



PROGRAM and ABSTRACTS

of the

***One Hundred Forty - Seventh
Annual Meeting***

**AMERICAN OTOLOGICAL
SOCIETY, INC.**

May 16 - 17, 2014

***Roman Ballroom
I/III***

**Caesars Palace
Las Vegas, NV**

OFFICERS
JULY 1, 2013—JUNE 30, 2014

PRESIDENT

John W. House, M.D.
House Ear Clinic
Los Angeles, CA

PRESIDENT - ELECT

D. Bradley Welling, M.D., Ph.D.
Harvard Medical School
Massachusetts Eye and Ear Infirmary
Massachusetts General Hospital
Boston, MA

SECRETARY - TREASURER

Steven A. Telian, M.D.
University of Michigan Medical Center
Ann Arbor, MI

EDUCATION DIRECTOR

Debara L. Tucci, M.D.
Duke University Medical Center
Durham, NC

COUNCIL

The above officers and
Herman A. Jenkins, M.D.
Paul R. Lambert, M.D.
Samuel H. Selesnick, M.D.
Roberto A. Cueva, M.D.

Accreditation Statement

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the American College of Surgeons and the American Otological Society. The American College of Surgeons is accredited by the ACCME to provide continuing medical education for physicians.

AMA PRA Category 1 Credits™

The American College of Surgeons designates this live activity for a maximum of 6.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.



American College of Surgeons
Division of Education

American Otological Society, Inc.

Mission Statement

Purpose

The American Otological Society, created in 1868, is dedicated to fostering a dialog on and dissemination of, information pertaining to advances in evidence based diagnosis and management of otologic and neurotologic disorders. The focus on otologic and neurotologic disorders and scientific advances are translated to the provision of quality care that is consistent with the ACGME general competency areas and the Institute of Medicine competencies.

Target Audience

The primary target audience for the educational efforts of the American Otological Society is the current and potential members of the society. These members are physicians, otologists, residents, fellows, and researchers in the fields of otology and neurotology. Educational activities are also open to nurses, occupational and speech therapists and other healthcare professionals who are involved in the care of patients with otologic and neurotologic conditions.

Activities

The primary activity of the American Otological Society is the Annual Meeting that focuses on the advancement of the scientific and clinical evidence that supports advances in otologic and neurotologic care to patients. Additionally, non certified educational support and resources include the publication and dissemination of peer reviewed and evidence-based content through the Otology & Neurotology Journal and support for research in otology/neurotology and lateral skull base surgery and related disciplines.

Content

The content for the Annual Meeting and other related educational efforts are limited to the otologic and neurotologic evidence based science, clinical standards of care, and effects on communication.

Expected Results

The expected results are focused on enhancing knowledge translation and promoting competence for the membership and other identified target audiences. The Annual Meeting, the CME certified annual activity of the society, and the other scholarly activities such as the publication of the Journal and support for research provide a rich and robust environment for self assessment and reflection, access to resources for lifelong learning and opportunities for discussion and re-evaluation

2014 AOS Spring Meeting CME Activity Planning

The American Otological Society (AOS) is committed to improving public health care through the provision of high-quality continuing medical education (CME) to our members. The overall goal is to provide CME activities that will address the knowledge gaps and enhance the clinical competence of the participants.

Planning an educational activity that meets the needs of our members is of the utmost importance to the leadership of the AOS. At the close of each annual meeting, we ask that you complete an exit-evaluation. The evaluation is used as a tool to determine the success of the CME program in meeting program objectives, addressing professional practice gaps and educational needs. Your responses provide extensive feedback on what was learned from the Program as well as what you would like to see in the future. The responses are peer-reviewed by the Council prior to the next meeting to assist the Program Committee in developing future AOS continuing medical education programs. The educational program is designed to address the topics identified as practice gaps through individual presentations and in depth panel discussions. Based on the response, the following data regarding professional practice gaps among attendees were noted:

- Most practitioners perceive that there are no treatments for tinnitus, and have little understanding of the pathophysiology.
- Practitioners face ethical dilemmas in their practices but have not thought about how to approach these or discuss with patients.
- Current treatment is driven more by past experience than knowledge of contemporary studies and evidence-based medicine.
- Varying surgical methods for dealing with incus necrosis in revision stapes surgery, with a variety of outcomes.

