydd Lloyd Harries; Jason Fleming, MRCS

Scientific Oral Presentations: Laryngology/Broncho-Esophagology
Room 204
Moderator: Emiro Caicedo-Granados, MD; Albert L. Merati, MD

8:00 am Voice Outcomes Following Laser Surgery or Radiotherapy for T1 Glottic Cancer: Systemic Review and Meta-Analysis
Matthew T. Greulich, MD; Noah P. Parker, MD; Phil Lee; Albert L. Merati, MD; Stephanie Misono, MD

8:06 am Increased Macrophages and T-Lymphocytes Precede Fibrosis in a Mouse Model of Laryngotracheal Stenosis
Alexander T. Hillel, MD; Dacheng Ding, MD, PhD; Daryan Namba

8:12 am Laryngeal Reinnervation with Refined Nerve-Muscle Pedicle Implantation Using Electromyography and Coronal Reconstructed Images
Tetsuji Sanuki, MD, PhD; Eiji Yumoto, MD, PhD; Kohei Nishimoto, MD, PhD; Haruka Kodama, MD; Ryosei Minoda, MD, PhD

8:18 am Prevalence and Impact of Swallowing Disorders Among United States Adults
Neil Bhattacharyya, MD

8:24 am New Algorithm for Supraglottitis Staging in Adults
Tal Marom, MD; Sharon Ovatam Tamir, MD; Irina Barbalat, MD; Yehudah Roth, MD

8:30 am Extraesophageal Reflux in Patients Undergoing General Endotracheal Tube Anesthesia
Elliott Regenbogen, MD; Slawomir P. Olekszak, MD; Thomas Corrado, MD; Annie Laurie Shroyer, PhD; Jordan Goldstein, MD; Mark Marzouk, MD; Michael L. Pearl, MD
8:36 am  **Office-Based Photoangiolytic Laser Treatment of Reinke's Edema: Safety and Voice Outcomes**  
Ian J. Koszewski, MD; Matthew R. Hoffman, PhD; William Gregory Young, MD; Seth H. Dailey, MD

8:42 am  **Rehabilitation of Swallowing Functions by a New Concept of Intralaryngeal Prostheses**  
Philippe Schultz, MD, PhD; Agnas Dupret-Bories, MD, PhD; Engin Vrana, PhD; Sophie Riehm, MD; Florence Guillere, PhD; Philippe Lavalle, PhD; Christian Debruy, MD, PhD

8:48 am  **Microsurgical Release of the Cover and Fibrin Glue Implantation for Treatment of Sulcus and Scars**  
Guillermo Campos, MD; Natalia Mantilla, MD; Javier Andras Ospina, MD

8:54 am  **Thyroid Cartilage Implantation for Unilateral Vocal Fold Paralysis: Voice Assessment and Surgical Outcomes**  
Cheng-Ming Hsu, MD

9:00 am  **Redesign of the Microsurgical Interface with a Novel, Computer-Assisted “Virtual Microscope” System in Laser Phonomicrosurgery**  
Luca Guastini, MD; Leonardo Matos, PhD; Nikhil Deshpande, PhD; Jesas Ortiz, PhD; Francesco Mora, MD; Giorgio Peretti, MD

9:06 am  **Effects of Effortful Swallow on Esophageal Function in Patients with Presumed Esophageal Motility Disorders**  
Eleanor P. Kiell; Catherine R. Lintzenich, MD

**Scientific Oral Presentations: Otology/Neurotology**  
Room 203

Moderator: Patrick J. Antonelli, MD, MSc; Mark J. Syms, MD

8:00 am  **Novel Radiographic Measurement Algorithm Demonstrating a Link between Obesity and Lateral Skull Base Attenuation**  
Shawn M. Stevens, MD; Wesley McIlwain; Habib Rizk, MD, MBS; Shaun A. Nguyen, MD; Paul R. Lambert, MD; Ted A. Meyer, MD

8:06 am  **Efficacy of Common Reagents for Killing Ticks in the Ear Canal**  
Nickolas C. Orobello; Carolyn P. Ojano-Dirain, PhD; Phillip E. Kaufman, PhD; Patrick J. Antonelli, MD, MSc

8:12 am  **Learning Curves of Syllabus Otological Procedures: Monitoring Trainees’ Progress and Understanding Competence**  
Zaid Awad, MD; Lindsay Hayden; Keerthini Muthuswamy; Paul Ziprin, MD; Ara Darzi; Neil S. Tolley, MD

8:18 am  **Growth Factor Delivered by a Bioabsorbable Polymer as Treatment for Chronic Tympanic Membrane Perforations**  
Peter L. Santa Maria, MD, PhD; Sungwoo Kim; Kursad Varsak, MD; Yunhzi P. Yang, PhD

8:24 am  **Preoperative Systemic Antimicrobial Prophylaxis in Contaminated Middle Ear Surgery for Cholesteatoma**  
Nathan Pierce, MD; Patrick J. Antonelli, MD, MSc

8:30 am  **Hearing Loss in Patients with Inflammatory Bowel Disease (IBD)**  
Chanan Shaul, MD; Benjamin Koolowski, MD; Uri Peleg, MD; Menahem Gross, MD; Dow Wongrower, MD

8:36 am  **Long-term Result of Combined Heermann and Tos Technique in Cholesteatoma Surgery**  
Cem Uzun, MD; Recep Yagiz, MD; Mehmet Turgay Tarkmen, MD

**WITHDRAWN**
8:36 am  Ossicular Erosion and Air-Bone Gap in Attic and Tensa Cholesteatomas
Sady S. Da Costa, PhD; Leticia Schmidt Rosito, MD; Inesangela Canali, MD; Fabio Andrea Selaimen; Yuri Petermann Jung; Marcos Guilherme Tibaes Pauletti; Luiza A. Freitas, MS

8:42 am  Audiological Evaluation of the Contralateral Ear in Patients with Cholesteatoma
Sady S. Da Costa, PhD; Leticia Schmidt Rosito, MD; Inesangela Canali, MD; Luciana Netto; Larissa Petermann Jung; Marcos Guilherme Tibaes Pauletti; Andre D. Ronchi

8:48 am  Total Ossiculoplasty Outcomes With and Without a Stapes Footplate Prosthesis
Matthew D. Cox, MD; John L. Domhoffer, MD

8:54 am  Long-Term Results of Adult Cholesteatoma Surgery Using Canal-Wall-Down Approach with Primary Obliteration: Five-Year Observational Study
Aaron Trinidad, MD; Matthew Yung, MD

9:00 am  Minimally Invasive Repair of Posterior-Superior Retraction Pockets in Children with Lysis of Middle Ear Adhesions
Laura Neff, MD; Dennis S. Poe, MD; Wei-Chieh Chao, MD

9:06 am  Canal Wall Reconstruction Tympanomastoidectomy with Mastoid Obliteration: Outcomes in Smokers
Patrick C. Buchanan, DO; Justin S. Golub, MD; Ravi N. Samy, MD

9:30 am - 10:20 am

RHINOLOGY/ALLERGY

AAO-HNSF Clinical Practice Guidelines: Allergic Rhinitis
Valencia Ballroom BC
Michael D. Seidman, MD (Moderator); Richard K. Gurgel, MD; Sandra Y. Lin, MD; Seth R. Schwartz, MD

PEDIATRIC OTOLARYNGOLOGY

SSAC Spotlight Series: Button Battery Injuries—2014 Task Force Update
Supported by the Specialty Society Advisory Committee, American Broncho-Esophagological Association (ABEA), and American Academy of Pediatrics (AAP)
Room 315
Ian N. Jacobs, MD (Moderator); Kris R. Jatana, MD; Toby Litovitz, MD; Kenneth P. Boyce

Scientific Oral Presentations: Business of Medicine/Practice Management
Room 203
Moderator: H. Peter Doble II, MD; Douglas K. Trask, MD, PhD

9:30 am  Pediatric Anesthesiologists Increase Operating Room Efficiency for Pediatric Adenotonsillectomies
Nicholas Dewyer, MD; Marika Russell, MD

9:36 am  Improving Patient Satisfaction in the Outpatient Otolaryngology Clinic
Quinn T. Orbo; Kevin F. Wilson, MD; Jeremy D. Meier, MD; Marc E. Error, MD; Steven Johnson, MBA; Preston D. Ward, MD

9:42 am  Bridging the Generation Gap: The Reality of EMR Implementation
Laura R. Garcia-Rodriguez, MD; Michael C. Singer, MD; Alvin B. Ko, MD
Incorporating Lean Six Sigma Training within an Otolaryngology Residency Program
Brian C. Lobo, MD; Kim Johnson, PhD; Todd J. Wannemuehler, MD; Bruce H. Matt; Heather K. Woodward-Hagg; Taha Z. Shipchandler, MD; Mimi S. Kokoska, MD

Variables for Repeated “No Showing” to Clinic Appointments
Anya J. Miller, MD; Esther Chae; Alvin B. Ko, MD

State of the Otolaryngology Match: Has Competition Increased Since the “Early” Match?
Mona M. Abaza, MD; Cristina Cabrera-Muffly, MD

Experience in Training ICU Nurses to Perform Free Flap Monitoring to Accommodate Work Hour Restrictions
Samir S. Khariwala, MD; Bevan Yueh, MD

Development of National Guidelines for Office Based Otolaryngology Procedures
Praby Singh, MD; Yosef P. Krepsi, MD

Scientific Oral Presentations: Facial Plastic Surgery and Reconstructive Surgery
Room 204
Moderator: Jennifer C. Kim, MD; Matthew M. Hanasono, MD

Diode Laser for the Treatment of Telangiectasias Following Hemangioma Involution
Eric W. Cerrati, MD; Teresa M. O, MD; Milton Waner, MD

Secondary Rhinoplasty
Ibrahim Y. Elachkar, MD

Safety of Topical Mitomycin C after Keloid Excision: A Pilot Study
Virginia P. Teti, MD; Michelle F. Liu, MD, MPH; Alan A. Lim, MD; Benjamin W. Cilento, MD; Thomas G. Gallagher, DO

Reconstruction of Parotidectomy Defects
Jessica J. Peck, MD; Daniel Petrisor, MD; Steven B. Cannady, MD; Mark K. Wax, MD

A Study of Aesthetic Outcomes of Primary Rhinoplasty in Crooked Nose Deformity
Samar Pal S. Yadav, MD; Joginder Singh Gulia, MD; Arpit Aggrwal

A Step-Ladder Protocol to Treat Cervico Facial Venous Malformations
Giacomo Colletti, MD; Marco Mandala, MD; Alice Frigerio, MD, PhD; Laura Moneghini, MD; Fabio Melchiorre, MD; Fredrik J. Grimmer, MD

The Furnas-Mustarde Combination Technique for the Treatment of the Prominent Pinna: Our 17-Year Experience
Javier Moraleda Deleito, MD; Rishi Talwar, MD; Francisco Garcia-Pumias, MD, PhD; Alberto Guillen, MD; Lorena Delvasto, MD; Andres Barrios, MD

Grafts are Superior to Sutures for Nasal Tip Projection: A Meta-Analysis of Goodes Ratio
Eric Cole, MD; Angelia Natili, MD

Scientific Oral Presentations: General Otolaryngology
Room 205
Moderator: Philip A. Harris, MD; Suman Golla, MD

Effect of Symbiotic Treatment in Patients with Recurrent Aphthous Stomatitis
Maria Mimura, DDS; Oleenice Hitomi Watashi Hirata, MD, PhD; Ricardo Carneiro Borra, PhD; Norma Oliveira Penido
National Trends and Associated Factors of Retropharyngeal Abscess Among Adult Inpatients with Peritonsillar Abscess
Hannan A. Qureshi; Bruce K. Tan, MD; Rakesh K. Chandra, MD; Robert C. Kern, MD; Stephanie S. Smith, MD, MSc

Signs and Symptoms Predictive of Airway Involvement in Angioedema
Eugenie Du, MD; Samuel N. Helman; Patricia A. Loftus, MD; Gunj Patel; Thomas Julian Ow, MD; Melin Tan, MD

Comparison of Efficacy and Safety of Intranasal Midazolam with Syrup Chloral Hydrate for Procedural Sedation
John Mathew, MD

Factors Associated with Hypertrophy of the Lingual Tonsils
Sreeya Yalamanchali, MD; Anna M. Salapatas; Michael Friedman, MD; Ninos J. Joseph

Characterization of Contemporary Otolaryngology-Specific Emergency Room Care at the Massachusetts Eye and Ear Infirmary
Rosh K. V. Sethi, MD; Elliot D. Kozin, MD; Aaron Kyle Remensnyder, MD; Daniel J. Lee, MD; Stacey T. Gray, MD; Mark G. Shrime, MD, MPH; Richard E. Gillick, MD

Nonrandomized Prospective Study of an Upper Esophageal Sphincter (UES) Assist Device for Treating Laryngopharyngeal Reflux
Stacey L. Silvers, MD

Case Series and Systematic Review of IgG4-Related Diseases in the Head and Neck
Graeme B. Mulholland, MD; Caroline C. Jeffery, MD; Hamdy El-Hakim, MBBS; David Cote, MD

Scientific Oral Presentations: Basic Science/Translational Head and Neck Oncology
Room 414CD
Moderator: Cherie Ann O. Nathan, MD; Christine G. Gourin, MD

Fluorescence Imaging of Head and Neck Squamous Cell Carcinoma
Samantha J. Hauff, MD; Sharat C. Raju; Ryan K. Orosco, MD; Nadia Nashi; Elamprakash N. Savarir, PhD; Roger Y. Tsien, MD; Quyen T. Nguyen, MD, PhD

Pathogenic Biomarkers for Perineural Invasion in Adenoid Cystic Carcinoma
Kenya Kobayashi, MD; Mizuo Ando, MD; Go Omura, MD; Yuk i Saito, MD; Tatsuya Yasamasa, MD, PhD; Takahiro Asakage, MD

Diagnostic Accuracy of Galectin-3 for Well Differentiated Thyroid Cancer on Fine Needle Aspiration: A Meta-Analysis
Patrick Scheffler, MD; Veronique-Isabelle Forest, MD; Louise Rochon, MD; Michael Tamili, MD; Alex M. Mlynarek, MD, MSc; Michael P. Hier, MD; Richard J. Payne, MD

Using PD-L1 to Induce Chemosensitization of Head and Neck Squamous Cell Carcinoma
Adam R. Szymanski, MS; Peter Qiao; Shayanne Alexander Lajud, MD; Danish Nagda; Alyssa Civantos; Bert W. O’Malley Jr., MD; Daqing Li, MD

The Role of Targeted Therapy and Oncogene Dependence on the PIK3CA Mutation
Eric D. Wirtz, MD; Daiuke Hoshino, PhD; Alissa M. Weaver, MD, PhD

Biomarkers p56 and pERK as Predictors of Skin Cancer Aggressiveness
Cherie Ann O. Nathan, MD
10:06 am  Limitations of 8F1 Biomarker for Platinum-Resistance in HNSCC are Explained by Co-Detection of PCYT1A
Jason I. Kass, MD, PhD; Siddharth Sheth, MD; William Gooding; Lin Wang, MD; Alec E. Vaetz, MD; Melissa C. Austin, MD; Julie E. Bauman, MD, MPH

10:12 am  Development of a Translation-Ready Combination Cancer Immunotherapy Regimen Based on Clinically-Available Drugs
Sarah M. Kidwai; Padmini Jayaraman, PhD; Andrew G. Sikora, MD, PhD

Scientific Oral Presentations: Otology/Neurotology
Room 206
Moderator: Alan G. Micco, MD; Debara L. Tucci, MD, MBA

9:30 am  Encephaloceles of the Posterior Fossa: A Series of Ten Cases
Shruthi K. Rereddy; Douglas Mattox, MD

9:36 am  Middle Cranial Fossa Dehiscence as an Incidental Finding on CT
Taher Valika, MD; Miriam Pedleaf, MD

9:42 am  Body Mass Index and Imaging Abnormalities in Spontaneous Cerebrospinal Fluid Leaks of the Temporal Bone
Andrew Michael Rivera, MD; Daniel Jethanamest, MD; Simon J. Angeli, MD

9:48 am  Hydrophilic Hydroxyapatite Cement Cranioplasty: Preventing Cerebrospinal Fluid Leaks and Wound Complications in Translabyrinthine Acoustic Neuroma Surgery
Neal Jackson, MD; Samuel A. Spear, MD; Rahul Mehta, MD; Yu-Lan Mary Ying, MD; Kelly Scrantz, MD; Frank Culicchia, MD; Moises A. Arriaga, MD, MBA

9:54 am  Long Term Cross Hatching Eustachian Tuboplasty Outcomes
Carlos Yanez, MD, PhD; Sandra Velazquez, MD

10:00 am  The Adenoid Microbiome in Recurrent Acute Otitis Media and Obstructive Sleep Apnea
Carolyn P. Ojano-Dirain, PhD; Rodrigo C. Silva, MD; William O. Collins, MD; Patrick J. Antonelli, MD, MSc

10:06 am  Myringotomy and Ventilation Tube Insertion: Endoscopic Versus Microscopic Technique
Salvatore Martellucci, MD; Giulio Pagliuca, MD, PhD; Marco De Vincentis, MD; Camilla Gallipoli, MD; Armando De Virgilio, MD; Ettore Scaini, MD; Andrea Gallo, MD, PhD

10:12 am  Middle Ear Function in Sinonasal Polyposis: A Case-Control Study
Mohsen Rajati, MD; Mehdi Bakhtshaei, MD; Rahman Movahed, MD; Hossein Payedar Ardakani, MD

Scientific Oral Presentations: Rhinology/Allergy
Room 312
Moderators: Dole P. Baker Jr., MD; Zara M. Patel, MD

9:30 am  Sinonasal Outcomes Test-22 as a Tool to Identify Chronic Rhinosinusitis Among Adults with Cystic Fibrosis
Al-Rahim Habib, MS; Saad Alsaleh, MD; Jamal Manji; Bradley Quon, MD; Jane Buxton, MD; Amin R. Javer, MD

9:36 am  Acute Bacterial Sinusitis Complicating Viral Upper Respiratory Tract Infection in Young Children
Tal Marom, MD; Pedro E. Alvarez, MD; Kristofer Jennings, PhD; Janak A. Patel, MD; David McCormick, MD; Tanseeh Chonmaitree, MD

9:42 am  Fungal Sinusitis: Fact or Fiction?
Cara M. Katzer; Vidur Bhalla, MD; Rebecca T. Horvat, PhD; Ossama W. Tawfik, MD, PhD; D. David Beahm, MD; Ann B. Robinson, MD; Larry A. Hoover, MD
9:48 am  Sinus Headaches: Otolaryngology Treatment or Neurology Referral: Analysis of Efficacy and Cost-Effectiveness of Migraine Treatment
Pedram Daraei; Jennifer H. Gross; John M. Delgaudio, MD

9:54 am  Preliminary Findings: The Feasibility Study for a Randomised Controlled Trial of Clarithromycin in Chronic Rhinosinusitis
Jessica C. Bewick, MBBS; Francesco M. Egro, MD; Liam M. Masterson, MD; Carl M. Philpott, MBChB

10:00 am  Interrelation between Symptoms and Nasal Endoscopic Findings in the Diagnosis of Chronic Rhinosinusitis
Kyung-Su Kim, MD, PhD; Do Yang Park, MD; Eun Jung Lee, MD; Ji Hoon Kim, MD

10:06 am  Endoscopic Approach to Greater Palatine Artery to Control Recurrent Anterior Epistaxis
Anna Butrymowicz, MD; Carlos Pinheiro-Neto, MD; Adam Weisstuch, MD; Jay Agarwal

10:12 am  Allergic Fungal Sinusitis Infratemporal Fossa Involvement
Saudi Experience
Surayie H. Al Dousary, MD

Scientific Oral Presentations: Sleep Medicine
Room 314
Moderators: Eric J. Kezirian, MD; Scott A. Asher, MD

9:30 am  The Influence of Drug-Induced Sleep Endoscopy on Determining Candidacy for Upper Airway Stimulation (UAS) Therapy
Christopher M. Ayers, MD; Eric J. Kezirian, MD, MPH; B. Tucker Woodson, MD; Nico de Vries, MD, PhD; Shaun A. Nguyen, MD; Marion B. Gillespie, MD, MSc