AOS President, Dr. John W. House, selected Dr. David A. Moffat as the 2014 AOS Guest of Honor. Dr. Moffat will kick off the scientific program on Friday at 1:00 P.M. with his presentation entitled, "*Ethical Dilemmas in Otology*". Other highlights of the 147th AOS annual meeting include the Basic Science lecture entitled, "*The Gray Area - Tinnitus and the Brain*", presented by Dr. Josef P. Rauschecker on Saturday. Dr. Carol A. Bauer put together a top-notch panel to discuss "*Tinnitus: Models, Mechanisms and New Management Strategies*" on Friday. A second panel entitled, "*Single-Sided Deafness: Why Not a CI?*" moderated by Dr. Bruce J. Gantz accompanied by a superb panel of experts will take place on Saturday. Dr. Neal M. Jackson and Dr. Nathan H. Calloway were both selected as recipients of an *AOS Resident Research Travel Award*.

In addition, there are a vast number of oral presentations exploring the latest otological research and findings. Be sure to visit the Octavius Ballroom where you will find an outstanding display of AOS poster submissions. Posters will be available for viewing on Friday & Saturday, 9:00-4:00. Recipients of the AOS/ANS combined poster awards will be announced at the close of the AOS Scientific program on Friday, May 16th at 5:00 P.M. The Combined Poster Reception/Meet the Authors will take place Friday evening from 5:30-7:00 P.M.

To close the identified practice gaps, participants of this activity will need to learn:

- Attendees will learn about the pathophysiology of tinnitus (specifically how the brain changes in response to hearing loss and how tinnitus is generated), and how specific characteristics of tinnitus patients may make them a better candidate for one type of treatment so that treatment choices can be targeted to patient needs.
- Attendees will have the opportunity to consider ethical dilemmas in their own practice and formulate a methodology to approach these issues in a thoughtful way. They may change the way that they interact and communicate with patients in these circumstances as a result.
- A number of studies using intratympanic treatments and reports of new delivery methods will be presented. Participants need to learn the state of contemporary scientific knowledge about the evidence basis for use of these treatments to optimize patient care.
- Revision stapes surgery is required for dislocation of the stapes prosthesis. The use of tissue glue has made some reconstructions easier and more long lasting. Participants will learn when these techniques may be most useful and how to apply them to their surgical practice.

Patient outcomes will be improved by:

Practitioners will develop a more thorough understanding of and approach to patients who have targeted conditions, including tinnitus, otosclerosis, and Meniere's disease, which are very common in the population of patients we treat. They will thoughtfully consider their approach to ethical issues that arise in otologic practice.

Patient outcomes will be improved in the following ways:

1. Offering the best understanding of the tinnitus condition and recommendations for the best treatments to patients suffering from this condition.
2. Perform most appropriate treatments for Meniere's disease.
3. Perform best surgical technique for treatment of displaced stapes prosthesis.

Learning Objective(s) - At the end of this activity, participants will be able to:

- Explain current state of knowledge on pathophysiology of tinnitus
- Evaluate and implement appropriate treatments available for tinnitus
- Apply the use of bone cement for treatment of incus necrosis in revision stapes surgery

Position Statement: Any presentations, conversations, exhibits, or other meeting communications, including descriptions of the use of drugs or devices, does not imply or constitute endorsement of any company, product, application, or use by the American Otological Society.

The following statement was read, submitted, and signed by every individual connected with this educational activity. Failure to comply disqualifies the individual from planning or speaking at any AOS Continuing Medical Education program.

In compliance with ACCME Accreditation Criteria, the American College of Surgeons, as the accredited provider of this activity, must ensure that anyone in a position to control the content of the educational activity has disclosed all relevant financial relationships with any commercial interest. All reported conflicts are managed by a designated official to ensure a bias - free presentation.

In accordance with the ACCME Accreditation Criteria, the American College of Surgeons, as the accredited provider of this activity, must ensure that anyone in a position to control the content of the educational activity has disclosed all relevant financial relationships with any commercial interest. Therefore, it is mandatory that both the program planning committee and speakers complete disclosure forms. **Members of the program committee were required to disclose all financial relationships and speakers were required to disclose any financial relationship as it pertains to the content of the presentations.** The ACCME defines a 'commercial interest' as "any entity producing, marketing, re - selling, or distributing health care goods or services consumed by, or used on, patients". It does not consider providers of clinical service directly to patients to be commercial interests. The ACCME considers "relevant" financial relationships as financial transactions (in any amount) that may create a conflict of interest and occur within the 12 months preceding the time that the individual is being asked to assume a role controlling content of the educational activity.

AOS is also required, through our joint sponsorship partnership with ACS, to manage any reported conflict and eliminate the potential for bias during the activity. All program committee members and speakers were contacted and the conflicts have been managed to our satisfaction. However, if you perceive a bias during a session, please report the circumstances on the session evaluation form.