9:36 am  Predicting Success of Transoral Robotic Surgery for OSA Using Pre-Operative Sleep Endoscopy and MRI Analysis
Rebecca C. Chiffer, MD; Ryan C. Borek, MD; Richard Schwab, MD; Erica R. Thaler, MD

9:42 am  Targeted Stimulation of the Hypoglossal Nerve for Treatment of Obstructive Sleep Apnea
Michael Friedman, MD; Sreeyaa Yalamanchili, MD; Ofer Jacobowitz, MD, PhD; John P. Campana, MD; Philippe Rombaux, MD; Wolfgang Bergler, MD, PhD; Joachim T. Maurer, MD

9:48 am  Adherence to PAP and Subspecialist Referral for PAP Intolerance following Polysomnogram
Jonathon O. Russell, MD; Jordan Gales; Charles Bae, MD; Alan Kominsky, MD

9:54 am  First Use of Long Range Optical Coherence Tomography to Image Airway Structure in Awake Children
Frances Lazarow, MD; Gurpreet S. Ahuja, MD; Giriraj Sharma, MD; Alex Wang; Erica Su; Zhongqing Chen, PhD; Brian J. F. Wong, MD, PhD

10:00 am  Effects of Obstruction Length and Height on Predicting Velopharyngeal Surgery Outcome in Obstructive Sleep Apnea
Jingying Ye, MD; Peng Zhang, MD; Chuxiong Pan, MD; Nian Sun, MD; Dan Kang; Jingjing Li, MD; Yuhuan Zhang

10:06 am  Drug-Induced Sleep Endoscopy Informs Management of Obstructive Sleep Apnea after Incomplete Mandibular Advancement Device Response
David T. Kent, MD; Ryan J. Soose, MD

10:12 am  Upper Airway Collapsibility and OSA: A Novel Method in Detecting the Pharyngeal Wall Flappiness
Wei Qian, MD, PhD; Guo-Chang Jiang, MD; Jun-Xiang Tang, MD; Lin Zhao, RN
10:30 am - 11:50 am

MINISEMINARS

RHINOLOGY/ALLERGY

**Ask the Experts: An Endoscopic Potpourri**

*Room 315*

David W. Kennedy, MD (Moderator); Berrylin J. Ferguson, MD; James N. Palmer, MD; Peter H. Hwang, MD; James A. Stankiewicz, MD; S. James Zinreich, MD

HEAD AND NECK SURGERY

**Cancer, Canker Sores, and More: High Risk Oral Cavity Lesions**

Supported by the Head and Neck Surgery and Oncology Committee

*Room 312*

Steven J. Wang, MD (Moderator); James J. Sciubba, DDS; Sol Silverman, DDS; Joseph Califano, MD; Jeremy D. Richmond, MD

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

**Contemporary Management of Unilateral Vocal Fold Paralysis**

*Room 414CD*

Sunil P. Verma, MD (Moderator); Paul C. Bryson, MD; Clark A. Rosen, MD; I-Fan Theodore Mau, MD; C. Gaelyn Garrett, MD

GENERAL OTOLARYNGOLOGY

**Getting Published: Tips for Residents, Young Physicians, and Practicing Clinicians**

Supported by the Journal Editorial Board and the Section for Residents and Fellows-in-Training

*Room 206*

Richard M. Rosenfeld, MD, MPH (Moderator); Cristina Baldassari, MD; Sujana S. Chandrasekhar, MD; Hamad Chaudhary, MD; Collin B. Grabarek, MFA; Courtney Pugh

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT

**ICD-10: Implementation Delayed but not Eliminated**

Supported by the Physician Payment Policy Workgroup

*Room 203*

Richard W. Waguespack, MD (Moderator); Robert R. Lorenz, MD; Angela A. Boynton

RHINOLOGY/ALLERGY

**Nonallergic Rhinitis: Diagnosis and Management**

*Room 314*

John H. Krouse, MD, PhD (Moderator); Stephanie Joe, MD; Amber U. Luong, MD; William R. Reisacher, MD; Elina M. Toskala, MD, PhD

SLEEP MEDICINE

**Procedure Selection with Drug-Induced Sleep Endoscopy**

*Valencia Ballroom D*

Norman R. Friedman, MD (Moderator); Eric J. Kezirian, MD, MPH; Nico de Vries, MD, PhD; Ryan J. Soose, MD; Edward M. Weaver, MD, MPH
BUSINESS OF MEDICINE/PRACTICE MANAGEMENT

Protect Your Practice, Protect Yourself and Protect Your Family CME-Supported by the Development Committee and Women in Otolaryngology Committee Room 414AB
Nikhil J. Bhatt, MD (Moderator); Mona M. Abaza, MD; Kanwar Kelley, MD; Ayesha N. Khalid, MD; Steve Church, MS; William Matthes; K. J. Lee, MD

HEAD AND NECK SURGERY

Sialendoscopy: The Beginner’s Guide to Success
Supported by the Medical Devices and Drugs Committee Chapin Theater
Gordon Siegel, MD (Moderator); Barry M. Schaitkin, MD; Johannes Zenk, MD, PhD; David W. Eisele, MD; Michael H. Fritsch, MD

GENERAL OTOLARYNGOLOGY

Technology with a Twist: Tools and Techniques to Advance Patient Care and Inspire Innovation
Supported by the Medical Devices and Drugs Committee and Rhinology and Paranasal Sinus Committee Valencia Ballroom BC
Anand K. Devaliah, MD (Moderator); Pete S. Batra, MD; Kris S. Moe, MD; Gregory J. Artz, MD; Peter J. Wormald, MD; Chris Holsinger, MD

HEAD AND NECK SURGERY

Thyroid Surgery in Clinical Practice Guidelines, Consensus Statements, and Position Papers: Content, Interpretation, and Limitations
Supported by the Outcomes Research and Evidence-Based Medicine Subcommittee and Endocrine Surgery Committee Valencia Ballroom A
Jennifer J. Shin, MD (Moderator); Gregory W. Randolph, MD; David James Terris, MD; Ralph P. Tufano, MD; Maisie L. Shindo, MD; Miriam N. Lango, MD; Alfred A. Simental, MD

Scientific Oral Presentations: General Otolaryngology Room 205
Moderators: Philip A. Harris, MD; Lawrence M. Simon, MD

10:30 am Predictors of Outcome in Angiotensin Converting-Enzyme Inhibitor-Induced Angioedema
Monica Chau Q. Kieu, DO; Arun Rajasakher, MD; John N. Bangiyev, DO; Prasad J. Thottam, DO; John Wilburn, MD; Noah Stern, MD; Phillip Levy, MD, MPH

10:36 am Airway Management in Severe Combat-Related Maxillofacial Trauma
Matthew W. Keller, MD; Peggy P. Han, MPH; Michael R. Galarneau; Matthew T. Brigger, MD, MPH

10:42 am A Standardized Lingual Tonsil Grading System: Inter-Examiner Agreement
Michael Friedman, MD; Sreeya Yalamanchali, MD; Kathryn Kaye; Ninos J. Joseph

10:48 am The Pacific Island Health Care Project: Utilization of Otolaryngology and Impact on Graduate Medical Education
Kelly Groom, MD; Mitchell J. Ramsey, MD
10:54 am  3D-CT Comparison of the Stylohyoid Chain in Eagle’s Syndrome’s, Glossopharyngeal Neuralgia, and Asymptomatic Controls  
David T. Kent, MD; Tanya J. Rath, MD; Carl H. Snyderman, MD

11:00 am  NSAIDs and Tonsillectomy: A Systematic Review and Meta-Analysis of the Literature Addressing Pain  
Natasha Cohen, MD; Doron D. Sommer, MD; Jonathan Maclean, MD

11:06 am  Development of a Clinical Care Pathway for Severe Epistaxis at a Tertiary-Care Medical Center  
Jason I. Kass, MD, PhD; Peter S. Vosler, MD, PhD; Eric W. Wang, MD; Carl H. Snyderman, MD

11:12 am  High Volume Tracheotomies in the Critically Ill Population: Analysis of Technique and Indications  
Iman Naseri, MD; Whitney B. Salem; Melinda Davis-Malesevich, MD

11:18 am  NSAIDs and Tonsillectomy: A Systematic Review and Meta-Analysis of the Literature Addressing Pain  
Natasha Cohen, MD; Doron D. Sommer, MD; Jonathan Maclean, MD

11:24 am  Early Versus Late Tonsillectomy: A Systematic Review and Meta-Analysis  
C. Carrie Liu, MD; Devon Livingstone, MD; Elijah Dixon, MD; Joseph C. Dort, MD, MSc

11:30 am  Racial Disparities in Incidence of Human Papillomavirus-Associated Oropharyngeal Cancer in an Urban Population  
Ilana Ramer; Indu V. Varier, MD; David Y. Zhang, MD, PhD; Elizabeth Demicco, MD, PhD; Marshall Posner, MD; Krzysztof Misiukiewicz, MD; Andrew G. Sikora, MD, PhD

11:36 am  Who is Performing Tracheotomies: A Ten Year Review  
Hetal Harish Patel, MD; Aldis P. Siltumens; Leah Bess; Fabian Camacho; David Goldenberg, MD

Scientific Oral Presentations: Pediatric Otolaryngology  
Room 204

Moderators: Charles A. Elmaraghy, MD; Dana M. Thompson, MD

10:30 am  The Efficacy of Mometasone Furoate Nasal Spray in the Treatment of Adenoidal Hypertrophy in Children  
Nadia Hassanrazdeh, DDS; Mohammad Reza Majidi, MD; Maryam Salehi, MD; Reyhaneh Hajipour, MD

10:36 am  Ethnic Disparities Among Pediatric Tonsillectomy Patients  
Romaine F. Johnson, MD, MPH; Ron B. Mitchell, MD; Andrew Chang, MD

10:42 am  Complications of Invasive S. Pneumoniae Before and After PCV7 Vaccination  
Matthew L. Pierce, MD; Andrew D. Walls; Nathan Krishnan; Earl H. Harley, MD

10:48 am  The Role and Function of the Vegf Pathway During Palate Development  
Britni H. Jacobs, MD; Steven L. Goudy, MD; Cynthia A. Hill, PhD

10:54 am  Hospital and Surgeon Adherence to Pediatric Tonsillectomy Guidelines Regarding Perioperative Dexamethasone and Antibiotic Administration  
Reema Padia, MD; Jacob Wilkes; Kent Korgenski; Rajendra Srivastava, MD; Jeremy D. Meier, MD

11:00 am  Standardizing OSA-18 Instrument for Use as Metric in Pediatric Otolaryngology  
Jessica Leslie, MPH; Cassandra Bannos; Alexann Kirby; David W. Roberson, MD
11:06 am  An Objective, Anatomically Based Analysis of Pediatric Snoring
Scott E. Brietzke, MD, MPH; Max D. Pusz, MD

11:12 am  Pediatric Head and Neck Malignancies: Incidence and Trends 1973-2010
Charlotte Hughes, MD, MPH; Isaac E. Schwartz, MD; Matthew T. Brigger, MD, MPH

11:18 am  The Utility of Various Common Surgical Instruments for Pediatric Adenotonsillectomy: Analysis of Time, Hemorrhage and Cost
Jennifer R. Christenson, DO; Prasad J. Thottam, DO; David S. Cohen, MD; Christopher M. Metz, MS; Michael S. Haupert, DO; Sonal Saraiya, MD

11:24 am  Causes and Costs for ED Visits after Pediatric Adenotonsillectomy
Jonathan Curtis, D. Brandon Harvey; Evan Narasimhan; Joseph R. Jacob, MD; Nicholas C. Van Buren, MD; Jeremy D. Meier, MD

11:30 am  Does Montelucast Have an Effect on Post-Tonsillectomy Pain Control in Children
Ilker Ince, MD, PhD; Ozgur Yoruk, MD; Ali Ahaskalaoglu, MD, PhD; Mehmet Aksoy, MD, PhD; Aysenur Dostbil, MD, PhD; Mine Celik, MD, PhD

11:36 am  Caregiver Reported Outcomes and Indirect Costs of Pediatric Tonsillectomy
Nicholas C. Van Buren, MD; Jonathan Curtis; Evan Narasimhan; D. Brandon Harvey; Jeremy D. Meier, MD

MONDAY

CALL FOR PAPERS

Instruction Course
Submission Opens: November 10, 2014
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Notifications Sent: March 2015

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### INSTRUCTION COURSES

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#### Presentation Formats

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- ![Hands-on](>)
- ![Mini-course](®)
- ![Two-hour course](≠)
- ![Three-hour course](≠)
- ![Non-CME](≠)

#### MONDAY, SEPTEMBER 22

#### 12:30 pm – 1:30 pm

**Clinical Fundamental: Clinical Outcome Measures/Evidence-based Medicine**
- **2505-1** Michael G. Stewart, MD, MPH  
  Room 300  
  CF

**Current Concepts in Vocal Fold Paralysis**
- **2506-1** Lucian Sulica, MD  
  Room 303  
  LBE

**FDG-PET for Head and Neck Cancer: Pearls and Pitfalls**
- **2507-1** Russell B. Smith, MD  
  Room 304AB  
  HNS
  Richard J.shu Wong, MD

**Common Errors in Voice Diagnosis: 16 Cases in 60-Minutes**
- **2508-1** Peak Woo, MD  
  Room 304CD  
  LBE

**Tympanoplasty: Medial or Medio-Lateral Graft**
- **2509-1** Timothy K. Jung, MD, PhD  
  Room 304EF  
  ON

**The Secrets of Successful Canalith Repositioning**
- **2510-1** John C. Li, MD  
  Room 304GH  
  ON
  Gerard J. Gianoli, MD

**Building a Referral Network In Medicine’s Changing Times**
- **2511-1** Douglas D. Backous, MD  
  Room 305  
  BMP

**Measuring the Productivity/Success of Your Practice**
- **2512-1** Kimberley J. Pollock, RN  
  Michael Stetzen, MD  
  Room 306  
  BMP

**Sialendoscopy for Gland Preservation: A Case-Based Approach**
- **2514-1** Marion B. Gillespie, MD, MSc  
  Michael Zenz, MD, PhD  
  Room 307CD  
  GEN

**Re-Operative Thyroid and Parathyroid Surgery**
- **2515-1** Brendan C. Stack Jr., MD  
  David L. Steward, MD  
  Room 308AB  
  HNS

**Improving Outcomes in Septal Surgery**
- **2516-1** Grant Gillman, MD  
  Room 308CD  
  GEN

**Does My Patient Need a Free Flap?**
- **2517-1** Douglas B. Chepeha, MD, MPH  
  Samir S. Khariwala, MD  
  Kelly M. Malloy, MD  
  Room 309A  
  FPRS

**Category:**

- ![Audience Polling](v)
- ![Hands-on](>)
- ![Mini-course](®)
- ![Two-hour course](≠)
- ![Three-hour course](≠)
- Non-CME
Chronic Sinusitis In Young Children
2518-1 Anthony E. Magit, MD
Seth M. Pransky, MD
Room 309B
PED

Reoperative Parathyroid Surgery Tips for Success
2519-1 Ralph P. Tufano, MD
Phillip K. Pelletier, MD
Room 310A
HNS

Ossiculoplasty Techniques with Hydroxyapatite Cement
2520-1 Joel A. Goebel, MD
Room 310B
ON

Thyroid Framework Surgery Types 1-4: Factors for Success
2521-1 Mark S. Courney, MD
Marc J. Remacle, MD, PhD
Room 312
LBE

Contemporary Management of Adult Airway Stenosis
2525-1 Dinesh Chhetri, MD
Sunil P. Verma, MD
Room 414AB
LBE

Regeneration Medicine for Inner Ear Diseases
2526-1 Juichi Ito, MD
Room 414CD
ON

Management of Zenker's and Hypopharyngeal Diverticula
2527-1 Richard L. Scher, MD
David Myssiorek, MD
Valencia Ballroom A
LBE

Management of Salivary Gland Malignancies
2528-1 Michael E. Kupferman, MD
Valencia Ballroom BC
HNS

Review of Pediatric Polysonomography Guidelines
2529-1 Norman R. Friedman, MD
Valencia Ballroom D
SM

Steroids In ORL: Indications, Efficacy, and Safety
2530-1 Stacey T. Gray, MD
Eric H. Holbrook, MD
Chapin Theater
GEN

12:30 pm - 2:30 pm

Pears in Patophysiology Techniques for OSA
2501-2 Brian Rotenberg, MD
Room 203
GEN

Case Based Approach to Voice Disorders: Pitfalls and Pearls
2502-2 Blake Simpson, MD
Clark A. Rosen, MD
Room 204
LBE

Pediatric Endoscopic Airway Surgery: State of the Art
2503-2 Michael J. Rutter, MD
Alessandro De Alacron, MD, MPH
Room 205
PED

Anatomy and Surgical Management of Frontal Sinus Disease
2504-2 Stilianos E. Koumantakis, MD
Room 206
RA

Facial Injuries: Zygoma, Midface, Skull Base Reconstruction
2513-2 Kurt Laedrach, MD
Room 307AB
FPRS

Cochlear Implants and Hands-On Electrode Insertion Workshop
2522-2 Craig Buchman, MD
William M. Ludford, MD
Bruce J. Gantz, MD
Peter S. Roland, MD
Room 313
ON

Become an Expert in Rhinology Coding
2523-2 Seth M. Brown, MD
Winston C. Vaughan, MD
Room 314
BMP

Head and Neck Endocrine Surgery: Management of Thyroid Cancer
2524-2 Chris Holsinger, MD
Lisa A. Orloff, MD
Gary L. Clayman, MD
Room 315
HNS
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<td>Clinical Fundamental: Treatment of Anaphylaxis</td>
<td>John H. Krouse, MD, PhD</td>
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<td>Awake Vocal Fold Injection in the Office: When, Why and How</td>
<td>Lucian Sulica, MD</td>
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<td>Frontal Sinus Surgery: Basic and Advanced Technique</td>
<td>Roy R. Casiano, MD, Adam J. Folbe, MD</td>
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<td>Surgery of the Inferior, Middle, and Superior Turbinates</td>
<td>Peter H. Hwang, MD, Richard R. Orlandi, MD</td>
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<td>Hemostasis During Endoscopic Sinus Surgery</td>
<td>Carl H. Snyderman, MD, Harshita Pant, MD</td>
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<td>BPPV Management: Lateral, Posterior, and Conversions</td>
<td>Judith A. White, MD</td>
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<td>Cochlear Implantation in Infants and Children</td>
<td>Blake C. Papsin, MD, Sharon L. Cushing, MD, Adrian L. James, MD</td>
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<td>Corticosteroids: Know the Risks!</td>
<td>David M. Poelker, MD, Todd T. Kingdom, MD</td>
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<td>The Nasal Valve Primer: Everything You Need to Know</td>
<td>Grant Gillman, MD</td>
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<td>Using M&amp;M Conference to Promote Safety &amp; Quality Improvement</td>
<td>Brian Nusserbaum, MD, Rahul Shah, MD</td>
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<td>Prevention and Management of Complications in Ear Surgery</td>
<td>Patrick J. Antonelli, MD, MSC, Rex S. Haberman, MD</td>
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<td>UPPP and Oral Appliance: Friends or Foes?</td>
<td>Oleg Froymovich, MD, Andrea Furr Lewis, MD, Offer Jacobowitz, MD, PhD</td>
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<td>Sleep Study Evaluation...More than an RDI</td>
<td>Lee M. Shangold, MD, Peli Ann Wardrop, MD</td>
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<td>Biofilms in Chronic Sinusitis</td>
<td>Peter J. Wormald, MD, Alkis Psaltis, MD, PhD, Andrew Foreman, MD</td>
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<td>Office Management of Snoring in 2014</td>
<td>Scott E. Brietzke, MD, MPH, Stacey L. Ishman, MD, MPH</td>
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<td>Evidenced-based Management of Head and Neck Melanoma</td>
<td>Michael E. Kuglerman, MD</td>
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<td>How We Do It: Selection and Treatment the Snoring and OSA</td>
<td>Michael Friedman, MD</td>
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#### Defect-Based Approach to Reconstruction of Cutaneous Defects
- **2612-2** Jeffrey S. Moyer, MD  
  Jennifer C. Kim, MD  
  Room 306  
  FPRS

#### ORL Boot Camps: How to Onboard Residents with Simulation
- **2618-2** Ellen S. Deutsch, MD  
  Sonya Malekzadeh, MD  
  Kelly M. Malloy, MD  
  Room 3098  
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#### Cleft Lip and Palate Surgery for Residents
- **2627-2** Tom D. Wang, MD  
  Melynda A. Barnes, MD  
  Valencia Ballroom A  
  FPRS

### 1:45 pm - 4:45 pm

#### Rhinology and Allergy Review Course
- **2630-3** Brent A. Senior, MD  
  Stacey T. Gray, MD  
  Chapin Theater  
  RA

### 3:00 pm - 4:00 pm

#### Vocal Fold Injection: Fact, Fiction, and Material Selection
- **2701-1** Clark A. Rosen, MD  
  Room 203  
  LBE

#### Meniere or Migraine: Similarities, Differences, Treatments
- **2702-1** Jack J. Wazen, MD  
  Herbert Silverstein, MD  
  Room 204  
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#### Evidence-based Otitis Media 2014
- **2703-1** Richard M. Rosenfeld, MD, MPH  
  Room 205  
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#### Clinical Fundamental: HIPAA: Updates and what it Means for You
- **2705-1** Kathleen L. Yaremchuk, MD  
  Room 300  
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#### Auditory Neuropathy: An Evidence-based Clinical Approach
- **2706-1** Christina Runge, MD  
  David R. Friedland, MD  
  Room 303  
  ON

#### Up-to-Date Management of Recalcitrant Sinonasal Polyposis
- **2707-1** Steven D. Fletcher, MD  
  Eric H. Holbrook, MD  
  Room 304AB  
  RA

#### Transcanal Endoscopic Ear Surgery
- **2708-1** Muaaz Tarabichi, MD  
  Daniele Marchioni, MD  
  Room 304CD  
  ON

#### Developing a Quality Control Program for Surgeons
- **2709-1** Carl H. Snyderman, MD  
  Erin L. McKean, MD  
  Room 304EF  
  BMP

#### Autism and Asperger's for the Practicing Otolaryngologist
- **2710-1** Michelle Cullen, MD  
  Room 304GH  
  PED

#### E&M Coding and Documentation for Proper Reimbursement
- **2711-1** Lawrence M. Simon, MD  
  Room 305  
  BMP

#### Medical Management of Thyroid Disease for Otolaryngologists
- **2713-1** David L. Steward, MD  
  Room 307AB  
  HNS

#### Can You Fly with that? Your Flying Patients and the FAA
- **2714-1** David G. Schall, MD, MPH  
  Room 307CD  
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#### Dysgeusia: Leaving a Bad Taste in the Doctor’s Mouth
- **2716-1** Allen M. Seiden, MD  
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<td><strong>H &amp; N Melanoma: Achieving Clarity Amongst the Controversy</strong></td>
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<td>2715-2 Cecelia E. Schmalbach, MD, Carol R. Bradford, MD, Room 308AB</td>
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<td><strong>Diagnosis, Treatment, and Results in Cochlear Reimplantation</strong></td>
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<td><strong>Skin Testing for Inhalant and Food Allergies</strong></td>
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<td>2722-2 William R. Reisacher, MD, Cecelia Damausk, MD, and Amber U. Luong, MD, Room 313</td>
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<td><strong>Endoscopic Management of the Pediatric Airway</strong></td>
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<td>2728-2 Charles M. Bower, MD, Gresham T. Richter, MD, Daniel J. Kirse, MD, and Steven E. Sobol, MD, Valencia Ballroom BC</td>
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<td><strong>Interactive Case Studies in Differentiated Thyroid Cancer</strong></td>
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<td>MONDAY 4:15 pm - 5:15 pm</td>
<td>Tongue Base Surgery in Sleep Apnea</td>
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<td>The Chronic Ear Surgical Techniques and Avoiding Complications</td>
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<td>Introduction to Craniofacial Surgery</td>
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### Pediatric Sleep Surgery from A to Z

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<td>Peter J. Koltai, MD&lt;br&gt;Mai Thy T. Truong, MD&lt;br&gt;Robson Capasso, MD</td>
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### Preoperative Decision Making in Thyroid Surgery

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<td>Gregory W. Randolph, MD&lt;br&gt;David L. Steward, MD</td>
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### Surgical Rejuvenation of the Aging Forehead and Brow

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Congratulations to the 2014 Award Honorees

Presidential Citations
Presidential Citations recognize individuals selected by the President for their outstanding contributions and dedication to the Academy and Foundation. This year’s recipients are:

Byron J Bailey, MD
Reginald F. Baugh, MD
Julius N. (Buddy) Hicks, MD (posthumously)

Distinguished Award for Humanitarian Service
This Distinguished Award for Humanitarian Service is bestowed on a member who gives freely of professional skills to those who cannot otherwise receive them, physically or financially. This year’s recipient is J. Thomas Roland Jr., MD

Gold Foundation for Humanism in Medicine Award
This award recognizes an Academy member who is a practicing physician exemplifying outstanding humanism in caring for patients. This year’s honoree is Raul Cruz, MD

Holt Leadership Award
The Holt Leadership Award is awarded annually at the Annual Meeting to the resident or fellow-in-training who best exemplifies the attributes of a young leader – honesty, integrity, fairness, advocacy, and enthusiasm. This year’s recipient is Jayme R. Dowdall, MD

Jerome C. Goldstein, MD Public Service Award
The Jerome C. Goldstein, MD, Public Service Award recognizes members for commitment and achievement in service, either to the public or to other organizations, when such service promises to improve patient welfare. This year’s recipient is Keith F. DeSonier, MD
## Day-at-a-Glance

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>Poster Presentation Breakfast</td>
<td>7:00 am – 8:00 am</td>
<td>Hall C</td>
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<tr>
<td>AAO-HNS Member Resource Center</td>
<td>7:00 am – 5:30 pm</td>
<td>Central Lobby</td>
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<tr>
<td>Millennium Society Donor Appreciation Lounge</td>
<td>7:30 am – 5:00 pm</td>
<td>Room 207</td>
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<tr>
<td>Scientific Posters on Display</td>
<td>7:30 am – 5:30 pm</td>
<td>Hall C</td>
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<td>OTO EXPO&lt;sup&gt;SM&lt;/sup&gt;</td>
<td>8:00 am – 3:00 pm</td>
<td>Hall B</td>
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<tr>
<td>Scientific Program</td>
<td>8:00 am – 11:50 am</td>
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### Eugene N. Myers, MD

**International Lecture on Head and Neck Cancer**  
Tuesday, September 23, 9:30 am  
Room 414AB  
*Lecturer: Professor Sheng-Po Hao, MD*

### CORE Research Awards Ceremony

10:30 am – 11:50 am, Room 414AB

### Instruction Courses

12:30 pm – 5:15 pm

### Alumni Receptions

6:30 pm – 8:00 pm, Hyatt Regency Orlando, Regency Ballroom P

### Auris Medical Corporate Symposium

“Rational Pharmacotheraphy for Tinnitus – Recent Advances and Perspectives”  
6:30 pm – 8:30 pm, Hyatt Regency Orlando, Regency Ballroom T

### International Reception (by invitation only)

8:00 pm – 10:00 pm, Hyatt Regency Orlando, Orlando Ballroom
SCIENTIFIC PROGRAM

8:00 am - 9:20 am

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT

Board of Governors’ Hot Topic 2014: Will Fee for Service Survive?
Supported by the BOG Executive Committee
Chapin Theater
Sanjay R. Parikh, MD (Moderator); David W. Kennedy, MD; Richard W. Waguespack, MD; James C. Denneny III, MD; Michael Setzen, MD

ENDOCRINE SURGERY

Contemporary Ultrasound of the Head and Neck
Supported by the Endocrine Surgery Committee and Imaging Committee
Room 414AB
Robert A. Soffer, MD (Moderator); Lisa A. Orloff, MD; Russell B. Smith, MD; Merry E. Sebelik, MD; Henry J. Baskin Jr., MD; Anil T. Ahuja, MD

GENERAL OTOLARYNGOLOGY

Decision Making in the Precarious Airway Audience Polling
Room 315
Jonas T. Johnson, MD (Moderator); Karen M. Kost, MD; David Goldenberg, MD

RHINOLOGY/ALLERGY

Difficult Nasal Polyposis: Evolving Treatments and Remedies
Valencia Ballroom A
Bradford A. Woodworth, MD (Moderator); James N. Palmer, MD; Douglas D. Reh, MD; Jan Gosepath, MD

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

Management of Bilateral Vocal Fold Immobility
Supported by the Airway and Swallowing Committee
Room 314
Sid Khosla, MD (Moderator); Alexander T. Hillel, MD; Alessandro De Alarcon, MD, MPH; Stacey L. Halum, MD; Lucian Sulica, MD; Gayle E. Woodson, MD

TUESDAY

There are many ways you can get to this year’s online Annual Meeting & OTO EXPOSM Evaluation:
- Visit the Computer Stations located in the convention center
- Link from the Annual Meeting mobile app
- Access the evaluation website on your personal computer, laptop, or smartphone

Complete your evaluation by October 24 to receive credit at www.entnet.org/annual_meeting
Managing the Unexpected in Otologic Surgery
Supported by the American Neurotology Society (ANS)
Room 414CD
Ashkan Monfared, MD (Moderator); Nikolas H. Blevins, MD; Anil K. Lalwani, MD; Lawrence R. Lustig, MD; Debora L. Tucci, MD, MBA

Tackling Problematic Chronic Rhinosinusitis: Technical Pearls on Optimizing Outcomes from Endoscopic Sinus Surgery (ESS)
Valencia Ballroom D
Devyani Lal, MD (Moderator); Roy R. Casiano, MD; Rakesh K. Chandra, MD; Peter H. Hwang, MD; Brent A. Senior, MD; James A. Stankiewicz, MD

The HPV Head and Neck Cancer Epidemic: What You Need to Know
Room 312
Christine G. Gourin, MD, MPH (Moderator); Maie St. John, MD; Eduardo Mendez, MD; Harry Quon, MD; Miriam N. Lango, MD

Thyroid Surgical Care 2014: Ultrasound, FNA, Molecular Testing, and the ATA Guidelines
Supported by the Endocrine Surgery Committee
Valencia Ballroom BC
Robert L. Witt, MD (Moderator); Gregory W. Randolph, MD; David L. Steward, MD; Edmund A. Pribitkin, MD; Robert L. Ferris, MD

Understanding the Dizzying Array of Diagnostic Dizziness Tests
Supported by the Equilibrium Committee
Room 206
Michael E. Hoffer, MD (Moderator); Sanjay Bhansali, MD; Jeremy Hornibrook, MD; Yuri Agrawal, MD; Jeffery J. Kuhn, MD; Meredith E. Adams, MD

Locoregional Radiotherapy Combined with Systemic Chemotherapy Improves Survival of NPC Patients with Distant Metastases
Ming-Yuan Chen, MD, PhD

Transoral Surgery versus Primary Chemoradiation for Advanced Stage Head and Neck Squamous Cell Carcinoma
Emily J. Lo, MD; John M. Truelson, MD; Larry L. Myers, MD; Lucien Nedzi, MD; John Yordy, MD; Randall Hughes, MD; Baran D. Surner, MD

Awareness of Human Papilloma Virus (HPV) and its Association with Oropharyngeal Cancer
David Goldenberg, MD; Michael U. Williams; Michele M. Carr, MD
Scientific Oral Presentations: Laryngology/Broncho-Esophagology
Room 204
Moderators: Robert P. Zitcsh III, MD; Albert L. Merati, MD

8:00 am A New Coupling Device to Record Fiberoptic Laryngoscopies on to a Smartphone: A Pilot Study
Jason A. Brant, MD; Kevin Leahy, MD, PhD; Natasha Mirza, MD

8:06 am Clinical Experiences of NBI Laryngoscope in Diagnosis of Laryngeal Lesions
Chunshun Jin, PhD; Xinneng Qi, MBBS; Dan Yu, PhD; Xue Zhao, MS; Xueshibojie Liu, MBBS; Jinzheng Cheng, MS; Dejun Zhang, MS

8:12 am The Anatomic Location and Distribution Pattern of Malignant and Pre-Malignant Glottic Lesions
Hagit Shoffel-Havakuk, MD; Doron Halperin, MD; Liron Yosef, MD; Yonatan Lahav, MD

8:18 am Trans-Nasal Office Based Laryngeal Surgery Using a Distal-Chip Endoscope with a Working Channel
Hagit Shoffel-Havakuk, MD; Doron Halperin, MD; Liron Yosef, MD; Yonatan Lahav, MD

8:24 am Narrow Band Imaging (NBI): Demonstration of Laryngeal Micro-Vascularization in Normal and Pathological Conditions
Hagit Shoffel-Havakuk, MD; Doron Halperin, MD; Liron Yosef, MD; Yonatan Lahav, MD
8:30 am  Long Term Survival of Autologous Fat Grafts into the Vocal Folds
Guillermo Campos, MD; Natalia Mantilla, MD; Sonia Bermudez, MD

8:36 am  Spasmodic Dysphonia: A 20-Year Experience of Injecting Botulinum Toxin
Arya W. Namin; Kara Christopher, MPH; John F. Eisenbeis, MD

8:42 am  Trends in Utilization of Vocal Fold Injection Procedures
David E. Rosow, MD

8:48 am  Functional Electrical Stimulation of the Larynx with a Flexible Ribbon Electrode Array
Morgan R. Bliss, MD; Heather Wark; Daniel McDermall, PhD; Marshall E. Smith, MD

8:54 am  Clinical Study of Postoperative Swallowing in Multiple System Atrophy
Rumi Ueha, MD; Takaharu Nito, MD; Akihito Yamauchi, MD; Tsukasa Uranaka, MD; Tatsuya Yamasoba, MD, PhD

9:00 am  Evaluation of Airway and Voice Following Posterior Transverse Cordotomy for Bilateral Vocal Fold Paralysis
Karla D. O’Dell, MD; Jordan J. Allensworth; Joshua S. Schindler, MD

9:06 am  Detection and Characterization of Laryngeal Reflex Pathology in Mouse Models of Human Diseases
Leslie Farmer Shock; Brandon Gallemore; Richard Oberto; Cameron Hinkel; Tersa Lever, PhD

Scientific Oral Presentations: Otology/Neurotology Room 203 Moderators: Mark J. Syms, MD; Michael R. Holtel, MD

8:00 am  Proteomic Analysis of Human Stapes in Otosclerosis
Derrick R. Randall, MD, MSc; Phillip S. Park, MD; Shamir P. Chandarana, MD; Justin Chau, MD

8:06 am  Endoscopic Stapes Surgery: A Prospective Controlled Study
Andrea Gallo, MD, PhD; Salvatore Martelliucci, MD; Camilla Gallipoli, MD; Marco De Vincentiis, MD; Antonio Greco, MD; Chiara Rosato, MD; Giulio Pagliuca, MD, PhD

8:12 am  Hearing Outcomes after Revision Stapedectomy Managed with Total Ossicular Reconstruction Prostheses
J. Eric Lupo, MD; Brian M. Strickland; John W. House, MD

8:18 am  Is the Extent of the Pre-Operative Air-Bone Gap an Indicator of Potential Success in Stapedectomy?
Charlie Huins, MD

8:24 am  Value of Endoscopy in Surgical Procedures to Stapedial Region
Matteo Alicandri-Ciufelli, MD; Daniele Marchioni, MD, Domenico Villari, MD; Livio Presutti, MD

8:30 am  Quality of Life (QoL) Assessment in Patients with Neurofibromatosis Type II (NF2)
Maura Cosetti, MD; John Golfinos, MD; J. Thomas Roland, MD

8:36 am  Hearing Preservation after Middle Fossa Vestibular Schwannoma Removal: Are the Results Durable?
Tyler Quist; Daniel J. Givens, MD; Richard K. Gurgel, MD; Roukoz Chamoun, MD; Otough Shelton, MD
8:42 am  Steady State Free Precession (SSFP) MRI Imaging as a Screening Evaluation for Vestibular Schwannoma
Anju K. Patel, MD; Thomas A. Pacicco; Neel Madan, MD; Harprit S. Bedi, MD; Carl B. Heilman, MD; Jonathan S. Sillman, MD

8:48 am  Natural History of Jugular Paragangliomas: A Review of 16 Patients Managed with Conservative Observation
Alex D. Sweeney, MD; Matthew L. Carlson, MD; George B. Wanna, MD; James L. Nettville, MD; David S. Haynes, MD

8:54 am  Evolution in Surgical Management of Glomus Tympanicum Over 40 Years: A Review of 114 Cases
Matthew L. Carlson, MD; Stanley Pelosi, MD; Alex D. Sweeney, MD; George B. Wanna, MD; Marc L. Bennett, MD; Alejandro Rivas, MD; David S. Haynes, MD

9:00 am  Subtotal Resection for Management of Large Jugular Paragangliomas with Intact Lower Vranial Nerves
George B. Wanna, MD; Alex D. Sweeney, MD; Matthew Luke Carlson, MD; Richard F. Latuska; Alejandro Rivas, MD; Marc L. Bennett, MD; David S. Haynes, MD

9:06 am  Radiosurgical Trends for Treatment of Vestibular Schwannomas in the U.S.
Marlon M. Maducdoc; Yaser Ghavami, MD; Hamid R. Djallilian, MD

9:30 am - 10:20 am  MINISEMINARS

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY

Acute and Delayed Management of Maxillofacial Trauma
Supported by the Trauma Committee and the Facial Plastic and Reconstructive Surgery Education Committee
Valencia Ballroom BC
Robert M. Kellman, MD (Moderator); J. Randall Jordan, MD; Bradley Strong, MD; Todd M. Brickman, MD, PhD; Sherard A. Tatum, MD

OTOLOGY/NEUROTOLOGY

Aural Full and Otogenic Pain Redux
Supported by the Otology and Neurotology Education Committee
Room 315
Alan G. Micco, MD (Moderator); Cliff A. Megerian, MD; Elizabeth H. Toh, MD; Simon I. Angeli, MD

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT

Human Error and Patient Safety: Managing Cognitive and Motivational Bias in Medical Decision-Making
Valencia Ballroom D
Ellis M. Arjmand, MD (Moderator); Jo A. Shapiro, MD; Rahul K. Shah, MD, MBA; Brian Nussenbaum, MD; Karthik Balakrishnan, MD, MPH

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

Injection Laryngoplasty 2014: Indications, Techniques, and Pitfalls in Modern Vocal Fold Augmentation
Room 312
Jonathan M. Bock, MD (Moderator); Adam M. Klein, MD; David O. Francis, MD; Adam D. Rubin, MD; Andrew J. McWhorter, MD
PEDIATRIC OTOLARYNGOLOGY
Pediatric Sleep Disordered Breathing: Evidence-based Approach to Evaluation and Management
Valencia Ballroom A
Samantha Anne, MD, MSc (Moderator); Richard M. Rosenfeld, MD, MPH; Stacey L. Ishman, MD, MPH; Nira A. Goldstein, MD; Norman R. Friedman, MD

OTOLOGY/NEUROTOLOGY
Putting a New Spin on Things: Evidence-based Management of Geriatric Dizziness
Supported by the Geriatric Otolaryngology Committee and the Equilibrium Committee
Chapin Theater
Yuri Agrawal, MD (Moderator); Brian J. McKinnon, MD; Allan M. Rubin, MD; Stephen J. Wetmore, MD

HEAD AND NECK SURGERY
Surgery with Optical Imaging: Fluorescence Guided and Molecular Navigation
Room 314
Quyen T. Nguyen, MD, PhD (Moderator); Laura Marcu, PhD; Eben L. Rosenthal, MD; Alex L. Vahrmeijer, PhD

OTOLOGY/NEUROTOLOGY
The Martha Entenmann Tinnitus Research Center, Inc.: Abraham Shulman, MD; and Barbara Goldstein, PhD; International Tinnitus Miniseminar Tinnitus Treatment Modalities and Neuromodulation: State of Art 2014
Supported by the Martha Entenmann Tinnitus Research Center, Inc.
Room 303
Michael E. Hoffer, MD (Moderator); Michael D. Seidman, MD; Abraham Shulman, MD; Richard Tyler, PhD; Berthold Langguth, MD; Tobias Kleinjung, MD

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT
The Nuts and Bolts of Maintenance of Certification
Room 206
Marita S. Teng, MD (Moderator); Robert H. Miller, MD, MBA; Sonya Malekzadeh, MD; Shane Smith, MD; Stacey T. Gray, MD