Please note we have advised the speakers that it is their responsibility to disclose at the start of their presentation if they will be describing the use of a device, product, or drug that is not FDA approved or the off - label use of an approved device, product, or drug or unapproved usage.

The requirement for disclosure is not intended to imply any impropriety of such relationships, but simply to identify such relationships through full disclosure, and to allow the audience to form its own judgments regarding the presentation.

Disclosure Information

PUBLICATION STATEMENT

The material in this abstract, (Name of Abstract), has not been submitted for publication, published, nor presented previously at another national or international meeting and is not under any consideration for presentation at another national or international meeting. The penalty for duplicate presentation/publication is prohibition of the author and co - authors from presenting at a COSM society meeting for a period of three years. Submitting Author's Signature (required)

All authors were advised that the submitted paper becomes the property of *Otology & Neurotology* and cannot be reprinted without permission of the Journal.

*****Disclosures *****

American Otological Society, Inc. Statement

All authors, presenters, panelists, guest lecturers, Council members, Program Advisory Committee members, Administrative staff and any other contributing individuals who may be in a position to control content of a CME activity were required to complete a Disclosure/Conflict of Interest/Attestation declaration prior to consideration for presentation or appointment to a CME planning Committee. All potential conflicts of interest were resolved prior to participation in the planning of this activity.

Authors were instructed to read and sign the following Attestation statement.

1. I will disclose all relevant financial relationships to the AOS, disclose this information to learners verbally (for live activities) and in print.
2. The content and/or presentation of the information with which I am involved will promote quality or improvements in healthcare and will not promote a specific proprietary business interest of a commercial interest. Content for this activity, including any presentation of therapeutic options, will be well - balanced, evidence - based and unbiased.
3. I have not and will not accept any honoraria, additional payments or reimbursements beyond that which has been agreed upon directly with the AOS.
4. If I am presenting at a live event, I am aware that a CME monitor will attend the event to ensure that my presentation is educational, and not promotional, in nature. If presentation is found to be promotional in any way, I understand I will be ineligible to participate in an *AOS/ACS* jointly sponsored CME accredited activity for a period up to two years.
5. If I am providing recommendations involving clinical medicine, they will be based on evidence that is accepted within the profession of medicine as adequate justification for their indications and contraindications in the care of patients. All scientific research referred to, reported or used in CME in support of justification of a patient care recommendation will conform to the generally accepted standards of experimental design, data collection and analysis.
6. If I am discussing specific healthcare products or services, I will use generic names to the extent possible. If I need to use trade names, I will use trade names from several companies when available, not just trade names from any single company.
7. If I am discussing any product use that is off label, I will disclose that the use or indication in question is not currently approved by the FDA for labeling or advertising.
8. If I have been trained or utilized by a commercial entity or its agent as a speaker (e.g., speaker's bureau) for any commercial interest, the promotional aspects of that presentation will not be included in any way with this activity.
9. If I am presenting research funded by a commercial company, the information presented will be based on generally accepted scientific principles and methods, and will not promote the commercial interest of the funding company.

*****FACULTY DISCLOSURES***
(in alphabetical order)**

American Otological Society Council 2013-2014

The following Council Members disclose:

Samuel H. Selesnick, MD

Medtronic ENT-Royalty

D. Bradley Welling, MD, PhD

J. Morita-Speaker

The following Council Members have nothing to disclose:

Roberto A. Cueva, MD

John W. House, MD

Herman A. Jenkins, MD

Paul R. Lambert, MD

Steven A. Telian, MD

Debara L. Tucci, MD

Program Advisory Committee 2014

The following Committee Members disclose:

John P. Carey, MD

Otonomy-Advisory panel

Pfizer-Advisory panel

Sujana S. Chandrasekhar, MD

Scientific Development & Research Inc.-Shareholder, board member

Cochlear Corp-Consultant

MED-EL-Consultant

Bruce J. Gantz, MD

Advanced Bionics-Consultant

Cochlear Corp-Consultant

Medtronic-Consultant

Bradley W. Kesser, MD

Nasco, Inc-Royalty (patent holder)

Lawrence R. Lustig, MD

Advanced Bionics-Medical advisory board

MED-EL-Surgical advisory board

Samuel H. Selesnick, MD-(see above)

The following Committee Members have nothing to disclose:

J. Douglas Green Jr., MD

John W. House, MD

John K. Niparko, MD

Debara L. Tucci, MD

AOS Administrative Staff has nothing to disclose:

Kristen Bordignon

Ashley Westbrook

*****AOS Disclosures—Oral Presentations *****
Friday, May 16, 2014
Scientific Session
Oral Presentations: Authors/Presenters
& Panel Participants
(listed in order of presentation)

1:15pm - GUEST OF HONOR

The following individual has nothing to disclose:

David A. Moffat, PhD, FRCS

1:42pm

The following individuals have nothing to disclose:

M. Jennifer Derebery, MD (Primary)

Courtney Voelker, MD, PhD

Audrey Calzada, MD

Laurel M. Fisher, PhD

1:50pm

The following individuals have nothing to disclose:

Catherine M. Kelso, BS (Primary)

Hirobumi Watanabe, PhD

Zhen Jason Qian, BS

Joseph Wazen, BS

The following individuals disclose:

Jeffrey W. Kysar, PhD

Columbia University-Patent pending related to microneedle

Anil K. Lalwani, MD

Advanced Bionics-Medical advisory board

Columbia University- Patent pending related to microneedle

1:58pm

The following individuals have nothing to disclose:

Il Joon Moon, MD, PhD (Primary)

Justin S. Golub, MD

Jay T. Rubinstein, MD, PhD

2:06pm

The following individuals have nothing to disclose:

Daniel Schuster, MD (Primary)

Louis B. Kratchman, BS

The following individual disclosed:

Robert F. Labadie, MD, PhD

Ototronix-Medical advisory board

Ototronix-Royalty

2:14pm

The following individuals have nothing to disclose:

Amit J. Sood, BA (Primary)

Paul R. Lambert, MD

Ted A. Meyer, MD, PhD

The following individual disclosed:

Shaun A. Nguyen, MD, MA

Olympus, Inc-Consultant

Global Life Technologies, Inc-Consultant and research support

Angiotech, Inc-Consultant

2:22pm

The following individuals have nothing to disclose:

Bryan A. Lanzman, MD (Primary)

Benjamin J. Rubinstein, MD

Daniel S. Chow, MD

Angela Lignelli, MD

William Millar, MD

The following individual disclosed:

Anil K. Lalwani, MD

Advanced Bionics-Medical advisory board

*****Disclosures—Oral Presentations***
Friday, May 16, 2014
Scientific Session**

2:30pm - Resident Research Travel Award

The following individuals have nothing to disclose:

Neal M. Jackson, MD (Primary)
Laveil M. Allen, MD
Anagha Kakade, MSC, DBM, PDCR
Anita Jeyakumar, MD, MS
Christopher Arcement, MD
Yu-Lan Mary Ying, MD

The following individual disclosed:

Moises A. Arriaga, MD, MBA
Elsevier-Royalties

3:14pm

The following individuals have nothing to disclose:

Stéphane Tringali, MD, PhD (Primary)
Kanthaiah Koka, PhD
Herman A. Jenkins, MD
Daniel J. Tollin, PhD

3:23pm

The following individuals have nothing to disclose:

Daniel J. Roche, MD, JD (Primary)
Debara L. Tucci, MD
Jeffrey Marcus, MD
Jay McClennen, AOCA, CCA, CFm
David M. Kaylie, MD

3:31pm

The following individuals have nothing to disclose:

J. Eric Lupo, MD (Primary)
John W. House, MD
John C. Goddard, MD

3:39pm

The following individuals have nothing to disclose:

Scott K. Hudson, MD (Primary)
Richard K. Gurgel, MD
The following individual disclosed:
Clough Shelton, MD
Cochlear Corp-Research funding

3:47pm

The following individuals have nothing to disclose:

Daniel Q. Sun, MD (Primary)
Linda Zhou
Frank R. Lin, MD
Howard W. Francis, MD, MBA
John P. Carey, MD
Wade W. Chien, MD

3:55pm

The following individuals have nothing to disclose:

Louisa Ha, AuD (Primary)
Samuel Trosman, MD
Neel Patel, MD
Gabrielle Cager, AuD
Miriam I. Redleaf, MD

*****Disclosures—Oral Presentations***
Friday, May 16, 2014
Scientific Session**

4:08pm - PANEL

The following individuals have nothing to disclose:

Carol A. Bauer, MD - Moderator

Gregory P. Lekovic, MD, PhD

The following individuals disclose:

Michael D. Seidman, MD

NIH-Research funding

Body Language Vitamin Co-founder

Visalus Sciences-Royalties

Intellectual Property-Patents

Richard S. Tyler, PhD

Cochlear-Grant

Micro Transponder-Consultant

Sound Cure-Consultant

Fan-Gang Zeng, PhD

Sound Cure-Founder, stocks

Neurotron-Founder

*****Disclosures - Oral Presentations ***
Saturday, May 17, 2014
Scientific Session
Oral Presentations: Authors/Presenters
& Panel Participants
(listed in order of presentation)**