GENERAL OTOLARYNGOLOGY
Wow! That’s a Lot of Blood: Expert Management of Epistaxis
Room 414CD
David M. Poetker, MD (Moderator); Douglas D. Reh, MD; Bradford A. Woodworth, MD; Nathan B. Sautter, MD; Douglas A. Ross, MD; Jay F. Piccirillo, MD
Scientific Oral Presentations: Otology/Neurotology
Room 203
Moderators: Daniel J. Lee, MD; Samantha Anne, MD

9:30 am  Protocol For Auditory Brainstem Implants in Children
Giacomo Colletti, MD; Robert V. Shannon, PhD; Marco Mandala, MD;
Liliana Colletti, MD; Vittorio Colletti, MD

9:36 am  Translabyrinthine Tumor Removal with Concurrent Bone Anchored
Hearing Aid Placement
Theodore R. McRackan, MD; Eric P. Wilkinson, MD; William H. Slattery, MD;
Derald E. Brackmann, MD; John C. Goddard, MD

9:42 am  Minimally Invasive Surgery for Osteointegrated Auditory Implants:
A Comparison of Linear vs. Punch Techniques
Daniel H. Coelho, MD; Steven A. Gordon, MPH

9:48 am  The Envoy Esteem Hearing System: Single Surgeon Experience
Joshua M. Sappington, MD; Sam J. Marzo, MD

9:54 am  Tight Subperiosteal Pocket During Cochlear Implant Surgery:
Results in a Large Cohort of Patients
Alex D. Sweeney, MD; Matthew Luke Carlson, MD; Carla V. Valenzuela;
Marc L. Bennett, MD; George B. Wannia, MD; Alejandro Rivas, MD;
David S. Haynes, MD

10:00 am  Endoscopic Cochlear Implant: A Series of Cases
Janaina Leite, MD; Raquel Lobo, MD; Ticiana Cabral, MD; Joao F. Nogueira, MD

10:06 am  Generation of a Novel Transgenic ChR2 Mouse to Investigate Cochlear
Implant Model Based on Optogenetics
Xiankai Meng, PhD; Ariel E. Hight, MS; Elliott D. Kozin, MD; Chris Brown, PhD;
Albert S. Edge, PhD; Daniel J. Lee, MD

10:12 am  Development and Characterization of Chemical Cochleostomy
in the Guinea Pig
Jennifer C. Alyono, MD; Eduardo Corrales, MD; Nikolias Blewirs, MD;
Anthony Ricci, PhD

Scientific Oral Presentations: Pediatric Otolaryngology
Room 204
Moderators: Dana M. Thompson, MD; Samantha Anne, MD

9:30 am  Incidence and Grading of Subglottic Stenosis and Associated GERD/LPR
in Recurrent Group
Benjamin L. Hodnett, MD, PhD; Riera Katherine; Deepak Mehta, MD;
Jeffrey P. Simons, MD; Raymond C. Maguire, DO

9:36 am  Difficult Pediatric Airway Management: A Randomized Trial Comparing
Laryngeal Mask Airway, Video-Assisted, and Direct Laryngoscopy
Art A. Ambrosio, MD; Colleen Perez, MD; Chelsie Byrnes, MD; Cory Gacconet,
MD; Christopher Cornelissenn, MD; Matthew T. Brigger, MD, MPH

9:42 am  Comparison of Hybrid Laryngotracheal Reconstruction to Traditional
Single and Double-Stage Laryngotracheal Reconstruction
Nikhila P. Raol, MD; Derek J. Rogers, MD; Jennifer Setlur, MD;
Christopher J. Hartnick, MD

9:48 am  Button Battery Injuries in the Pediatric Aerodigestive Tract
Abhinav R. Eltyreddy; Matthew W. Georg; Deepak Mehta, MD;
David Chi, MD; Robert F. Yellon, MD; Barbara A. Gaines, MD; Jeffrey P. Simons, MD
9:54 am  Revision Thoracic Slide Tracheoplasty for Congenital Tracheal Stenosis: Outcomes Following Unsuccessful Prior Tracheal Reconstruction
Douglas R. Sidell, MD; Alessandro de Alarcon, MD, MPH; Peter Bruce Manning, MD; Catherine K. Hart, MD; Karthik Balakrishnan, MD, MPH; Jareen Meinzen-Derr; Michael J. Rutter, MD

10:00 am  Evaluation of True Vocal Fold Growth as a Function of Age
Derek J. Rogers, MD; Jennifer Setlur, MD; Nikhil P. Raul, MD; Rie Maurer; Christopher J. Hartnick, MD

10:06 am  Treatment of Bilateral Severe Bronchomalacia with 3-Dimensionally Printed Patient-Specific External Bronchial Splints
Robert J. Morrison, MD; Hassan B. Nasser; Daniel R. Jensen, MD; Albert H. Park, MD; Richard G. Ohye, MD; Scott J. Hollister, MD; Glenn E. Green

10:12 am  National Trends in Tongue Reduction Surgery for Macroglossia in Children
Anju K. Patel, MD; Nicholas S. Mader, MD; Andrew R. Scott, MD

Scientific Oral Presentations: Rhinology/Allergy
Room 205
Moderators: Mark K. Wax, MD; Gale T. Tuper Jr., MD

9:30 am  Chlorogenic Acid: A Potential Activator of Dysfunctional Mucus Transport in Chronic Rhinosinusitis
Elisa A. Illing, MD; Nichole Dean, DO; Quinn Dunlap; Daniel Skinner; Shaoyan Zhang, PhD; Bradford A. Woodward, MD

9:36 am  Cytologic and Functional Alterations of Nasal Mucosa in Smokers: Temporary or Permanent Damage?
Giulio Pagliuca, MD, PhD; Chiara Rosato, MD; Salvatore Martellucci, MD; Marco De Vincentis, MD; Massimo Fusconi, MD; Armando De Virgilio, MD; Andrea Gallo, MD, PhD

9:42 am  Nasal Mucus Glucose and Chronic Rhinosinusitis
Kyle M. Hatten, MD; James N. Palmer, MD; Robert J. Lee, PhD; Nithin D. Adappa, MD; David W. Kennedy, MD; Noam A. Cohen, MD, PhD

9:48 am  Clinical Examination of Tissue Eosinophilia in Patients with Chronic Rhinosinusitis and Nasal Polyps
Todd T. Kingdom, MD; Sarah A. Gitomer, MD; Stefan H. Sillau; Rohit K. Katial, MD; Vijay R. Ramakrishnan, MD

9:54 am  The Effect of Vibriases on Subjective and Objective Measures of Nasal Obstruction
David G. Stoddard, MD; John F. Pallanch, MD; Grant S. Hamilton, MD

10:00 am  Self-Crosslinked Hyaluronic Acid Hydrogel (PureRegen® Gel Sinus) in Ethmoidectomy: A Randomized Controlled Trial
Keith E. Matheny, MD; Ewen Tseng, MD; Kenny B. Carter, MD; William B. Cobb, MD; Karen J. Fong, MD

10:06 am  Transcriptional Activity of HPV in Inverted Papilloma Demonstrated by In situ Hybridization of HPV mRNA
David G. Stoddard, MD; Michael G. Keeney, MD; Joaquin J. Garcia, MD; Erin K. O’Brien, MD

10:12 am  Hypoxia Increases Epithelial Permeability in Human Nasal Epithelia
Hyo Jin Chung, MD; Hyun Jin Min, MD, PhD; Da Hee Kim, MD; Chang-Hoon Kim, MD, PhD
HEAD AND NECK SURGERY

Contemporary Update on Endoscopic Skull Base Surgery: Technique, Outcomes, and Quality of Life
Supported by the Skull Base Surgery Committee
Room 315
Ivan H. El-Sayed, MD (Moderator); Ehab Y. N. Hanna, MD; Carl H. Snyderman, MD; Michael E. Kupferman, MD; Marc Rosen, MD; Anand K. Devaiah, MD; Ziv Gil, MD, PhD

OTOLOGY/NEUROTOLOGY

Endoscopic Ear Surgery: Tips and Pearls
Supported by the International Working Group on Endoscopic Ear Surgery
Chapin Theater
Joao F. Nogueira, MD (Moderator); Muaaz Tarabichi, MD; Daniele Marchioni, MD; Livio Presutti, MD; David D. Pothier, MD

GENERAL OTOLARYNGOLOGY

Global Health 2014: Our Academy Around the World
Room 206
James E. Saunders, MD (Moderator); Jose Julio Letort, MD; Freddy Alcides Ferreras-Mendez, MD; Abdulrahman Al-Hagar, MD, MBBS; Dato Lokman Saim, MD; Jan Betka, MD; David J. Howard, MD

SLEEP MEDICINE

Hypoglossal Nerve Stimulation Therapy for OSA
Supported by the Sleep Disorders Committee
Valencia Ballroom A
Ryan J. Soose, MD (Moderator); B. Tucker Woodson, MD; Eric J. Kezirian, MD, MPH; Ofer Jacobowitz, MD, PhD; M. Boyd Gillespie, MD, MSc

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

It’s not Always Reflux: What are we Missing
Supported by the Voice Committee
Valencia Ballroom D
Michael J. Pitman, MD (Moderator); Jonathan M. Bock, MD; Seth M. Cohen, MD; Mark S. Courney, MD

PEDIATRIC OTOLARYNGOLOGY

New Concepts in Pediatric Otolaryngology: A Video Forum
Supported by the Pediatric Otolaryngology Education Committee and the American Society of Pediatric Otolaryngology (ASPO)
Room 312
Carlton J. Zdanski, MD (Moderator); Sanjay R. Parikh, MD; Steven L. Goudy, MD; Christopher J. Hartnick, MD; Soham Roy, MD; Michael J. Rutter, MD; David R. White, MD
TUESDAY, SEPTEMBER 23

RHINOLOGY/ALLERGY

Postop Care after ESS: Packing, Spacers, or Nothing
Valencia Ballroom BC
Martin J. Citardi, MD (Moderator); Joseph Han, MD; Bradley F. Marple, MD; Richard R. Orlandi, MD; Peter J. Wormald, MD

GENERAL OTOLARYNGOLOGY

Scary Cases 2014
Room 414CD
Michael P. Platt, MD (Moderator); Kevin S. Emerick, MD; Andrew H. Murr, MD; Cathy D. Chong, MD; Mark S. Volk, MD; Robert K. Jackler, MD; Zachary M. Soler, MD

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

Vocal Fold Leukoplakia: Controversies in Evaluation and Treatment
Supported by the Laryngology and Brochoesophagology Education Committee
Room 314
Lee M. Akst, MD (Moderator); Kenneth W. Altman, MD, PhD; James A. Burns, MD; Joseph Califano, MD; Harry Quon, MD; Marc J. Remacle, MD, PhD

Scientific Oral Presentations: Endocrine Surgery
Room 205
Moderators: Russell B. Smith, MD; Robert P. Zitsch III, MD

10:30 am Are Patients Undergoing Thyroidectomy in Montreal, Canada During Winter at Increased Risk for Postoperative Hypocalcemia?
Marco A. Mascarella; Carol Nhan, MD; Richard J. Payne, MD

10:36 am Widespread Vitamin D Deficiency in Patients Undergoing Thyroidectomy
Michael C. Singer, MD; Hamad Chaudhry, MD

10:42 am Does Immediate Cytology Improve the Adequacy of Ultrasound-Guided FNAC?
Sunil D. Sharma, MRCS; Gaurav Kumar, MD; Avril Horsburgh; Raed Akkilani; Sanjiv Chawda; Hesham Kaddour, MD

10:48 am Relationship between Obesity, Diabetes, and the Risk of Thyroid Cancer
Benjamin S. Oberman, MD; Aliagsher Khaku; Fabian Camacho; David Goldberg, MD

10:54 am Predictive Value of Intraoperative Parathyroid Hormone for Hypocalcemia following Total Thyroidectomy
David S. H. Kim, MD; Annabel E. Barber, MD; Robert C. Wang, MD

11:00 am Can Preoperative Thyroglobulin Antibody Levels be used as a Marker for Well Differentiated Thyroid Cancer?
Sarah Hosseini; Faisal Zawawi, MD; Rickul Varshney, MD; Alex M. Mlynarek, MD, MSc; Michael P. Hier, MD; Veronique-Isabelle Forest, MD; Richard J. Payne, MD

11:06 am Hypothyroidism following Hemithyroidectomy
Shiomo Merchavy, MD; Tai Marom, MD; Veronique-Isabelle Forest, MD; Benjamin M. Wolff; Alex M. Mlynarek, MD, MSc; Michael P. Hier, MD; Richard J. Payne, MD

11:12 am Analysis of Clinical Negligence Claims Arising from Thyroidectomy in the UK from 1995 - 2013
Rajeev Mathew, MBBS; Chrysostomos Tornari; Ashley Hay, MBChB; Babtunde Odutoye, MBBS
11:18 am  The Role of Modifiable Risk Factors in the Development of Thyroid Cancer
Kyle J. Stansifer, MD; John F. Guynan; Russell B. Smith, MD

11:24 am  Incidence of Post-Operative Hypocalcemia following Total Thyroidectomy versus Completion Thyroidectomy
Shlomo Merchavy, MD; Veronique-Isabelle Forest, MD; Tal Marom, MD; Michael P. Hier, MD; Alex M. Mlynarek, MD, MSc; Tobial McGhugh; Richard J. Payne, MD

11:30 am  Outpatient Thyroid Surgery: Safety of an Optimized Protocol in More than 1,000 Patients
Jamie M. Segel, MD; William Sterling Duke, MD; Jennifer Rene White; David James Terris, MD

11:36 am  Persistently Elevated Parathyroid Hormone Despite Successful Parathyroid Surgery
Anna Kim; William S. Duke, MD; David James Terris, MD

Scientific Oral Presentations: Otology/Neurotology
Room 203
Moderators: Michael R. Holtel, MD; Sujana Chandrasekhar, MD

10:30 am  Stem Cells within PGAT Observed in Vivo After Six Weeks Enhance Facial Nerve Regeneration
Heloisa J. Z. R. Costa, MD, PhD; Ricardo F. Bento, PhD; Raquel Salomone, MD, PhD; Deborah Azzi-Nogueira; Marcio P. Costa, MD, PhD; Luciana A. Haddad, PhD

10:36 am  Antivirals for Idiopathic Sudden Sensorineural Hearing Loss
Zaid Awad, MD; Charlie Huins, MD; David Douglas Pothier, MD

10:42 am  Intratympanic Dexamethasone after High-Dose Intravenous Methyl Prednisolone in Idiopathic Sudden Sensorineural Hearing Loss (ISSNHL)
Elizabeth Amarillo Espitia, MD; Estefana Hernandez-Garca, MD; Monica Hernandez, MD; Raman Gonzalez-Herranz, MD, PhD; Guillermo Plaza, MD, PhD

10:48 am  Transcranial Magnetic Stimulation as a Treatment for Tinnitus
Robert Folmer, PhD; Sarah Theodoroff, PhD

10:54 am  Therapeutic Effect of Middle-Ear Tendon Resection on Middle-Ear Myoclonic Tinnitus
Shi-Nae Park, MD, PhD; Dong Kee Kim, MD, PhD; So Young Park, MD, PhD; Sung-Hun Lee, MD; Kyong-Ho Park, MD, PhD; Sang-Won Yeo, MD

11:00 am  Central Auditory Gain Secondary to Hearing Deprivation and Its Role in Hyperacusis
Juan A. Chiossone-Kerdel, MD; Eleazar E. Grateran, MD; Stefania Goncalves, MD; Sinay Alexandra Ceballos, MD; Daniel Gonzalez-Abascal; David Baguley, PhD

11:06 am  Long-Term Dizziness Handicap in Patients with Vestibular Schwannoma: A Multicenter Cross-Sectional Study
Matthew L. Carlson, MD; Oystein V. Tveiten, MD; Colin Driscoll, MD; Brian A. Neff, MD; Nicole M. Tombers, RN; Morten Lund-Johansen, MD; Michael Link, MD

11:12 am  Vestibular Testing Data in Migraine-Associated Vertigo
Russel R. Kahmke, MD; Jarrod A. Keeler, MD; Douglas Garrison; Erin G. Piker, PhD; Debora L. Tucci, MD, MBA; Heather D. Adkins, MD; David Kaylie, MD
TUESDAY, SEPTEMBER 23

11:18 am  Dizziness Profile and Clinical Features: A Population Based Survey in Sao Paulo City, Brazil
Jeanne Oiticica, MD, PhD; Roseli Saraiva Moreira Bittar, MD, PhD; Raquel Mezzalira, MD; Signe Schuster Grasel, MD

11:24 am  Chiari Type I Malformations in Patients with Dizziness
Nadia K. Mostovych, MD; Thomas O. Wilcox; Gregory J. Artz, MD

11:30 am  Caloric Test and Video-Head-Impulse (v-HIT): Usefulness as Screening Tool of Vestibular Pathology
Elizabeth Amarillo Espitia, MD; Estefana Hernandez-Garca, MD; Nuria Perez-Martan, MD; Guillermo Plaza, MD, PhD

11:36 am  Lateralization Value of Video Head Impulse Test in Peripheral Vestibulopathy: Comparative Study with Caloric Test
Ja-Won Koo, MD, PhD; Byung Yoon Choi, MD; Jae Hong Park, MD; Pona Park, MD

Scientific Oral Presentations: Rhinology/Allergy
Room 204
Moderators: H. Peter Doble II, MD; Brent A. Senior, MD

10:30 am  The Endoscopic Modified Lothrop: Lessons Learned During a 17- Year Experience
Allison N. Rasband-Lindquist, MD; Kathryn A. Leavitt; Ann B. Robinson, MD; David Beahm, MD; Larry A. Hoover, MD

10:36 am  Contemporary Management of Frontal Osteomyelitis
Alexandra Eva Kejner, MD; Lori M. Guillot, MD; Bradford A. Woodworth, MD

10:42 am  Endoscopic Endonasal Removal of Advanced Sinonasal Inverted Papilloma
Yasuyuki Hinohira, MD, PhD; Yoshiyuki Kyo, MD, PhD; So Watanabe, MD, PhD

10:48 am  Endoscopic Resection of Anterolateral Maxillary Sinus Inverted Papillomas
Nichole Dean, DO; Elisa Anne Illing, MD; Bradford A. Woodworth, MD

10:54 am  The Loop Type Maxillary Artery and its Relationship with the Lateral Pterygoid Muscle
Juan E. Salas, MD; Luis M. Garza, MD

11:00 am  Meet the Sac: Endoscopists’ Road Map
Mary Kurien, MS; Amit Tyagi, MS; Aparna Shyam, MD; Sunil Holla, MD

11:06 am  Radiofrequency Coblation versus Intramural Bipolar Cautery for the Treatment of Inferior Turbinate Hypertrophy
Anil N. Shah, MD; Douglas Brewster, MD; Kelly Mitzen; David P. Mullin, MD

11:12 am  Early vs. Delayed Endoscopic Sinus Surgery in Patients with Chronic Rhinosinusitis: Impact on Healthcare Utilization
Michael S. Benninger, MD; Chantal E. Holy, PhD; Raj Sindwani, MD; Claire Hopkins, MD

11:18 am  Prosthetics for Nasoseptal Perforation Repair: A Systematic Review
Robert J. Taylor; Eugene B. Kern, MD; David A. Sherris, MD

11:24 am  Endoscopic Balloon DCR
Kevin E. McLaughlin, MD

11:30 am  Management of CRSwNP's Surgically
Liam M. Masterson, MD; Francesco M. Egro, MD; Jessica C. Bewick, MBBS; Claire Hopkins, MD; Carl M. Philpott, MBChB

11:36 am  Sinonasal Symptomatic Outcomes Following Laser Treatment of Epistaxis Related to Hereditary Hemorrhagic Telangiectasias
Edward C. Wu, MD; Kevin Albert Peng, MD; Christopher F. Thompson, MD; Jeffrey D. Suh, MD; Marilene B. Wang, MD
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Instruction Course
Submission Opens: November 10, 2014
Submission Closes: December 15, 2014
Notifications Sent: March 2015

Miniseminar
Submission Opens: November 10, 2014
Submission Closes: December 15, 2014
Notifications Sent: March 2015

Scientific Oral & Poster
Submission Opens: January 19, 2015
Submission Closes: February 16, 2015
Notifications Sent: April 2015
### INSTRUCTION COURSES

**Specialty Areas**

- BMP: Business of Medicine/Practice Management
- CF: Clinical Fundamentals
- FPRS: Facial Plastic and Reconstructive Surgery
- GEN: General Otolaryngology
- HNS: Head and Neck Surgery
- LBE: Laryngology/Broncho-Esophagology
- ON: Otology/Neurotology
- PED: Pediatric Otolaryngology
- RA: Rhinology/Allergy
- SM: Sleep Medicine

**Presentation Formats**

- ≠ Audience Polling
- ≈ Hands-on
- ◊ = Mini-course

**= Two-hour course**

**= Three-hour course**

**= Non-CME**

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#### 12:30 pm - 1:30 pm

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<td>Daniel G. Deschler, MD, Kevin S. Emerick, MD</td>
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<td><strong>Principles of Reconstruction of Partial Nasal Defects</strong></td>
<td>Timothy J. Woolford, MD</td>
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<td><strong>Reconstruction of Partial Auricular Defects</strong></td>
<td>Gregory J. Renner, MD, C.W. David Chang, MD</td>
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<td><strong>Clinical Fundamental: DVT: How, When, Why in Otolaryngology</strong></td>
<td>Amy C. Hessel, MD</td>
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<td><strong>Optimizing Outcomes in Nasal Valve Surgery</strong></td>
<td>Parul Goyal, MD, Amar C. Suryadevara, MD</td>
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<td><strong>Preparing for a Mass Casualty: The ENT’s Role</strong></td>
<td>Jose E. Barrera, MD, Waleed H. Ezzat, MD</td>
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<td><strong>Managing Mucus: Examining the Evidence</strong></td>
<td>Blake Simpson, MD, Chris McMains, MD</td>
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<td><strong>Pains in the Neck: Treating Globus Pharynges</strong></td>
<td>Lee M. Akst, MD, Seth H. Dailey, MD</td>
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<td><strong>Open Rhinoplasty: Arming Novices for Success</strong></td>
<td>Edmund A. Pribitkin, MD</td>
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<td><strong>Management of Post-Surgical Wound Infection</strong></td>
<td>Douglas B. Chepeha, MD, MPH</td>
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<td>Finding the Hidden Parathyroid Adenoma</td>
<td>Eric M. Genden, MD</td>
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<td>Botulinum Toxin for Headache and Pain</td>
<td>Andrew Blitzer, MD, William J. Binder, MD</td>
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<td>Adding Laryngeal Reinnervation to Your Practice</td>
<td>George S. Goding, MD, Joel H. Blumin, MD</td>
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<td>Humanitarian Missions in São Tome and Príncipe</td>
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<td>Michael Hoffer, MD, Ben J. Balough, MD</td>
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<td>When the Levee Breaks: Evidence-based Epistaxis Management</td>
<td>Nathan B. Sauter, MD, Timothy L. Smith, MD</td>
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<td>PET Scans: The Who, When, Why, and How to Get Reimbursed</td>
<td>Cecelia E. Schmalbach, MD</td>
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<td>Avoiding Management Errors of Suspected Head and Neck Tumors</td>
<td>Kerry D. Olsen, MD, Eric J. Moore, MD</td>
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<td>Brendan C. Stack Jr., MD</td>
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<td>Bacteria in the Sinuses: Friend or Foe?</td>
<td>Steven D. Fletcher, MD, Andrew N. Goldberg, MD</td>
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<td>More than a Headache: Migraine for the Otolaryngologist</td>
<td>Michael T. Teixido, MD, John P. Carey, MD</td>
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<td>The Actor and Singer as Patients of the Laryngologist</td>
<td>Robert T. Sataloff, MD, Michael S. Benninger, MD, Albert L. Meratt, MD, William Riley</td>
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| 12:30 pm – 3:30 pm | **General Otolaryngology Review Course** 3501-3  
Karen T. Pitman, MD  
Bradley Kesser, MD |
| 1:45 pm - 2:45 pm | **Endoscopic and Open Approaches the Anterior Skull Base** 3516-2  
Ehab Y. N. Hanna, MD  
Room 308CD |
|               | **Office-Based Ultrasonography of the Neck** 3522-2  
Hans J. Welkoborsky, MD, PhD  
Lisa A. Orloff, MD  
Room 313 |
|               | **Drug-Induced Sleep Endoscopy in Obstructive Sleep Apnea** 3526-2  
Eric J. Kezirian, MD, MPH  
Winfried Hoehnhorst, MD  
Nico de Vries, MD, PhD  
Room 414CD |
|               | **Evidence-based Management of Invasive Thyroid Cancer** 3602-1  
Joseph Scharpf, MD  
Brian B. Burkey, MD  
Room 204 |
|               | **Evidence-based Decision Making in Cancer of the Oral Cavity** 3603-1  
Nilesh R. Vasan, MD  
Jesus E. Medina, MD  
Room 205 |
|               | **Evidence-based Decision Making in Cancer of the Oral Cavity** 3603-1  
Nilesh R. Vasan, MD  
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Room 205 |
|               | **Drug-Induced Sleep Endoscopy in Obstructive Sleep Apnea** 3526-2  
Eric J. Kezirian, MD, MPH  
Winfried Hoehnhorst, MD  
Nico de Vries, MD, PhD  
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|               | **Clinical Fundamental: Integration of Quality and Safety into Otolaryngology** 3605-1  
Amy C. Hessel, MD  
Randal S. Weber, MD  
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|               | **Evidence-based Approach to Treating Oral Cavity Cancer** 3609-1  
Neil D. Gross, MD  
Dennis H. Kraus, MD  
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|               | **Managing Laryngeal Nerve Injury in Thyroid Surgery** 3611-1  
Edmund A. Pribitkin, MD  
Joseph R. Spiegel, MD  
Room 305 |
|               | **Vocal Fold Leukoplakia: Oncology and Voice Preservation** 3612-1  
Seth H. Dailey, MD  
Room 306 |
|               | **Early Vocal Fold Cancer: A Practical Guide to TLM Cordectomy** 3614-1  
Marc J. Remacle, MD, PhD  
Abie Mendelsohn, MD  
Room 307CD |
|               | **Neurootology: A Case Based Tutorial** 3615-1  
Andrew Blitzer, MD  
Catherine Sinclair, MBBS  
Room 308AB |
|               | **Management of Head and Neck Lymphatic Malformations** 3618-1  
Jonathan A. Perkins, DO  
Scott C. Manning, MD  
Room 309B |

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**TUESDAY, SEPTEMBER 23**

www.entnet.org/annual_meeting
Raising Your Voice-Care Game via Excellence in Stroboscopy
3619-1  VyVy N. Young, MD
Thomas L. Carroll, MD
Room 310A  LBE

Tinnitus Update: Treatment Strategies
3620-1  Michael J. Larouere, MD
John J. Zappia, MD
Room 310B  ON

The Auditory Brainstem Implant and Neurofibromatosis Type 2
3623-1  William H. Slattery, MD
Derald E. Brackmann, MD
Room 314  ON

Sudden Sensorineural Hearing Loss: An Otologic Emergency?
3624-1  Sujana S. Chandrasekhar, MD
James Saunders, MD
Room 315  ON

Diagnostic Evaluation and Management of Acute Facial Palsy
3625-1  Elizabeth H. Toh, MD
Alan G. Micco, MD
Room 414AB  ON

Management of Temporal Bone Trauma
3627-1  Hilary Brodie, MD, PhD
Rodney C. Diaz, MD
VaIncia Ballroom A  ON

Lessons I Have Learned as a Parathyroid Surgeon
3629-1  Brendan C. Stack Jr., MD
Room 312

Mastering the Difficult Septum
3629-1  Mark A. Armeni, MD
Valencia Ballroom D  FPRS

Cochlear Implantation of Obstructed and Malformed Cochleae
3630-1  J. Thomas Roland, MD
Chapin Theater  ON

1:45 pm - 3:45 pm

Mastoidectomy for the General Otolaryngologist
3610-2  Rex S. Haberman, MD
Room 304GH  ON

Pediatric Dysphagia: A Multidisciplinary Approach
3617-2  Deepak Mehta, MD
David R. White, MD
J. Paul Willging, MD
Jeffrey P. Simons, MD
Room 309A  PED

Surgical Decision-Making in Cholesteatoma
3621-2  Eric E. Smouha, MD
Dennis L. Bojrab, MD
Barry E. Hirsch, MD
Simon C. Parisier, MD
Room 312  ON

3:00 pm - 4:00 pm

Salvage Laryngectomy: Myths, Pitfalls and Reality
3703-1  Jesus E. Medina, MD
Room 205  HNS

Prevention of Recurrent Cholesteatoma: A New Concept
3704-1  Haruo Takahashi, MD
Shin-Ichi Haginomori, MD
Room 206  ON

How to Run a Multidisciplinary Tinnitus Clinic
3707-1  Tobias Kleinjung, MD
Berthold Langguth, MD
Room 304AB  ON
FESS Failures: Pearls and Suggestions
3708-1  Noam A. Cohen, MD, PhD
Vijay R. Ramakrishnan, MD
Jeffrey D. Suh, MD
Room 304CD
RA

An Evidence-based Approach to Managing Vestibular Patients
3711-1  David R. Friedland, MD, PhD
Room 305
ON

Evidence-Based Otology for the General Otolaryngologist
3712-1  Michael G. Stewart, MD, MPH
Kevin D. Brown, MD, PhD
Room 306
ON

Invasive Inner Ear Surgery in 3D
3714-1  Lorne S. Parnes, MD
Sumit K. Agrawal, MD
Room 307CD
ON

Practical Use of Vestibular Tests in Clinical Management
3716-1  Moses A. Arriaga, MD, MBA
Micah Klumpp, PhD
Room 308CD
ON

Endoscopic-Assisted Orbital Decompression in Graves’ Disease
3718-1  Stefano Selhan, MD
Room 309B
RA

Chronic Rhinosinusitis in Children
3720-1  Faud M. Baroody, MD
Hassan H. Ramadan, MD, MPH
Room 310B
PED

Otosclerosis Surgery: Past, Present, and Future
3723-1  William H. Slattery, MD
John G. Goddard, MD
Room 314
ON

Diagnosis and Management of Spontaneous CSF Fistula
3724-1  Joe W. Kutz, MD
Pete S. Batra, MD
Room 315
RA

Management of Sialorrhea in Children
3725-1  Paolo Campisi, MD
Room 414AB
PED

Management of Cholesteatoma of the Middle Ear
3726-1  Olivier Sterkers, MD, PhD
Room 414CD
ON

Otitis Media 2014: An Evidence-based Update
3727-1  Craig S. Denay, MD
Cristina Baldassari, MD
Valencia Ballroom A
PED

What if It’s Not Reflux?
3729-1  Brent E. Richardson, MD
Valencia Ballroom D
GEN

Sublingual Immunotherapy (SLIT): Why and How?
3730-1  Sarah K. Wise, MD, MSc
Rodney J. Schlosser, MD
Chapin Theater
RA

Migraine: Don’t Miss It!
3731-1  Frederick A. Godley, MD
Room 101A
GEN

3:00 pm - 5:00 pm

Endoscopic Middle Ear Anatomy
3702-2  Daniele Marchioni, MD
Livio Presutti, MD
Muaza Tarabichi, MD
Room 204
ON

Office-based Procedures for Modern Otolaryngology
3705-2  Yosef P. Krepsi, MD
Room 300
GEN
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<td><strong>Novel Ossicular Reconstruction Techniques</strong></td>
<td>Michael D. Seidman, MD&lt;br&gt;Eric M. Kraus, MD</td>
<td>Room 203</td>
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<td><strong>Pediatric Allergy Update 2014</strong></td>
<td>Marta C. Veling, MD&lt;br&gt;James W. Mirns, MD</td>
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<td><strong>Evaluation and Management of Congenital Aural Atresia</strong></td>
<td>Bradley W. Kesser, MD</td>
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<td><strong>Vestibular Syndromes: A Practical Guide to Management</strong></td>
<td>Simon I. Angeli, MD</td>
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<td><strong>Non-Surgical Therapy for Obstructive Sleep Apnea</strong></td>
<td>Noah S. Siegel, MD&lt;br&gt;Lee M. Shangold, MD</td>
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<td><strong>Pediatric OSA: An Evidence-based Approach</strong></td>
<td>Ron B. Mitchell, MD&lt;br&gt;Norman R. Friedman, MD</td>
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<td><strong>Management of Post-Tonsillectomy Pain in Children</strong></td>
<td>David E. Tunkel, MD&lt;br&gt;Max M. April, MD</td>
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<td><strong>Management of Laryngeal Paralysis in Children</strong></td>
<td>Marshall E. Smith, MD</td>
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<td><strong>Contemporary Therapy of Juvenile Respiratory Papillomatosis</strong></td>
<td>Seth M. Pransky, MD&lt;br&gt;Christopher J. Hartnick, MD</td>
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Minimally Invasive Pituitary Surgery
3816-1 Brent A. Senior, MD Matthew G. Ewend, MD Room 308CD RA

Osteonecrosis of the Head and Neck: Contemporary Management
3817-1 Neal D. Futran, MD D. Gregory Farwell, MD Room 309A HNS

Pediatric Sleep Apnea: Evaluation and Treatment
3818-1 Sally R. Shott, MD Matthew G. Ewend, MD Room 309B SM

Endoscopic-Assisted Approaches to the Orbit
3820-1 Stefano Sellari, MD Paolo Castelnuovo, MD Room 310B RA

An Evidence-based Protocol for Head and Neck Lymphedema
3821-1 Jan S. Levin, PhD Brad G. Smith Room 312 HNS

Management of Pediatric Aerodigestive Tract Foreign Bodies
3823-1 Jeffrey P. Simons, MD Room 314 PED

Novel Approach/Techniques for Management of Facial Pain
3824-1 Bhaskar Ram, MD Sangeeta Maini, MD Room 315 RA

Modified Endoscopic Lothrop Procedure
3825-1 Donald A. Leopold, MD Kristin A. Seiberling, MD Room 414AB RA

TORS for OSAS: How to Achieve the Best Outcomes
3826-1 Claudio Vicini, MD Filippo Montevacchi, MD Room 414CD SM

Endoscopic Cranial Base Resection for Sinonasal Malignancy
3827-1 Carl H. Snyderman, MD Eric W. Wang, MD Valencia Ballroom A RA

Frontal Sinus Trauma: Comprehensive Diagnosis and Treatment
3829-1 Bradley Strong, MD Paul J. Donald, MD Valencia Ballroom D FPRS

Evidence-based Approach to Endoscopic Skull Base Surgery
3830-1 Rodney J. Schlosser, MD Bradford A. Woodworth, MD Chapin Theater RA

Lasers in Laryngology
3831-1 C. Gaelyn Garrett, MD Robert H. Oissof, DMD, MD Room 101A LBE

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Harlene Ginsberg and Jerry M. Schreibstein, MD
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J. Pablo Stolovitzky, MD and Silvia P. Stolovitzky
Ira David Uretzky, MD and Beth J. Uretzky
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Seilesh Babu, MD and Abbey Crooks-Babu, MD
Byron J. Bailey, MD and Margaret Bailey
Roy R. Caniano, MD
C. Ron Cannon, MD and Family
David R. Edelstein, MD and Ms. Eve Lesser
Raghuvir B. Gelot, MD and Carolyn Gelot, RN, MSN, FNP, CORLN
Rebecca D. Golgert, MD
Stacey L. Ishman, MD and Jim McCarthy
Darius Kohan, MD
Alan D. Kornblut, AB, MS, MD, and Alfred Kornblut, CAPT MC USNR-RET (decd.)
Helen F. Krause, MD (decd.)
John H. Krouse, MD, PhD and Helene J. Krouse, PhD, FAAN
Spencer C. Payne, MD
Michael D. Seidman, MD and Lynn Seidman
Nancy L. Snyderman, MD
Duane J. Taylor, MD
Betty S. Tsai, MD
P. Ashley Wackym, MD and Jeremy Wackym
David L. Witsell, MD, MHS
Peak Woo, MD
Ken Yanagisawa, MD and Julie Shi, MD
Mark E. Zafereo Jr., MD

To learn more, contact Ron Sallerson at rsallerson@entnet.org or 1-703-535-3775

As of August - 2014
Wednesday, September 24

Day-at-a-Glance

AAO-HNS Member Resource Center
7:30 am-12:00 pm, Central Lobby

Millennium Society Donor Appreciation Lounge
7:00 am-12:00 pm, Room 207

Scientific Posters on Display
7:30 am-12:00 pm, Hall C

Scientific Program
8:00 am-11:50 am

Instruction Courses
8:00 am-11:15 am

H. Bryan Neel III MD, PhD Distinguished Research Lecture
9:30 am, Room 414AB
Lecturer: Carter Van Waes, MD, PhD

INSTRUCTION COURSES

Specialty Areas

- BMP: Business of Medicine/Practice Management
- CF: Clinical Fundamentals
- FPRS: Facial Plastic and Reconstructive Surgery
- GEN: General Otalaryngology
- HNS: Head and Neck Surgery
- LBE: Laryngology/Broncho-Esophagology
- ON: Otology/Neurotology
- PED: Pediatric Otalaryngology
- RA: Rhinology/Allergy
- SM: Sleep Medicine

Presentation Formats

= Audience Polling
= Hands-on
= Mini-course
= Two-hour course
= Three-hour course
= Non-CME

8:00 am - 9:20 am

Worldwide Otolaryngology Humanitarian Missions
4501-1  Drew M. Horlbeck, MD  Room 304AB  GEN
Mark E. Boston, MD

Complementary and Integrative Medicine (CIM)
4502-1  Michael D. Seidman, MD  Room 304CD  GEN

The Transoral Treatment of Glottic Cancer in 2014
4503-1  Richard V. Smith, MD  Room 304EF  HNS
SCIENTIFIC PROGRAM

8:00 am - 9:20 am

GENERAL OTOLARYNGOLOGY

AAO-HNS Core Miniseminar: Building Research into Your Practice
Supported by the CORE Study Section
Valencia Ballroom BC
Benjamin S. Bleier, MD (Moderator); Samuel Gubbles, MD; Maie St. John, MD; Alan G. Cheng, MD; Bruce K. Tan, MD; Andrew G. Sikora, MD, PhD

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

All that's Red isn’t Reflux: Getting Smarter About LPR
Supported by the Laryngology and Brochoesophagology Education Committee
Room 314
Lee M. Akst, MD (Moderator); Jonathan M. Bock, MD; Thomas L. Carroll, MD; Catherine R. Lintzenich, MD; Lucian Sulica, MD

ENDOCRINE SURGERY

Clinic-Based Decision-Making for Head and Neck Endocrine Disease
Supported by the Endocrine Surgery Committee and the American Head and Neck Society (AHNS)
Room 312
Russell B. Smith, MD (Moderator); Ralph P. Tufano, MD; David L. Steward, MD; Maisie L. Shindo, MD; Salvatore M. Caruana, MD; Jason Patrick Hunt, MD

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY

Facial Plastic Surgery MOC Review Course
Supported by the Facial Plastic and Reconstructive Surgery Education Committee
Valencia Ballroom A
J. Randall Jordan, MD (Moderator); Fred G. Fedok, MD; Andrea Jarchow, MD; Kate E. McCann, MD; John J. Chi, MD

OTOLOGY/NEUROTOLOGY

Managing Complications of Chronic Otitis Media
Supported by the Otolgy and Neurotology Education Committee
Room 315
Dennis I. Bojrab, MD (Moderator); Richard K. Gurgel, MD; Brandon Isaacson, MD; Marc L. Bennett, MD; Eric E. Smouha, MD; James V. Crawford, MD

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT

Patient Satisfaction Charm School: Understanding and Improving Scores in Otolaryngology
Supported by the Patient Safety and Quality Improvement Committee and the Young Physicians Section
Room 414AB
Emily F. Boss, MD, MPH (Moderator); Robert J. Stachler, MD; Mimi S. Kokoska, MD; Marla Rowe-Gorosh, MD
OTOLOGY/NEUROTOLOGY

Sudden Sensorineural Hearing Loss: What Every Otolaryngologist Should Know
Supported by the Otology and Neurotology Education Committee
Valencia Ballroom D
Lawrence R. Lustig, MD (Moderator); Cliff A. Megerian, MD; George B. Wanna, MD; Daniel M. Zeitler, MD; David S. Haynes, MD