1:05pm

The following individuals have nothing to disclose:

Aaron K. Remenschneider, MD, MPH (Primary)

Sarah A. Lookabaugh, MD

Jacob R. Brodsky, MD

Avner Aliphass, MD

Selena E. Heman-Ackah, MD

Daniel J. Lee, MD

Alicia M. Quesnel, MD

1:13pm

The following individuals have nothing to disclose:

Susan D. Emmett, MD (Primary)

Howard W. Francis, MD, MBA

1:21pm

The following individuals have nothing to disclose:

Matthew L. Bush, MD (Primary)

Bryan Hardin, BS

Christopher Rayle, BA

1:29pm

The following individuals have nothing to disclose:

Andrew J. Layman, BS (Primary)

Carol Li, BS

Luigi Ferrucci, MD, PhD

Danielle Kauffman, BS

John P. Carey, MD

Yuri Agrawal, MD

1:37pm

The following individuals have nothing to disclose:

Garrett G.A. Casale, BS (Primary)

Brian D. Nicholas, MD

Bradley W. Kesser, MD

*****Disclosures—Oral Presentations***
Saturday May 17, 2014
Scientific Session**

1:45pm

The following individuals have nothing to disclose:

Matthew G. Crowson, MD (Primary)

Katherine Callahan

James E. Saunders, MD

1:53pm

The following individuals have nothing to disclose:

Jeffrey D. Sharon, MD (Primary)

Shariq S. Khwaja, MD, PhD

Andrew Drescher, MD

The following individuals disclose:

Hiram Gay, MD

Augmenix, Inc-Consultant

ROCS-Medical Reviewer

Richard A. Chole, MD, PhD

Checksite Medical Inc-Patent

2:01pm

The following individuals have nothing to disclose:

Robert J. Yawn, MD (Primary)

Matthew L. Carlson, MD

Alejandro Rivas, MD

The following individual disclosed:

David S. Haynes, MD

Advanced Bionics-Advisory board

Cochlear Corporation-Advisory board

MED-EL-Advisory board

Grace Medical-Consultant

Stryker-Consultant

Synthes/Anspach-Consultant

2:16pm - BASIC SCIENCE LECTURE

The following individual has nothing to disclose:

Josef P. Rauschecker, PhD, DSc

3:15pm

The following individuals have nothing to disclose:

Kathryn M. Van Abel, MD (Primary)

Douglas P. Sladen, PhD

Brian A. Neff, MD

Charles W. Beatty, MD

The following individual disclosed:

Colin L.W. Driscoll, MD

Cochlear Corp-Consultant

MED-EL-Consultant

Advanced Bionics-Consultant

*****Disclosures—Oral Presentations***
Saturday May 17, 2014
Scientific Session**

3:23pm - Resident Research Travel Award

The following individuals have nothing to disclose:

Nathan H. Calloway, MD (Primary)

Adam P. Campbell, MD

The following individuals disclose:

Claire Iseli, MBBS, FRACS

Cochlear Corporation-Contractual research support

Craig A. Buchman, MD

Advanced Bionics-Consultant, Contractual research support

Cochlear Corporation-Contractual research support

MED-EL-Consultant, Contractual research support

Cochlear Americas-Consultant

Douglas C. Fitzpatrick, PhD

Advanced Bionics-Contractual research support

Cochlear Corporation-Contractual research support

MED-EL-Contractual research support

NIH-NIDCD-Research grant

Oliver F. Adunka, MD

Advanced Bionics-Consultant, Contractual research support

Cochlear Corporation-Contractual research support

MED-EL-Consultant, Contractual research support

3:31pm

The following individuals disclose:

Nathaniel T. Greene, PhD (Primary)

Cochlear Boulder LLC-Consultant

James R. Easter

Cochlear Boulder LLC-Employee

The following individuals have nothing to disclose:

Travis J. Pfannenstiel, MD

Herman A. Jenkins, MD

Daniel J. Tollin, PhD

3:39pm

The following individuals have nothing to disclose:

Scott H. Troob, MD (Primary)

Alison Singleton, AuD

Abbas A. Anwar, MD

Anthony M. Tolisano, MD

Yixin Fang, PhD

The following individuals disclose:

J. Thomas Roland Jr., MD

Cochlear Americas-Advisory board, Consultant

Advanced Bionics-Advisory board, Consultant

Susan B. Waltzman, PhD

Cochlear Americas-Consultant

3:47pm

The following individuals have nothing to disclose:

Michael V. Certo, BFA, MM (Primary)

Gavriel D. Kohlberg, MD

Dean M. Mansuco, AuD

Divya A. Chari, BS

The following individual disclosed:

Anil K. Lalwani, MD

Advanced Bionics-Medical advisory board

*****Disclosures—Oral Presentations*****

Saturday May 17, 2014

Scientific Session

4:02pm - PANEL

The following individuals disclose:

Bruce J. Gantz, MD - Moderator

Cochlear Corporation-Consultant

Advanced Bionics-Consultant

René H. Gifford, PhD

Advanced Bionics-Audiology advisory board

MED-EL-Audiology advisory board

Cochlear Americas-Audiology advisory board

Lawrence R. Lustig, MD

Advanced Bionics-Medical advisory board

MED-EL-Medical advisory board

Jay T. Rubinstein, MD, PhD

Cochlear Ltd-Consultant, P.I.

Advanced Bionics-Mentor

J. Thomas Roland Jr., MD

Advanced Bionics-Speaker

Cochlear America-Speaker

Colin L. W. Driscoll, MD

Cochlear Corp-Consultant

MED-EL-Consultant

Advanced Bionics-Consultant

David S. Haynes, MD

Advanced Bionics-Advisory board

Cochlear Corporation-Advisory board

MED-EL-Advisory board

Grace Medical-Consultant

Stryker-Consultant

Synthes/Anspach-Consultant

The following individual has nothing to disclose:

Marlan R. Hansen, MD

*****AOS Disclosures—Poster Presentations *****
(in numerical order E001-E030)

Effect of CHD7 Mutation on Inner Ear Structure

The following individuals have nothing to disclose:

Ilene Chiu, MD (Primary)

Seema R. Lalani, MD

Christine M. Eng, MD

John W. Belmont, MD, PhD

Jeffrey T. Vrabec, MD

Safety of Temperatures Generated by Endoscopes in Transcanal Endoscopic Ear Surgery

The following individuals have nothing to disclose:

Tsukasa Ito, MD, PhD (Primary)

Toshinori Kubota, MD, PhD

Akira Takagi

Tomoo Watanabe, MD, PhD

Kazunori Futai, MD, PhD

Takatoshi Furukawa, MD, PhD

Seiji Kakehata, MD, PhD

Vestibular Schwannoma Cells are viable 3-Years after Stereotactic Radiation Therapy: A Case Report with Implications for Pre-procedure Counseling

The following individuals have nothing to disclose:

Terry N. Platto, BA (Primary)

Suzu Igarashi, BS

Maki Niihori, PhD

Allison M. Dunn, BA

Audriana Hurbon, BS

Abraham Jacob, MD

Tympanic Membrane Manipulation to Treat Symptoms of Patulous Eustachian Tube

The following individuals have nothing to disclose:

Matthew D. Brace, MSc, MD (Primary)

Peter Horwich, BSc

David Kirkpatrick, MD, FRCS

Manohar Bance, MB, ChB, MSc

Endolymphatic Hydrops Reversal on 3D FLAIR 3T MRI after Diuretic Treatment

The following individuals have nothing to disclose:

Nopawan Vorasubin, MD (Primary)

Kevin A. Peng, MD

Ali R. Sepahdari, MD

Sameer Ahmed, MD

Akira Ishiyama, MD

A Novel Bone Conduction Hearing System - Long-term Safety and Efficacy Trial

The following individuals have nothing to disclose:

Richard K. Gurgel, MD (Primary)

Clough Shelton, MD

Development of an Algorithm for the Automatic Otitis Media Image Diagnosis

The following individuals have nothing to disclose:

Pa-Chun Wang, MD, MSc, MBA (Primary)

Te-Yung Fang, MD

Men-Tzung Lo, PhD

The following individuals disclose:

Chuen-Kai Shie, MS

HTC Corporation-Computation technology support

Ming-tien Lin, MS

HTC Corporation-Computation technology support

Hao Ting Chang, MS

HTC Corporation-Computation technology support

Third Window Lesions and Endolymphatic Hydrops

The following individuals have nothing to disclose:

Kevin A. Peng, MD (Primary)

Nopawan Vorasubin, MD

Ali R. Sepahdari, MD

Akira Ishiyama, MD

Measuring Sentence Recognition Outcomes among Cochlear Implant Recipients: Variability by Age