HEAD AND NECK SURGERY

The HPV Discussion:
The Latest Data and How to Counsel Patients
Supported by the Head and Neck Surgery Education Committee
Room 414CD
Richard V. Smith, MD (Moderator); Samir S. Kariwala, MD; Kelly M. Malloy, MD; Michael G. Moore, MD; Benoit J. Gosselin, MD

GENERAL OTOLARYNGOLOGY

The Practice of Otolaryngology circa 1900
Supported by the History and Archives Committee
Chapin Theater
Robert K. Jackler, MD (Moderator); J. Regan Thomas, MD; Robert J. Ruben, MD; Lanny G. Close, MD; Eugene N. Myers, MD; Steven M. Zeitels, MD

Scientific Oral Presentations: General Otolaryngology
Room 206
Moderators: B. Tucker Woodson, MD; Mona M. Abaza, MD

8:00 am  Pediatric Head and Neck Gun Shot Wound in the United States: A Cohort Study
  Romaine F. Johnson, MD, MPH; Gopi Shah, MD, MPH

8:06 am  A New Trend in the Management of Esophageal Foreign Body: Transnasal Esophagoscopy
  Chun Wen Shi, MD; Sheng-Po Hao, MD

8:12 am  Systematic Review of HPV-Related Head and Neck Cancers in Latin American Countries
  Amy W. Chu; Indu V. Varier, MD; Alexis Patias, MD; Andrew G. Sikora, MD, PhD

8:18 am  Triune Tube Outcomes
  Jordan C. Schramm, MD, MSc; Austin Person, MPH; Alexandra J. Burt; Anthony J. Yonkers, MD

8:24 am  Gland-Preserving Transfacial Removal of Parotid Stones
  William W. Carroll, MD; Marion B. Gillespie, MSc; Rohan R. Valvekar, MD

8:30 am  Postoperative Pain Scores in Thermal Welding and Conventional Tonsillectomy Techniques: A Randomized Control Study
  Abdul Kareem R. Fida, MD, MSc; Khalil S. Sendi, MD

8:36 am  Tonsillotomy or Tonsillectomy: What do Parents Prefer?
  Sally Stasio, MD; Scott E. Brietzke, MD, MPH; Rahul K. Shah, MD, MBA

8:42 am  How Much Does the Type of Tympanostomy Tube Matter? A Utility- Based Markov- Decision Analysis
  Grace Baik; Scott E. Brietzke, MD, MPH

8:48 am  Human Parafollicular Cancer Cells: A Neuronal Model for Novel Drug Identification to Treat Neuropathic Pain
Caleb Masterson, MS; Paul L. Durham, PhD

8:54 am  Human Papillomavirus Infection in Benign Tonsil Swabs and Tonsillectomy Specimens
Cara C. Cockerill, MD; Laura J. Orvidas, MD; Eric J. Moore, MD; Brian J. Duresko; Nicole Tombers, RN; Franklin R. Cockerill, MD; Bobbi S. Pritt, MD

9:00 am  Substantial Delay in Discharge of Elderly with Tracheotomies: Our 10-Years Experience
Mathieu Bergeron, MD; Nathalie Audet, MD

9:06 am  Maxillary Artery Embolization for the Treatment of Intractable Epistaxis
Erin J. Parlington, MD; Mark Harrigan, MD

Scientific Oral Presentations: General Sessions
Room 204
Moderators: John H. Krouse, MD, PhD; Michele P. Morrison, DO

8:00 am  Efficacy of Antibiotic Prophylaxis Prior to Tympanoplasty with Mastoidectomy for Contaminated Cholesteatoma
Nathan Pierce, MD; Patrick J. Antonelli, MD, MSc

8:06 am  Correlation between DWI-MRI and Findings at Cholesteatoma Surgery: Should DWI-MRI be Standardised Prior to Surgery?
Javier Moraleda Deleito, MD; Jaydip Ray, PhD; Victoria Twigg, MD; Kenneth Wu, MD

8:12 am  3D Endoscopic Endonasal Approach in Skull Base Surgery: Experience on 87 Consecutive Patients
Giancarlo Pecorari, MD; Francesco Zenga, MD; Luca Raimondo, MD; Paolo Pacca, MD; Alessandro Ducati, MD; Massimiliano Garzaro, MD

8:18 am  Targeted Multilevel Surgical Management of Obstructive Sleep Apnea: A Case Series of 44 Patients
Melinda Davis-Malesevich, MD; Iman Naseri, MD; Whitney B. Salem; Luis Vega, DDS; Dale Kraemer, PhD

8:24 am  Primary Surgical Excision of Venous Malformations of the Head and Neck: Subsequent Management and Outcomes
Tara L. Rosenberg, MD; Theodore D. Klug; Amanda B. Tullos; Gresham T. Richter, MD

8:30 am  Lateral Skull Base Reconstruction: A Comparison of the Submental Flap to Free and Regional Flaps
Brittany E. Howard, MD; Richard E. Hayden, MD; David M. Barns, MD; Thomas H. Nagel, MD; Michael L. Hinini, MD; Carlene B. Donald

8:36 am  Tracheoesophageal Prosthesis Use Results in Durable Improvements in Vocalization and Overall Quality of Life
Vlad C. Sandulache, MD, PhD; Ramya Srinivasan; Tiffany Mohr; Jose Pedro Zevallos

8:42 am  Oral Cancer's Early Diagnosis: The Contribute of Contact Endoscopy
Alberto Santos, MD; Marta Gaitho, MD; Teresa M. Barona, PhD; Isabel Fonseca; Ana Luasa Papoila, PhD; Francisco Salvado, PhD; Carlos Macor, MD

8:48 am  The Diagnostic Accuracy of Fine Needle Aspiration for Parotid Malignancy
Andrew P. Stein; Christopher John Brit; MD, Gregory K. Hartig, MD

8:54 am  Evaluation of Lymph Node Metastasis in Oropharyngeal Squamous Cell Carcinoma
Kasim Durmus, MD; Brian J. Boyce, MD; Enver Ozer, MD

9:00 am  Multimodality Management of High Risk Head and Neck Basal Cell Carcinoma Requiring Free Flap Reconstruction
Major B. Burch, MS; Thomas K. Chung, MD; Cecelia E. Schmalbach, MD; Eben L. Rosenthal, MD

9:06 am  **Head and Neck Cancers: Why is it Better to HPV than Not to HPV?**  
Paramita Baruah, MD, PhD; Michael S. W. Lee, MD; Phil Wilson, MD; Juan Carlos Kasik, MD; Ingrid E. Dumitriu, MD, PhD

**Scientific Oral Presentations: Pediatric Otolaryngology**  
**Room 203**  
**Moderators:** Charles A. Elmaraghy, MD; Lawrence M. Simon, MD  

8:00 am  **Safety and Perioperative Complications In Pediatric Otologic Surgery**  
Christopher Roxbury, MD; Jingyan Yang, MS; Jose H. Salazar, MD; Seth Goldstein, MD; Fizan Abdullah, MD; Rahul K. Shah, MD, MBA; Emily F. Boss, MD

8:06 am  **Matrix Metalloproteinases (MMPs) and VEGF: Potential Roles in Formation of High-Flow Vascular Anomalies**  
Tari N. Moak, MS; Emily Miller; Ting Wei, MD; Theodore D. Klug; James Y. Suen, MD; Gresham T. Richter, MD

8:12 am  **Impact of the Seven-Valent Pneumococcal Conjugate Vaccine (PCV7) on Pediatric Tympanostomy Tubes Insertions in Taiwan**  
Mao-Che Wang, MD; Ying-Piao Wang, MD; Pesus Chou

8:18 am  **Safety and Perioperative Complications In Pediatric Otologic Surgery**  
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Mao-Che Wang, MD; Ying-Piao Wang, MD; Pesus Chou

8:48 am  **iPad Audiometry in Canada’s North: A Portable and Cost-Effective Method for Hearing Screening**  
Ryan Rourke, MD; Matthew Bronwich, MD; David Chan

8:54 am  **Outcome of Overlay vs. Underlay in Pediatric Tympanoplasty**  
Melanie Duval, MD, MSc; Albert H. Park, MD

9:00 am  **Outcome of Tympanomastoidectomy in Children with Chronic Otitis Media**  
Morgan R. Bliss, MD; Melanie Duval, MD, MSc; Harlan R. Muntz, MD

9:06 am  **The Role of Tympanostomy Tubes in Surgery for Acquired Retraction Pocket Cholesteatoma**  
Nandini Govil, MD, MPH; Amanda L. Stapleton, MD; Robert F. Yellon, MD

**Scientific Oral Presentations: Rhinology/Allergy**  
**Room 205**
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Presenters</th>
<th>Moderators</th>
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<tbody>
<tr>
<td>8:00 am</td>
<td>Endoscopic Anterior Skull Base Resection: University of Miami Experience</td>
<td>Ralph Abi Hachem, MD; Zoukaa B. Sargi, MD, MPH; Andrew M. Rivera, MD; John William Wood, MD; Ariel B. Grobman, MD; Roy R. Casiano, MD</td>
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<td>8:06 am</td>
<td>Transorbital Transnasal Endoscopic Combined Approach to Anterior and Middle Skull Base: Laboratory Investigation</td>
<td>Abdulaziz A. Alqahtani, MBBS; Iacopo Dallan, MD; Paolo Castelnovo, MD</td>
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<td>8:12 am</td>
<td>Nasoseptal Flap Reconstruction of Pediatric Sellar Defects: A Radiographic Feasibility Study</td>
<td>Patricia L. Purcell, MD; Justin Shinn; Greg E. Davis, MD, MPH; Randolph Otto, MD; Sanjay R. Parikh, MD</td>
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<tr>
<td>8:18 am</td>
<td>Secondary Nasoseptal Flaps for Endoscopic Skull Base Reconstruction: Proof of Concept and Evaluation of Outcomes</td>
<td>Garrett W. Choisy, MD; Jose L. Mattos, MD; Nivedita Sahu, MD; Paul Gardner, MD; Juan Fernandez-Miranda, MD; Carl H. Snyderman, MD; Eric W. Wang, MD</td>
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<td>8:24 am</td>
<td>Association between Physiologic Parameters and Anatomic Location in Spontaneous Cerebrospinal Fluid Leaks</td>
<td>Josef Sharporodsky, MD; Yanjun Xie; David Solomon, MD; Masaru Ishii, MD; Gary Gallia, MD, PhD; Douglas D. Reh, MD; Andrew P. Lane, MD</td>
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<td>8:30 am</td>
<td>Spontaneous Cerebrospinal Fluid Rhinorrhea: Correlation with Body Weight and Radiological Data</td>
<td>Alexandre Karkas, MD; Arnaud Attye, MD; Christian Adrien Righini, MD, PhD; Sebastien Schmerber, MD; Raphaelle Quatre, MD</td>
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<td>8:36 am</td>
<td>Increased Intracranial Pressure in Spontaneous CSF Leak Patients is Not Associated with Papilledema</td>
<td>Geoffrey Aaron, MD; Michael Vaphiades, DO; Kristen Riley, MD; Jennifer Doyle, MD; Bradford A. Woodworth, MD</td>
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<td>8:42 am</td>
<td>The Effect of Surgical Approach on Outcomes Following Pituitary Tumor Resection</td>
<td>Parul Goyal, MD; Jennifer A. Villwock, MD; Mark R. Villwock, MS; Eric Deshaies, MD</td>
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<td>8:48 am</td>
<td>Analysis of Potential Determinants of a Reduced Intercarotid Distance in Patients Undergoing Endoscopic Transsphenoidal Surgery</td>
<td>Marco A. Mascarella; Reza Forghani, MD, PhD; Denis Sirhan, MD; Salvatore Di Maio, MD; Gerard Mohr, MD; Anthony G. Zeltouni, MD; Marc A. Tewfik, MD</td>
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<td>9:54 am</td>
<td>Combined Rhinosurgical and Neurosurgical Management of Intradural Angiofibromas</td>
<td>Mohsen Naraghi, MD; Hooshang Saberi, MD; Masoud Boroojerdi, MD</td>
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<td>10:00 am</td>
<td>Management of the Orbit During Endoscopic Sinonasal Tumor Resection</td>
<td>Brandon L. Christianson, MD; Brian Harrow; Carlos Perez, MD; Pete S. Batra, MD</td>
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<td>10:06 am</td>
<td>Surgical Management of Spontaneous and Traumatic Anterior Skull Base Meningoceles: Technique and Pitfalls</td>
<td>Iman Naseri, MD; Demetri Annaoutakis, MD; Michael Petr, MD, PhD; Whitney B. Salem; Sukhwinder J. Sandhu, MD; Daryoush Tavanaeipour, MD</td>
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INSTRUCTION COURSES

9:15 am - 10:15 am

Chronic Cough in Children
4601-1 Samantha Anne, MD, MSc
Robert F. Yellon, MD
Room 304AB PED

Sinonasal Malignancy: What Every Practitioner Should Know
4602-1 Anand K. Devaiah, MD
Ivan H. El-Sayed, MD
Room 304CD HNS

9:15 am - 11:15 am

Stertor, Stridor, and Babies that Squeak a Practical Approach
4603-2 Matthew T. Brigger, MD, MPH
Christopher J. Hartnick, MD
Room 304EF PED

SCIENTIFIC PROGRAM

9:30 am - 10:20 am

LARYNGOLOGY/BRONCHO-ESOPHAGOLOGY

Cough: Contemporary Challenges
Supported by the Airway and Swallowing Committee
Chapin Theater
Robert J. Stachler, MD (Moderator); Jonathan M. Bock, MD; Seth M. Cohen, MD; Kenneth W. Altman, MD, PhD

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY

Facial Trauma, Concussions, and Return to Play: What Otolaryngologists Need to Know
Supported by the Facial Plastic and Reconstructive Surgery Education Committee and the Trauma Committee
Room 312
Robert M. Kellman, MD (Moderator); Sherard A. Tatum, MD; Anita S. Jeyakumar, MD; Travis T. Tollefson, MD; Timothy D. Doerr, MD; Todd M. Brickman, MD, PhD

HEAD AND NECK SURGERY

Head and Neck Paragangliomas: A Case-Oriented Approach to Evaluation and Management
Supported by the Head and Neck Surgery & Oncology Committee and the Otology and Neurotology Education Committee
Room 414CD
Brian Nussenbaum, MD (Moderator); James L. Netterville, MD; Michael G. Moore, MD; Brandon Isaacson, MD; William M. Mendenhall, MD

GENERAL OTOLARYNGOLOGY

High-Performance Operating Rooms: Beyond the Checklist
Room 314
Giri Venkatraman, MD, MBA (Moderator); David E. Eibling, MD; David W. Roberson, MD
Office-Based Surgical Procedures in Rhinology

Supported by the Rhinology and Paranasal Sinus Committee

Valencia Ballroom D

Jivianne T. Lee, MD (Moderator); Joseph Han, MD; Peter H. Hwang, MD; Scott P. Stringer, MD

Pediatric Tonsillectomy after the Black Box: Strategies for Keeping Our Patients Safe and Comfortable

Supported by the Patient Safety and Quality Improvement Committee

Valencia Ballroom A

Julie L. Goldman, MD (Moderator); Lee D. Eisenberg, MD, MPH; Stacey L. Ishman, MD, MPH; Michael J. Brenner, MD; Carolyn Bannister, MD

Salvage Laryngectomy, Decision Making to Optimize the Result: Neck Dissection? Salivary Bypass? Flap Assisted Closure?

Supported by the Microvascular Committee

Valencia Ballroom BC

Douglas B. Chepeha, MD, MPH (Moderator); Ralph W. Gilbert, MD; Urjeet Patel, MD

9:30 am

Osteocutaneous Radial Forearm Flap Reconstruction for Naso-Ethmoid-Orbital Defects

Steven B. Cannady, MD; Jason G. Newman, MD; Oren Friedman, MD; Ara A. Chalian, MD; Mark K. Wax, MD

9:36 am

Facial Reanimation Technique for Facial Nerve Paralysis Following Cancer Resection

Alexandra Eva Kejner, MD; Eben L. Rosenthal, MD

9:42 am

Evidence-Based Soft Tissue Reconstruction: Incorporating Lessons Learned from Social Perception

Jacob K. Dey; Masaru Ishii, MD, PhD; Koff D.O. Boahene, MD; Patrick J. Byrne, MD; Lisa E. Ishii, MD

9:48 am

Free Flap Reconstruction Experience and Outcomes in a Low Volume Setting Over 20 Years

Tristan Klosterman, MD; Eric Siu; Lisa Morris, MD; Sherard A. Tatum, MD

9:54 am

Head and Neck Reconstruction with Chimeric Anterolateral Thigh Free Flap: Indications, Outcomes and Technical Considerations

Bradley R. Lawson, MD; Mauricio Alejandro Moreno, MD

10:00 am

Free Flap Reconstruction Outcomes Among Elderly Patients

Richard A. Goldman, MD; Adam Luginbuhl, MD; Joseph Curry, MD; David M. Cognetti, MD; Howard D. Krein, MD; Ryan Heffelfinger, MD

10:06 am

Post-operative Use of Vasopressors in Head and Neck Microvascular Reconstruction

Anstey M. Roche, MD; Michael Sterling, MD; Mark El-Deiry, MD; J. Trad Wadsworth, MD

10:12 am

Intraoperative Tumor Imaging with Indocyanine Green in Head and Neck Cancer Patients

Thomas K. Chung, MD; Joy Kovar, MS; Walter Bell, MD; Margaret Brandwein-Gensler, MD; Eben L. Rosenthal, MD
Scientific Oral Presentations: Laryngology/Broncho-Esophagology
Room 203
Moderators: Charles A. Elmaraghy, MD; Mona Abaza, MD

9:30 am Outcomes and Resource Utilization of Endoscopic Mass-Closure Technique for Laryngeal Clefts
Karthik Balakrishnan, MD; Esther Cheng, MD; Alessandro de Alarcon, MD, MPH; Douglas R. Sidell, MD; Catherine K. Hart, MD; Michael J. Rutter, MD

9:36 am Utility of High Dose Corticosteroids in the Treatment of ACE-Inhibitor Induced Angioedema
John N. Bangiyev, DO; Monica Chau Q. Kieu, DO; Amrita Ray, DO; Salvatore Cavaliere, DO; Esmael H. Amjad, MD

9:42 am Diagnostic Yield of Computed Tomography in Evaluation of Vocal Fold Paresis: Is it Worth it?
Paul M. Paddle, MD; Masaany Mansor, MD; Phillip Song, MD; Ramon A. Franco, MD

9:48 am Type 1 Thyroplasty as an Outpatient Surgery: Safety and Cost Effectiveness
Brian C. Gross, MD; Neil S. Patel, MD; Dale C. Ekbom, MD

9:54 am Non Invasive Versus Rigid Endoscopic Evaluation of Upper Aerodigestive Tract in Penetrating Neck Trauma
Scharukh Jalisi, MD; Jeffrey S. Jumaily, MD; Leslie Winter, MD; Peter Burke, MD

10:00 am Dysphonia and Cystic Fibrosis
John Willis, MD; Stephanie Misono, MD; Deirdre D. Michael, PhD

10:12 am Functional and Histological Evaluation Following Canine Vocal-Fold Reconstruction Using Combined Thyroid Ala Perichondrium Flaps
Rachel C. Glab; McLean Gunderson; Matthew R. Hoffman, PhD; Allison L. Maytag; David Yang, MD; Jack J. Jia, MD, PhD; Seth H. Dailey, MD

Scientific Oral Presentations: Rhinology/Allergy
Room 205
Moderators: H. Peter Doble II, MD; Ayesha N. Khalid, MD

9:30 am Awareness of General Practitioners (GPs) of the Current Recommended Management Guidelines for Allergic Rhinitis
Nnaemeka C. E. Okpala, MD

9:36 am Correlation between Rhinomanometry and NOSE Scale and Measurement of Therapeutic Success in Nasal Obstruction
Hugo Lara Sanchez, MD, MSc; Candelas Álvarez Nuao, MD; Elisa Gil-Carcedo Saudo, MD, PhD; Agustan Mayo Iscar, PhD; Luis Ángel Vallejo Valdezate, MD; Luis Mara Gil-Carcedo Garca, MD, PhD

9:42 am SNOT 22 in a Control Population
Sally Erokinke, MBChB; Carl M. Philpott, MBChB