The following individuals have nothing to disclose:

Ahmad F. Mahmoud (Primary)

Michael J. Ruckenstein, MD

The One-cut Meatoplasty: Novel Surgical Technique and Outcomes

The following individuals have nothing to disclose:

Kristen L. Hovis, BA (Primary)

Matthew L. Carlson, MD

George B. Wanna, MD

Alex D. Sweeney, MD

The following individual disclosed:

David S. Haynes, MD

Advanced Bionics-Advisory board

Cochlear Corporation-Advisory board

MED-EL-Advisory board

Grace Medical-Consultant

Stryker-Consultant

Synthes/Anspach-Consultant

Treatment of Ear and Bone Disease in the Phex Mouse Mutant with Dietary Supplements

The following individuals have nothing to disclose:

Cameron C. Wick, MD (Primary)

Sharon J. Lin, BS

Heping Yu, BS

Qing Y. Zheng, MD

Cliff A. Megerian, MD

Apogeotropic Positional Nystagmus in Horizontal Semicircular Canal Vertigo: Case Series and Review

The following individuals have nothing to disclose:

Kimanh Nguyen, MD (Primary)

Sameer Ahmed, MD

Akira Ishiyama, MD

Robert W. Baloh, MD

Gail Ishiyama, MD

Totally Transcanal Endoscopic Retrograde Mastoidectomy on Demand using Electrically Powered Instruments

The following individuals have nothing to disclose:

Seiji Kakehata, MD, PhD (Primary)

Tomoo Watanabe, MD, PhD

Tsukasa Ito, MD, PhD

Takatoshi Furukawa, MD, PhD

Toshinori Kubota, MD, PhD

Kazunori, Futai, MD, PhD

Quality Improvement in Delivery of Care for Vestibular Disorders

The following individual discloses:

David R. Friedland MD, PhD (Primary)

MED-EL-Surgeons Advisory Board

The following individuals have nothing to disclose:

Christy Erbe, BS

Sergey Tarima, PhD

Alexia Miles, MPT

Michael Stadler, MD

Outcomes of Cochlear Implantation in Patients 80 years and Older

The following individuals have nothing to disclose:

Eleanor P. Kiell, MD (Primary)

Carolyn E. Witman, BA

Meagan P. Lewis, AuD

John S. May, MD

Eric R. Oliver, MD

Temporomandibular Joint Osteomyelitis Associated with Otitis Externa

The following individuals have nothing to disclose:

Candace E. Hobson, MD (Primary)

Andrew A. McCall, MD

Barry E. Hirsch, MD

Yael Raz, MD

Canal Wall Reconstruction Tympanomastoidectomy with Mastoid Obliteration for the Treatment of Cholesteatoma in Children

The following individuals have nothing to disclose:

P. Cody Buchanan, DO (Primary)

Justin S. Golub, MD

Ravi N. Samy, MD

*****Disclosures—Poster Presentations*****

Curved Adjustable Fiberoptic Laser for Endoscopic Cholesteatoma Surgery

The following individuals have nothing to disclose:

Amy Y. Yau, MD (Primary)
Hossein Mahboubi, MD, MPH
Hamid R. Djalilian, MD

New Possibilities in Middle Ear Implants with Direct Acoustic Cochlea Stimulation

The following individuals have nothing to disclose:

Henryk Skarzynski, Prof, MD, PhD (Primary)
Lukasz Olszewski, MSc
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Piotr Henryk Skarzynski, MD, PhD, MA

Anterior-posterior Diameter of the Incus in Stapes Surgery

The following individual has nothing to disclose:

Norman Wendell Todd Jr., MD (Primary)

Eustachian Tube Point: A Novel Clinical Gesture in Otolaryngology

The following individuals have nothing to disclose:

Elliot D. Lieberman, MD (Primary)
Miriam I. Redleaf, MD

Paraneoplastic Syndrome: A Masquerade of Autoimmune Inner Ear Disease

The following individuals have nothing to disclose:

Jacqueline J. Greene, MD (Primary)
Michael W. Keefe, MD
Akihiro J. Matsuoka, MD, PhD

The following individual discloses:

Jeffrey P. Harris, MD, PhD
Otonomy Inc-Equity and consultant

Systematic Review of Cochlear Implantation's Impact on Cognition in the Elderly

The following individuals have nothing to disclose:

Gina S. Miller, BS (Primary)
Craig Miller, BS
Carol L. Howe, MD, MLS
Mindy Fain, MD
Abraham Jacob, MD

Short-Term Clinical Performance of the Direct-Drive Hearing Device: A Pilot Study

The following individuals have nothing to disclose:

Hossein Mahboubi, MD, MPH (Primary)
Yaser Ghavami, MD
Amy Y. Yau, MD

The following individuals disclose:

Peyton Paulick, MS
Intellectual property-Patent pending
Mark Bachman, PhD
Intellectual property-Patent pending
Hamid R. Djalilian, MD
Intellectual property-Patent pending

Cochlear Implantation Requiring a Retrofacial Approach to the Round Window

The following individual has nothing to disclose:

Kyle P. Allen, MD, MPH (Primary)

The following individuals disclosed:

Loren J. Bartels, MD

Advanced Bionics-Advisory board, Grant/research support
MED-EL-Grant/research support

Brandon Isaacson, MD

Medtronic Midas Rex Institute-Consultant
Advanced Bionics-Medical advisory board
Stryker-Course instructor

Two Types of Endoscopic Approach for Congenital Middle Ear Cholesteatoma

The following individuals have nothing to disclose:

Toshinori Kubota, MD, PhD (Primary)

Tomoo Watanabe, MD, PhD

Tsukasa Ito, MD, PhD

Takatoshi Furukawa, MD, PhD

Kazunori Futai, MD, PhD

Seiji Kakehata, MD, PhD

Radiologic Quandary: Giant Cell Tumor of the Temporal Bone Masquerading as Osteomyelitis with Abscess

The following individuals have nothing to disclose:

Rachel B. Cain, MD (Primary)

David M. Barrs, MD

Peter A. Weisskopf, MD

Biofilm as a Cause of Cochlear Implant Extrusion

The following individuals disclose:

Christopher J. Linstrom, MD (Primary)

Grace Medical, Inc-Product royalties

George Alexiades, MD

MED-EL-Consultant

The following individuals have nothing to disclose:

Prayag Patel

Ana H. Kim, MD

Facial Nerve Paresis as Presentation of Recurrent Non-Hodgkins Lymphoma

The following individuals have nothing to disclose:

Mark A. Fritz, MD (Primary)

Paul E. Hammerschlag, MD

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Useful Cases of Multiple Cholesteatoma by non-EPI DW-MRI and MRC Images

The following individuals have nothing to disclose:

Takatoshi Furukawa, MD, PhD (Primary)

Tomoo Watanabe, MD, PhD

Tsukasa Ito, MD, PhD

Yasuhiro Abe, MD, PhD

Toshinori Kubota, MD, PhD

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Seiji Kakehata, MD, PhD

**THE AMERICAN OTOLOGICAL SOCIETY WOULD
LIKE TO THANK THE FOLLOWING MEMBERS
FOR THEIR CONTRIBUTION TO THE
2014 AOS SCIENTIFIC PROGRAM**

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Mark your calendar!

**Combined Poster Reception
AOS/ANS/ASPO/ARS**

Friday, May 16, 2014

5:30 pm - 7:00 pm

Octavius Ballroom

AOS President's Reception & Banquet

Saturday, May 17, 2014

Reception - 6:30 pm

Pompeian Ballroom III/IV

Dinner/Dance - 7:30 pm

Pompeian Ballroom I/II

Formal attire/Black tie optional
{Advanced ticket purchase required
Members & Invited Guests only}

Upcoming meetings

**AOS 148th Annual Meeting
(in conjunction with COSM)**
April 24–26, 2015
Sheraton Boston
Boston, MA

2014 AAO-HNS Annual Meeting & OTO Expo
September 21-24, 2014
Orange County Convention Center
Orlando, FL

The Abstract deadline for the AOS 148th Annual meeting is Wednesday, October 15, 2014.

Abstract Instructions and submission form will be available on website after July 7, 2014.
Website - www.americanotologicalsociety.org

All primary and contributing authors are required to complete a disclosure/conflict of interest statement at time of abstract submission in order for the abstract to be considered by the Program Advisory Committee.

Journal Requirements/Instructions to Primary Authors
Manuscripts are required of ALL ORAL presentations. Manuscripts must be submitted online a **minimum of four weeks** prior to the annual meeting, via the journal's website. Instructions for registering, submitting a manuscript, and the author guidelines can be found on the Editorial Manager site:
<https://www.editorialmanager.com/on/>

The journal of *OTOLOGY & NEUROTOLOGY* does not accept paper manuscripts. Manuscripts will be peer reviewed prior to the Annual meeting for conflict of interest review and resolution.

Failure to comply with the guidelines & requirements of the American Otological Society and the O&N Journal will result in the disqualification of your presentation.

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