9:48 am Antigen-Specific Immunoglobulin Production in Ethmoid Mucosa in Refractory Chronic Rhinosinusitis with Nasal Polyps
Shoji Matsune, MD, PhD; Nozomu Wakayama, MD; Satoshi Yamaguchi, MD; Kuwon Sekine, MD, PhD; Mariko Ishida, MD; Yuma Yoshioka, MD; Kimihito Okubo, MD

9:54 am Role of IL-5 and IL-8 in the Pathogenesis of Nasal Polyps
Chiara Rosato, MD; Giulio Pagliuca, MD, PhD; Salvatore Martellucci, MD; Marco De Vincentiis, MD; Claudio Di Cristofano, MD; Bruna Cerbelli, MD; Andrea Gallo, MD, PhD

10:00 am Outcomes of Pressure-Induced Cranial Neuropathies from Allergic Fungal Rhinosinusitis
Elisa Anne Illing, MD; Quinn Dunlap; Bradford A. Woodworth, MD
10:06 am  Correlation between Nasal Nitric Oxide and Quality of Life Improvements after Sinus Surgery
Chia-Hsiang Fu, MD; Ta-Jen Lee, MD; Chi-Che Huang, MD; Po-Hung Chang, MD

10:12 am  Health-Related Quality of Life and its Contributory Factors in Allergic Rhinitis Patients in Nigeria
Stephen O. Adebola, MD; Babatunde Abidoye, PhD; Foluwasaayo E. Ologe, MD; Oyebola E. Adebola, MD; Benjamin A. Oyejola, PhD

Scientific Oral Presentations: Sleep Medicine
Room 206
Moderators: B. Tucker Woodson, MD; Eric J. Kezirian, MD

9:30 am  Adjustable Minimally-Invasive Hyoid Myotomy and Suspension with Uvulopalatopharyngoplasty for the Treatment of Obstructive Sleep Apnea
Jason R. Van Tassel, MD

9:36 am  Taste Disturbance Following Coblator Open Tongue Base Resection for OSA
Hsin-Ching Lin, MD; Michael Friedman, MD

9:42 am  Ablation-Assisted Uvulopalatopharyngoplasty Technique for OSAS Treatment: A Five-Year Follow-Up Study
Mang Xiao, MD

9:48 am  Severity of Childhood Obstructive Sleep Apnea and Hypertension Improved after Adenotonsillectomy
Li-Ang Lee, MD; Hsu-Yu Li, MD; Tuan-Jen Fang, MD; Yu-Sheng Lin, MD; Yu-Shu Huang, MD; Jen-Fu Hsu, MD

9:54 am  The Effect of Sleep Disruption on Post Operative Pain
Anya J. Miller, MD; Thomas Roth, PhD; Timothy Rueshs, MD; Kathleen L. Yaremchuk, MD

10:00 am  Does OSA in Children with Small Tonsils Improve after Adenotonsillectomy?
Kareem O. Tawfik, MD; Alice L. Tang, MD; James R. Benke; Stacey L. Ishman, MD, MPH

10:06 am  The Effect of Upper Airway Surgery on Continuous Positive Airway Pressure Levels and Patient’s Adherence
Christopher M. Ayers, MD; Shivangi Lohia; Shaun A. Nguyen, MD; Marion B. Gillespie, MD, MSc

10:12 am  Post-Operative Complications in Obstructive Sleep Apnea Patients: A Comparison between Single and Multilevel Surgery
Ching Yee Chan, MBBS; Hong Juan Han, MMed; Song Tar Toh, MBBS, MMED (ORL), MRCSEd

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International Tinnitus Miniseminar:
The Martha Entenmann Tinnitus Research Center Inc.: Abraham Shulman, MD; and Barbara Goldstein, PhD; International Tinnitus Miniseminar: New Concepts in Electrophysiology and Tinnitus
Wednesday, September 24
10:30 am – 11:50 am, Room 206
Michael Hoffer, MD (Moderator); Carlos Olivera, MD; Leslie Prichep, MD; Tobias Kleinjung, MD; Abraham Shulman, MD

Funded by a grant to the Foundation from the Martha Entenmann Foundation
### INSTRUCTION COURSES

**10:30 am - 11:30 am**

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<th>Course Title</th>
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<td>CRS: Optimizing Surgery for Topical Delivery</td>
<td>James N. Palmer, MD, Nithin D. Adappa, MD</td>
<td>304AB</td>
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<td>Bedside Tracheotomy: From Program to Practice</td>
<td>Bradley A. Schiff, MD</td>
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### SCIENTIFIC PROGRAM

**10:30 am - 11:50 am**

**BUSINESS OF MEDICINE/PRACTICE MANAGEMENT**

**Alternative Payment Models and Academy Advocacy for Future Physician Payment**
Supported by the Physician Payment Policy Workgroup
*Room 414CD*
Jane T. Dillon, MD, MBA (Moderator); Richard W. Waguespack, MD; Emily F. Boss, MD; Robert R. Lorenz, MD; Randal S. Weber, MD

**GENERAL OTOLARYNGOLOGY**

**Avoiding the Deadly Sins of Humanitarian Missions: How to Do Good Better**
Supported by the Ethics and the Humanitarian Efforts Committees
*Room 312*
Daniel Chelius, MD, FAAP (Moderator); James Nettivel, MD; Susan R. Cordes, MD; Mark E. Zafereo, MD; Edwin T. Liyonmbo, MD

**GENERAL OTOLARYNGOLOGY**

**Can Simulation and Human Factors Improve Systems and Safety?**
*Room 314*
Ellen S. Deutsch, MD (Moderator); F. Jacob Seagull, PhD; Kaalan E. Johnson, MD; Kelly M. Malloy, MD; David E. Eibling, MD

**GENERAL OTOLARYNGOLOGY**

**Cerebrospinal Fluid Disorders: A Multidisciplinary Approach to Diagnosis and Management for the Practicing Otolaryngologist**
Supported by the Skull Base Surgery Committee
*Chapin Theater*
John C. Goddard, MD (Moderator); Rodney J. Schlosser, MD; Gregory J. Artz, MD; Douglas D. Backous, MD; Ivan H. El-Sayed, MD; Gregory P. Lekovic, MD, PhD

**RHINOLOGY/ALLERGY**

**From Start to Finish: Management of CRS**
*Valencia Ballroom D*
Eric H. Hollbrook, MD (Moderator); Pete S. Batra, MD; Rakesh K. Chandra, MD; Alexander G. Chiu, MD; Joseph Han, MD; Raj Sindwani, MD

**HEAD AND NECK SURGERY**

**Management of Nasopharyngeal Carcinoma NPC: State of the Art**
Supported by the Asian Society of Head & Neck Oncology
*Room 315*
Eugene N. Myers, MD, (Moderator); Jin-Ching Lin, MD, PhD; Chih-Wen Twu, MD, MSc; K. S. Clifford Chao, MD
SLEEP MEDICINE

**Palate Surgery in Obstructive Sleep Apnea: How to Choose Among the Options**
Supported by the Sleep Disorders Committee

**Room 414AB**
Eric J. Kezirian, MD, MPH (Moderator); Edward M. Weaver, MD, MPH; Hsueh-Yu Li, MD; B. Tucker Woodson, MD; Michael Friedman, MD; Michel B. Cahail, MD; Kenny P. Pang, MD

BUSINESS OF MEDICINE/PRACTICE MANAGEMENT

**Take the Media Plunge: Become an Expert, Enhance Your Practice, Engage Your Patients**
Supported by the Media and Public Relations Committee

**Valencia Ballroom A**
Wendy B. Stern, MD (Moderator); Dale A. Tylor, MD; Marni Jameson, MS; Melissa Medalie

FACIAL PLASTIC AND RECONSTRUCTIVE SURGERY

**Technical Pearls in Rhinoplasty**
Supported by the Facial Plastic and Reconstructive Surgery Education Committee

**Valencia Ballroom BC**
Edmund A. Pribitkin, MD (Moderator); Steven R. Mobley, MD; Clinton D. Humphrey, MD; Grant S. Hamilton, MD

Scientific Oral Presentations: Head and Neck Potpourri

**Room 205**
Moderators: Christopher H. Rassekh, MD; Russell B. Smith, MD

- **10:30 am** Hospital Volume and Failure to Rescue in Head and Neck Cancer Surgery
  Carolyn L. Mulvey, BSE; Christine G. Gourin, MD, MPH
- **10:36 am** Learning Curves of Syllabus Head and Neck Procedures: Monitoring Trainees’ Performance and Progress
  Zaid Awad, MD; Lindsay Hayden; Keerthini Muthuswamy; Paul Ziprin, MD; Ara Darzi; Neil S. Tolley, MD
- **10:42 am** Facial Nerve Monitoring During Parotidectomy: A Systematic Review and Meta-Analysis
  Amit J. Sood; Jeffrey J. Houlton, MD; Shaun A. Nguyen, MD; Marion B. Gillespie, MD, MSc
- **10:48 am** Predictors of Adverse Events after Neck Dissection: An Analysis of the 2006 to 2011 NSQIP Datasets
  Jessica Somerville, MD; Jon Verhalen, MD; Sandeep Samant, MD; Umang Jain, MD; John Kim, MD; Sujata Saha
- **10:54 am** Surgical Management of Olfactory Neuroblastoma: Outcomes and Patterns of Failure
  Guy J. Petruzzelli, MD, PhD; Thomas C. Origitano, MD, PhD; Richard Byrne, MD
- **11:00 am** Surgical Outcomes in Primary Parotid Cancer
  Richard B. Cannon, MD; Luke Oliver Buchmann, MD; Breannie E. Teraekds, MD; Ying J. Hitchcock, MD; Jason Patrick Hunt, MD
- **11:06 am** Metabolic Tumour Volume as a Prognostic Factor for Oral Cavity Cancer Treated with Primary Surgery
  Han Zhang, MD; Jonathan T. Abele, MD; Dean T. Jeffery, MD; Hadi Seikaly, MD; Jeffrey R. Harris; Daniel Ambrose O’Connell, MD
11:12 am  Factors Affecting Delays to Surgery for Oral Tongue Carcinoma in the National Cancer Data Base
Cheryl C. Nocon, MD; Erik Liederbach; Mark Sisco, MD; Katherine Yao, MD; Mark E. Gerber, MD; Carol M. Lewis, MD; Mihir K. Bhayani, MD

11:18 am  Epithelial-Myoepithelial Carcinoma of the Salivary Glands: An Analysis of 246 Cases
Alejandro Vazquez, MD; Christine M. D’Aguillo; William Farver; Rami Y. Abdou, MD; Soly Bareides, MD; Jean Anderson Eloy; Chan W. Park, MD

11:24 am  Olfactory Neuroblastoma: Fate of the Neck - A Long Term Multicentre Retrospective Study
Sunny B. Nalavenkata, MBBS; Nithin D. Adappa, MD; Rodney J. Schlosser, MD; Eric W. Wang, MD; Bradford A. Woodworth, MD; Robert Smee, MD; Richard J. Harvey, MD

11:30 am  Survival with Spindle Cell Carcinoma Compared to Conventional Squamous Cell Carcinoma
Tristan C. Bice; Mark A. Merkley, MD, PhD; Paul G. Van Der Sloot, MD; Shawn D. Newlands, MD, PhD; Matthew Christopher Miller, MD

Scientific Oral Presentations: Otology/Neurotology
Room 203
Moderators: Patrick J. Antonelli, MD, MSc; Brandon Isaacson, MD

10:30 am  Ubiquitous Aspirin: A Systematic Review of its Impact on Sensorineural Hearing Loss
Meghann E. Kyle, PhD; James C. Wang, BSE; Jennifer J. Shin, MD

10:36 am  Comparison of Hearing Status of HIV-Exposed and Unexposed Newborns and Immuno-Virologic Correlates in HIV-Exposed Newborns
Ayotunde J. Fasunla, MD, MSc; Onyekwere George Nwaorgu, MBBS; Babafemi Taiwo, MD; David O. Olaleye, PhD; Robert L. Murphy, PhD; Isaac F. Adewole, MBBS; Olusegun O. Akinyinka, PhD

10:42 am  Long-Term Hearing Outcomes in Patients with Enlarged Endolymphatic Duct and or Sac on MRI
Christopher A. York, MD; Tim N. Booth, MD; Romaine F. Johnson, MD, MPH; Brandon Isaacson, MD; Peter S. Roland, MD

10:48 am  OtoSeq Next-Generation DNA Sequencing in the Evaluation of Congenital Sensorineural Hearing Loss
Brian Goico, MD; Jennifer Holle, MS; VI Manickam; Judith Johnson, MS; Theru A. Silvakanamaran, MD; Keijian Zhang; John H. Greinwald, MD

10:54 am  The Nervus Intermedius in Children with Cochlear Nerve Deficiency Submitted to Auditory Brainstem Implantation
Giacomo Colletti, MD; Marco Mandala, MD; Liliana Colletti, MD; Vittorio Colletti, MD

11:00 am  Expression of HDAC2 in Peripheral Blood Mononuclear Cells from Patients with Sudden Sensorineural Hearing Loss
Wandong She, MS; Jie Hou; Yanhong Dai, MD; Qiongqiong Zhou, MD; Lisheng Xie

11:06 am  Assessment of Mitochondrial Function and Membrane Potential in PK1 Cells Treated with Gentamicin and MitoQ
Maria Raye Anne V. Ng; Patrick J. Antonelli, MD, MSc; Kevin Raisch, PhD; Jerin Joseph; Carolyn P. Ojano-Dirain, PhD

11:12 am  Injuries and Mechanisms Causing HSV1 Reactivation in Peripheral Neurons
Pamela C. Roehm, MD, PhD
11:18 am Use of Concentrated Light to Determine Middle Ear Effusion: The Laser Otoscope
Rahul Seth, MD; Matthew R. Ford; Karen A. Hawley, MD; Andrew Rollins, PhD; Paul R. Krakovitz, MD

Terry Platto; Authiana Hurbon; Suzu Igarashi; Edward Meister, PhD; Allison Dunn; Abraham Jacob, MD

11:30 am Efficacy of L-N-Acetyl Cysteine in the Prevention of Gentamicin Vestibulotoxicity in Rats
Venkatakarthikeyan Chokkalingam, MD; Esperanza Bas; Stefania Goncalves, MD; Michelle Adams; Suhrud Rajguru, PhD; Thomas R. Van De Water, PhD; Simon I. Angell, MD

11:36 am Incidence of Cisplatin Ototoxicity in Head and Neck Cancer Patients
Joshua B. Greene, MD; Robert T. Standring, MD; Francis Thomas Hall, MBChB; Farzan Siddiqui, MD; Syed F. Ahsan, MD

Scientific Oral Presentations: Rhinology/Allergy
Room 204
Moderators: Ayesha Khalid, MD; Elisa A. Illing, MD

10:30 am The Smell Decline as a Good Predictor of Sinonasal Polyposis Recurrence after Endoscopic Surgery
Mehdi Bakhshaee, MD; Masoud Naseri, MD; Fereshteh Esmatinia, MD

10:36 am Olfactory Improvement and Decline in Patients with Post-traumatic Olfactory Dysfunction
Chin-Lung Kuo, MD; La-Yuan Fan, MD; An-Suey Shiao, MD; Chih-Hung Shu, MD, PhD

10:42 am Measurement of Nasal Polyp Patient Symptomatology over Time Using the Sinonasogram: Initial Validation
William G. Albergotti, MD; Stella Lee, MD; Berrylin J. Ferguson, MD

10:48 am The Association between Airline Flight Time and Sinus Disease
Josef Shargorodsky, MD; Laura Zheng, MS; Frances Stillman, PhD; Ana Navas-Acin, MD, PhD; Douglas D. Reh, MD

10:54 am Chronic Rhinosinusitis and Mood Disturbance
Sally Erskine, MBChB; Carl M. Philpott, MBChB

11:00 am Sinus Disease Following Total Laryngectomy: A Radiographic Review
Sarah M. Kidwai; Arjun K. Parasher, MD; Abib A. Aghbetoba, MD; Alfred Marc Iloreta, MD; Satish Govindaraj, MD; Brett A. Miles, MD

11:06 am Exclusive Endoscopic Resection of Juvenile Nasopharyngeal Angiofibroma: A Systematic Review of the Literature
Nadim P. Khoueir, MD; Nicolas Nicolas, MD; Ziad Rohayem, MD; Amine Haddad, MD; Walid M. Abou Hamad, MD

11:12 am Relationship between Pediatric Concha Bullosa and Septal Deviation
Amin Amali, MD; Amir Arvin Sazgar; Mohammad Sadeghi; Babak Saedi; Maziar Motiee Langeroudi; Mehrdad Jafari, MD; Ali Bagheri Hagh, MD

11:18 am Medical Treatment of Traumatic Anosmia
Rong-San Jiang, MD, PhD

11:24 am Effect of Strong Fragrance on Olfactory Detection Thresholds of Health Workers at UCH Ibadan, Nigeria
Ayotunde J. Fasunla, MD, MSc; David D. Douglas, MBBS; Aderemi A. Adeosun, MBBS; Slie Steinbach, MD; Onyekwere G. Nwaorgu, MBBS

11:30 am Binary versus 5-Point Likert Scale in Assessing Otolaryngology Trainees in Endoscopic Sinus Surgery
Zaid Awad, MD; Ali Sagban Taght; Priya Sethukumar, MBBS; Paul Ziprin, MD;
Poster Presentation Breakfast

Hall C
Tuesday, September 23, 7:00 am–8:00 am

This networking event will provide poster presenters an opportunity to interact and discuss their research with 2014 Annual Meeting & OTO EXPO™ attendees.

Poster Awards
Visit the Poster Hall, Hall C, to congratulate this year’s poster award winners.

- **Blue Ribbon**
  - Best in show

- **Red Ribbon**
  - Best Basic Science

- **White Ribbon**
  - Honorable Mention

- **Gold Ribbon**

- **Silver Ribbon**
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Ara Darzi; Neil S. Tolley, MD

Business of Medicine/Practice Management

SP 100  Driving Revenue During Turbulent Times
Joel Ellis

SP 101  Regional Variation in Procedures and Charges for Ambulatory Endoscopic Sinus Surgery
Neil Bhattacharyya, MD; Lynn J. Kepnes, MSN NP

SP 102  The Impact of Physician Extenders in an Academic Otolaryngology Residency Program: Initial Experiences
Karthik Rajasekaran, MD; Michael S. Benninger, MD; Alan Kominsky, MD; Paul C. Bryson, MD

SP 103  Trends in Pursuit of Otolaryngology Subspecialty Fellowship
Meghan N. Wilson, MD; Kanwar S. Kelley, MD; John Michael Carter, MD; Nikhila P. Raol, MD

Facial Plastic and Reconstructive Surgery

SP 104  A Method to Quantify the Confounding Effect of the Nasal Cycle on Nasal Airway Obstruction
Ruchin Patel, MD; Guilherme J.M. Garcia, PhD; Dennis O. Frank-Ito, PhD; Julia S. Kimbell, MD; John S. Rhee, MD, MPH

SP 105  A Pilot Study of Muscle-Nerve-Muscle Grafting for Facial Reanimation in Rats
Jeffrey M. Hotaling, MD; Steven Charous, MD; Joshua M. Sappington, MD; Eileen Foecking, MD, PhD

SP 106  Cleft Lip/Palate: More Than a Quarter of a Million Surgeries over the Past Decade
Carolyn Brydon; Julia Conway; Rochelle Kling; Lakshmi Mehta, MD; Ethylvin W. Jabs, MD; Peter J. Taub, MD

SP 107  Combined Endovascular and Surgical Treatment of Cervico-Facial ArterioVenous Malformations

Poster Presentation Breakfast

Learn about the latest advancements in research directly from the source!

Ask questions and share experiences with poster presenters in a truly interactive session.

Tuesday, September 23, 7:00 am - 8:00 am, Hall C

Poster Hours:

Sunday, September 21 10:00 am – 5:00 pm
Monday, September 22 7:30 am – 5:00 pm
Tuesday, September 23 7:30 am – 5:00 pm
Wednesday, September 24 7:30 am – 11:00 am
SP 108 Comparative Finite-Element Analysis for Defect Reconstruction with Rhomboid Flaps
Mausumi N. Syamal, MD; Scott Lovald, PhD; Jorge A. Ochoa, PhD; Tamer Abdel-Halim Ghanem, MD, PhD

SP 109 Comparison of Self-Esteem Status in Aesthetic and Functional Rhinoplasty Patients
Mohsen Naraghi, MD; Mohammad Atari

SP 110 Comprehensive Repair of the Nasal Valve in the Management of Obstructive Sleep Apnea
Stefan W. Shuaib, MD; Howard D. Stupak, MD

SP 111 Endonasal Septal Perforation Repair Using an Interpositional Porcine Dermal Collagen Implant
Nikul Amin; Irfan Syed, MD; Benjamin Hunter, MD; David N. Roberts, MD

SP 112 Facial Fractures Secondary to Bicycle Accidents
Quinn T. Orb; Michael Taggart; Bryce Williams, DDS; Preston D. Ward, MD

SP 113 Fistula Rate after Primary Repair of Cleft Palate: Novel Exposed Inverted Horizontal Mattress Nasal Closure
Blake J. Hyde, MD; Caleb M. Steffen, MD; Jason J. Miller, MD

SP 114 Gradual Approach to Refinement of The Nasal Tip: Surgical Results
Thiago Bittencourt Ottoni Carvalho, MD; Emerson Thomazi, MD; Rafael Panizza Leutz, MD; Rafael P. S. F. Souza, MD; Fernando Drimel Molina, MD, PhD; Vania Belintani Piatto, MD, PhD; Josa Victor Maniglia, MD, PhD

SP 115 Immediate Endosseous Dental Implant Placement in Osteocutaneous Radial Forearm Free Flap
Lauren B. Moneta, MD; Jessica J. Peck, MD; Siavash Eftekhar, MD; Daniel Petrisor, MD; Mark K. Wax, MD

SP 116 Mandibular Salvage: A Novel Application of the ALT Free Flap for Osteoradionecrosis of the Mandible
Timothy M. Haffey, MD; Peter C. Revenaugh, MD; Karthik Rajasekaran, MD; Michael A. Fritz, MD

SP 117 Nasal Fractures in Children and Adolescents: Mechanisms of Injury and Efficacy of Closed Reduction
Clive Liu; Andrew Richardson Scott, MD

SP 118 New Experimental Model of Facial Nerve Function and Integrity to Evaluate Regeneration
Ricardo F. Bento, MD, PhD; Heloisa J. Z. R. Costa, MD, PhD; Silvia Bona Nascimento, MD; Ricardo J. R. Ferreira, MD; Raquel Salomone, MD, PhD

SP 119 Objective Assessment of Post-Operative Outcomes in Endonasal Spreader Grafts
Caroline C. Jeffery, MD; Khalid Ansari, MD; David Cote, MD

SP 120 Preoperative MRA for Patient Selection in Free Fibula Flap: is a Venous Phase Indicated?
Bradley R. Lawson, MD; Roopa Ram, MD; Tarun Pandey, MD; Kedar Jambhekar, MD; Mauricio Alejandro Moreno, MD

SP 121 Preoperative Peroneal Perforator Mapping with Dynamic, Time-Resolved Magnetic Resonance Angiography
Bradley R. Lawson, MD; Roopa Ram, MD; Tarun Pandey, MD; Kedar Jambhekar, MD; Mauricio Alejandro Moreno, MD

SP 122 Quantitative Analysis of Functional Rhinoplasty Procedures: Acadaveric
Study to Evaluate a Novel Assessment Technique
Timothy M. Haffey, MD; Kalpesh T. Vakharia, MD

Reconstruction of Oromandibular Defects after Prior Irradiation Using a Temporalis Muscle and Temporoparietal Fascia Flap
Joseph Zenga, MD; Jason A. Díaz, MD; Brian Nussenbaum, MD; Jason Thomas Rich, MD; Allen Sclaroff, DDS

Role of Vastus Lateralis Myofascial Free Flap in Reconstruction of Head and Neck Defects
Philip Robb Jr., MD; Jennings R. Boyette, MD

Scar Cosmesis: Assessment, Perception and Impact on Body Image and Quality of Life—Systematic Review
Priya Sethukumar, MBBS; Zaid Awad, MD; Finneas J. R. Catling, MBChB; Neil S. Tolley, MD

The Aesthetic Impact of Modified Extracorporeal Septoplasty
Badi Aldosari, MD; Francois Disant, MD, PhD; Patrick Marin, MD

Trauma Induced Parkinson's Syndrome
Brian Ho, MD; Jack C. Yu, MD; Franklin Davis; John Morgan, MD

General Otolaryngology

A Randomized Controlled Trial Protocol for Gelovoice Throat Lozenges as Adjunctive Analgesic in Post-Tonsillectomy Pain
Zi Wei Liu; Sheneen Meghji; Samuel Jayaraj, MD

Assessment of Tracheostomy and Laryngectomy Knowledge Among Non-Otolaryngology Physicians
Aaron D. Robinson, MD; Lane D. Squires, MD; Maggie Kuhn, MD; Hilary Brodie, MD, PhD

Clinical Utility of the Glasgow Prognostic Score in Patients with Advanced Head and Neck Cancer
Masahiro Nakayama, MD; Keiji Tabuchi, MD, PhD; Akira Hara, MD, PhD

Combined Sialendoscopic and Transoral Approach for Large Submandibular Intraparenchymal Stones
Camilla Gallipoli, MD; Giulio Pagliuca, MD, PhD; Salvatore Martellucci, MD; Marco De Vincentis, MD; Massimo Fusconi, MD; Antonio Greco, MD; Andrea Gallo, MD, PhD

Consultant Perceptions of Electronic Online Workplace-Based-Assessment Training for Surgical Trainees of UK
Bertram Fu, MD; Tom Hampton, MRCS; Francesca Haarer, MBBS; Prodig Das, MD

Dissolution of Salivary Calculi with Chemolysis and Ultrasound
Robert Schatton, MD; Hans-Georg Kempf, MD, PhD; Helmut Schatton

Does Tube Type Matter in Post-Tympanostomy Tube Otorrhea?
Leah Cheng; Sharon Chen, Jeremiah Cheng

Effects of Oral Prednisolone on Recovery after Tonsillectomy
Young Seok Choi, MD, PhD

Ethnic Disparities in Myringoplasty Surgery in New Zealand
Hyok Jun Kwon, MBChB; Andrew Dowley; Paul Mason, MBChB

Hearing Aid Use Prevents and Reverses Loss of Speech Understanding in Adults with Hearing Loss
David I. Astrachan, MD; Michael Davis, PhD

Image Evaluation of Nasopharyngeal Mucosa Physical Change of Laryngopharyngeal Reflux Disease (LPRD)
Hideo Niwa, MD, PhD; Chong Huei Shan; Zhong Zhang, PhD; Satoshi Horihata, MD; Yasuhide Makiyama, MD

SP 139 Internet Usage and eHealth Literacy of Patients in an Otolaryngology-Head and Neck Surgery Clinic
Aree G. Saffarzadeh; Sunil P. Verma, MD; Jon Billimek, PhD

SP 140 Intracapsular Tonsillectomy for Keratosis Pharyngeous: Postoperative Recovery and Surgical Efficacy
Philip A. Gaudreau, MD; Eric Gessler, MD

SP 141 Long-Term Outcomes of Treating Middle Ear Cholesteatoma with Intact-Canal Wall and Scute-Repairing Techniques
Lijun Du, MD

SP 142 Microbial Flora and Antibiotic Resistance in Odontogenic Oral Abscesses in Upstate New York
Ann W. Plum, MD; Anthony J. Mortelliti, MD; Ronald Walsh, RN

SP 143 Microbial Flora and Antibiotic Resistance in Peritonsillar Abscesses in Upstate New York
Ann W. Plum, MD; Anthony J. Mortelliti, MD; Ronald Walsh, RN

SP 144 Minimal Invasive Nasal Valve Repair in Treatment of Nasal Valve Obstruction
Said Mustafa Said, MD

SP 145 Myringotomy Ear Simulation Model
Liang Ker, MBBS; Chew Lip Ng; Felix Austin; Delane Foo

SP 146 National Trends and Associated Factors of Endotracheal Intubation Among Adult Inpatients with Peritonsillar Abscess
Hannan A. Qureshi; Bruce K. Tan, MD; Rakesh K. Chandra, MD; Robert C. Kern, MD; Stephanie S. Smith, MD, MSc

SP 147 Occurrence of Aerodigestive Foreign Bodies in Children Less Than 12 Years at MRRH in Uganda
Doreen Naikku; Imelda Tammisigire, MPH

SP 148 Readability Assessment of Online Tracheostomy Care Resources
Amanda Hu, MD; Keonho Albert Kong

SP 149 Relation between Different Stages of Oral Cancer and Aberrant Methylation in Taiwan: Preliminary Report
Chih-Hsien Liu, MD; Wen-Hung Wang, MD, PhD; Pa-Chun Wang, MD; Jia-Cheng Lin; Fu-Guo Robert Liu, PhD

Erik Odhagen, MD; Claes Hemlin, MD, PhD; Elisabeth Ericsson, PhD; Anne-Charlotte Hessian Saderman, MD, PhD; Elisabeth Hultcrantz, MD, PhD; Ola Sunnengren; Joacim Staffors, MD, PhD

SP 151 Robot-Assisted Sialolithotomy with Sialoendoscopy: A Novel Approach to Management of Large Submandibular Gland Stones
Christopher Razavi; Celine Pascheles; Ghassan J. Samara, MD; Mark Marzouk, MD

SP 152 Sea-Surface Simulator Device to Detect Motion Sickness Disease in Naval Personnel
Berk Gurpinar, MD

SP 153 The Acceptability of Non-Vegetarian Medications in Vegetarian Patients in Otolaryngology
Francesca Haarer, MBBS; Bertram Fu, MD; Ketan Desai, MD

SP 154 The Association of Reflux and LTH: A Systematic Review
Elizabeth Shay Valle, MD; Sreeya Yalamanchali, MD; Michael Friedman, MD
SP 155  The Effect of Jaw Exercise on Trismus in Head and Neck Cancer Patient
Caterina A. Finizia, MD, PhD; Nina Pauli, MD

SP 156  The Negative Effect of Unsupervised Exercises on Patients with Facial Paresis
Sara G. Macdowell; Moises A. Arriaga, MD, MBA

SP 157  The Role of Psychological Factors in Burning Mouth Syndrome
Yun Ji Lee, MD; Min Kyu Kwak, MD; Yong Bae Ji, MD; Chang Myeon Song, MD; Seung Hwan Lee, MD; Chul Won Park, MD; Kyung Tae, MD, PhD

SP 158  Time to Competency: Reliability of Flexible Transnasal Laryngoscopy by Resident Training Level
Christopher Brook, MD; Michael P. Platt, MD; Howard Cabral, PhD; Kimberly Russell, MD; Gregory A. Grillone, MD; Ameer Aliphas, MD; J. Pieter Noordzij, MD

SP 159  Tonsil Surgery in Sweden 2013: Indications, Surgical Methods and Complication Rates
Joacim Staffors, MD, PhD; Erik Othdehn, MD; Elisabeth Ericsson, PhD; Anne-Charlotte Hassan Saderman, MD, PhD; Elisabeth Hultcrantz, MD, PhD; Ola Sunnergren; Claes Hemlin, MD, PhD

SP 160  Trans-Oral Submandibular Gland Excision: A Review of 43 Patients
Michelle Fisher, MD; Jamie M. Segel, MD; Michael Groves, MD; Jimmy J. Brown, MD

SP 161  Trends in American and Canadian Contribution to the Otolaryngology Literature
June Rui Jun Lin, MD; Joshua Gurberg, MD; Elaheh Akabari, MD; Paul White, PhD; Desmond A. Nunez

Head and Neck Surgery

SP 162  3D Assessment of Tongue Volume after Free Flap Reconstruction: Validation of Technique
Caroline C. Jeffery, MD; Gabriela Constantinescu; Daniel Ambrose O’Connell, MD; Jeffrey R. Harris, MD; Hadi Seikaly, MD; David Cote, MD

SP 163  Four Year Experience of Day Case Hemithyroidectomy: “Patient Reported Outcomes”
Catriona M. Douglas, MBChB; Craig J. McCaffer, MBChB; Shayan Ansari, MD; Anand Kasbaker; Robin Crosbie; Swee W. Kang, MBBS, MD

SP 164  Five Year Experience of Day Case Hemithyroidectomy: “Patient Reported Outcomes”
Craig J. McCaffer, MBChB; Catriona M. Douglas, MBChB; Anand Kasbaker, MBChB; Robin Crosbie; David Blaeco; Swee W. Kang, MD

SP 165  4DCT for Localization of Non-Localizing Parathyroid Adenomas in Primary Hyperparathyroidism
Bradley A. Hobbs, MD; Ryan Fitzgerald, MD; Donald L. Bodenner, MD, PhD; Brendan C. Stack Jr., MD

SP 166  A Comparison of the Dynasplint Trismus System to Tongue Depressor Therapy in Improving Treatment-Related Trismus
Mike W. Zhang; Sunny Singh Khichi, MD; Phillip G. Cochran, MPH; Lisa Clemons, RN; William R. Carroll, MD; Kirk P. Withrow, MD; Eben L. Rosenthal, MD

SP 167  A Double-Blind, Randomized, Placebo-Controlled Clinical Trial Evaluating Fibrin Sealant in Thyroidectomy Closure
Colin Wyatt Fuller, MD; Marion B. Gillespie, MD, MSc; Shaun A. Nguyen, MD; Taylor Jones; Joshua D. Hornig, MD

SP 168  Abrasion and Blunt Force Trauma: A Preclinical Study of the
Flex Robotic System
Marshall Strome, MD

SP 169 Analysis of Predisposing Factor for Pharyngocutaneous Fistula in Laryngeal Carcinoma Patients
Hong Kong, MD, PhD; Yanli Wang, MD, MSc; Jun Zheng, MD, PhD; Xuhe Zhang, MD, MSc

SP 170 Arrested Pneumatization of the Sphenoid: A Normal Variant Easily Mistaken for a Pathologic Entity
Neelima Tumma, MD; Joshua D. Waltonen, MD; John D. Clinger, MD; Chris Lack, MD; Dan Williams, MD

SP 171 Audit of Patients Undergoing Thyroid Surgery in an Attempt to Improve the Standard of Care
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**OTO EXPO** 8:00 am - 5:00 pm  
**Miniseminar, Scientific Orals, and Honorary Guest Lecture** 8:00 am - 11:50 am  
**Instruction Courses** 12:30 pm - 5:15 pm | **Committee Meetings** 6:00 am - 8:15 am  
**Poster Presentation Break** 7:00 am - 8:00 am  
**Miniseminar, Scientific Orals, and Honorary Guest Lecture** 8:00 am - 11:50 am  
**OTO EXPO** 8:00 am - 3:00 pm | **Miniseminar, Scientific Orals, Instruction Courses and Honorary Guest Lecture** 8:00 am - 11:50 am |
| **Committee Meetings** 11:00 am - 5:45 pm | **AAO-HNS Member and First-Time Attendee Orientation** 5:30 pm - 6:30 pm | **WIO Section Luncheon and General Assembly** 12:00 pm - 2:00 pm  
**SRF General Assembly** 2:30 pm - 4:30 pm  
**BOG General Assembly** 5:00 pm - 7:00 pm  
**AAO-HNS Career Fair** 5:30 pm - 7:30 pm  
**Otolaryngology Historical Society Meeting** 6:30 pm - 8:30 pm  
**Corporate Satellite Symposia** 6:30 pm - 8:30 pm  
**CORE Research Award Ceremony** 10:30 am - 11:50 am  
**Instruction Courses** 12:30 pm - 5:15 pm  
**International Assembly** 3:00 pm - 5:00 pm  
**Alumni Receptions** 6:30 pm - 8:00 pm  
**Corporate Satellite Symposia** 6:30 pm - 8:30 pm  
**International Reception (by invitation only)** 8:00 pm - 10:00 pm  
**Corporate Satellite Symposia** 6:30 pm - 8:30 pm | **Conference Meeting Daily**  
**Download the Annual Meeting App**  
**Follow us on Twitter @AAOHNS and #otomtg14**  
**Weekly Facebook Updates** |
SHUTTLE SERVICE TO/FROM ORANGE COUNTY CONVENTION CENTER

An Official AAO-HNSF Shuttle Pass is Required for Outbound Service*

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**Special Services**

**Sunday, September 21, President’s Reception:**
Service will be provided from all official shuttle hotels to the OCCC from 6:00 pm - 7:00 pm, every 15-20 minutes. Return service will be provided back to all official shuttle hotels from 7:00 pm - 8:00 pm, every 20-30 minutes.

**Monday, September 22, OHS Dinner:**
Return service will be provided from the Hyatt Regency Orlando to official shuttle hotels from 7:30 pm - 9:00 pm, every 20-30 minutes.

**Tuesday, September 23, Alumni & International Reception:**
Service will be provided from all official shuttle hotels to the Hyatt Regency Orlando from 6:00 pm - 8:30 pm, every 15-20 minutes. Return service will be provided back to all official shuttle hotels from 8:30 pm - 10:15 pm, every 20-30 minutes.

**Hotel Shuttle Information or ADA Transportation:**
Please call 1-877-288-2605. Accessible equipment if available during scheduled shuttle hours. Please request ADA service at least 30 minutes in advance of desired pick up time.

**ROUTE 1**
- Hilton Orlando
  - Group Arrivals

**ROUTE 2**
- Hilton Garden Inn SeaWorld
  - Curbside on Westwood at Trolley Stop
- Renaissance Orlando at Seaworld
  - Convention Center Entrance

**ROUTE 3**
- Embassy Suites Orlando I-Drive Conv. Ctr
  - Curbside on International Drive at Trolley Stop
- Hampton Inn Orlando
  - Tour Bus Area
- Homewood Suites Orlando
  - At Hampton Inn Orlando, Tour Bus Area
- Hyatt Place Orlando Convention Center
  - At Hampton Inn Orlando, Tour Bus Area

**ROUTE 4**
- Rosen Shingle Creek
  - Transportation Lobby
- Vista Cay Resort by Millennium
  - Front of Clubhouse
- Westin Orlando Universal Boulevard
  - Front Entrance

**ROUTE 5**
- Hard Rock Hotel at Universal
  - Tour Bus Area
  - (Hotel Providing Shuttle Service)
- Lowes Portofino Bay at Universal
  - Tour Bus Area
  - (Hotel Providing Shuttle Service)

**WALKING HOTELS**
- Hyatt Regency Orlando
  - (Formerly Peabody Orlando)
- Rosen Centre Hotel
- Rosen Plaza Hotel

**Shuttle Passes**
The shuttle pass is required to be displayed for your return trip from the Orange County Convention Center to your hotel. Attendees who reserved their room through AAO-HNSF Housing, received a shuttle pass entitling them to ride the shuttle between AAO-HNSF official hotels and the Orange County Convention Center at no additional cost. Shuttle passes can be purchased for $25 per person in Orlando at registration. Valid from September 20-24 during show hours, the shuttle pass is a $30 value.

**PLEASE ALLOW 30 MINUTES TRAVEL TIME**
Alumni and International Reception will be held in the Hyatt Regency Orlando, Tuesday, September 23. Attendees who reserve their hotel room through AAO-HNSF Housing, will receive a shuttle pass entitled them to ride the shuttle between AAO-HNSF official hotels and the Orange County Convention Center at no additional cost. The shuttle pass is required to be displayed for return trips from the Orange County Convention Center to a hotel. Shuttle passes can be purchased for $25 per person if needed.
The American Academy of Otolaryngology—Head and Neck Surgery (AAO-HNS) is the world’s largest organization representing specialists who treat the ear, nose, throat and related structures of the head and neck.

Let the Academy be your Partner for Continued Success—from Residency to Retirement.

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• Professional Development Opportunities
• Savings on Annual Meeting & OTO EXPO\textsuperscript{SM} Registration
• Subscriptions to the highly-rated Bulletin magazine and the scientific journal, Otolaryngology — Head and Neck Surgery
• Research, Health Policy, and Quality Initiatives
• Opportunities to demonstrate your leadership
• Access to our online members-only networking site

Visit the AAO-HNS Member Resource Center located in the Orange County Convention Center, Central Lobby, for more information, or visit www.entnet.org/benefits
INSTRUCTION COURSE
Submission Opens: November 10, 2014
Submission Closes: December 15, 2014
Notifications Sent: March 2015

MINISEMINAR
Submission Opens: November 10, 2014
Submission Closes: December 15, 2014
Notifications Sent: March 2015

SCIENTIFIC ORAL & POSTER
Submission Opens: January 19, 2015
Submission Closes: February 16, 2015
Notifications Sent: April 2015