



**PROGRAM and ABSTRACTS**

**of the**

***One Hundred Forty-Fifth  
Annual Meeting***

**AMERICAN OTOLOGICAL  
SOCIETY, INC.**

**April 21-22, 2012**

**Elizabeth Ballroom  
DE**

**Manchester Grand Hyatt  
San Diego, CA**

**OFFICERS**  
**JULY 1, 2011—JUNE 30, 2012**

**PRESIDENT**

Herman A. Jenkins, M.D.  
University of Colorado  
Aurora, CO

**PRESIDENT-ELECT-SECRETARY-TREASURER**

Paul R. Lambert, M.D.  
Medical University of South Carolina  
Charleston, SC

**SECRETARY-TREASURER-ELECT**

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

**EDITOR-LIBRARIAN**

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

**COUNCIL**

The above Officers and  
Bruce J. Gantz, M.D.  
C. Phillip Daspit, M.D.  
John W. House, M.D.  
D. Bradley Welling, M.D., Ph.D.

**Accreditation Statement:** The American Otological Society is accredited under the entity *the AOS/ANS Joint Council* as a provider for continuing medical education for physicians by the Accreditation Council for Continuing Medical Education (ACCME).

**Credit Statement:**

*The AOS/ANS Joint Council* designates this educational activity for a maximum of 8 *AMA PRA Category 1 Credit (s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

**Certificate of Attendance** will be issued at the close of the meeting upon completion of the questionnaire required by us for the certifying organizations.

## The AOS/ANS JOINT COUNCIL MISSION

**Organizational Structure:** *The AOS/ANS Joint Council* is the organizational entity that oversees the Continuing Medical Education activities of two sister societies, the American Neurotology Society and the American Otological Society. *The AOS/ANS Joint Council* reflects the complementary and collaborative missions of these two societies in their commitment to improving the science, knowledge and care of patients with otologic, neurotologic and skull base disorders.

*The AOS/ANS Joint Council* provides strategic direction and oversight for the *Otology & Neurotology Journal* and fosters collaboration and cross-pollination of research, advances and approaches to care that reflect the ACGME/ABMS competencies. The formalization of the long-standing collaboration between the AOS and ANS reflects our commitment to the challenges identified in recent Institute of Medicine recommendations focused on a commitment to collaborative and team based care.

**Purpose:** *The AOS/ANS Joint Council* provides strategic direction and oversight for the common interests, values and priorities in otology and neurotology. This Council is designed to maximize the expertise from both sister societies, create opportunities for educational cross-pollination, enhanced dialogue and advancement in the science and standards of care for patients with otology and neurotology conditions and move this field toward collaborative and seamless team based education and care. *The AOS/ANS Joint Council* oversees the Corporation named *Otology & Neurotology, Inc.* The objective of this Corporation is to publish scientific advancements in the field of medicine with the purpose of promoting and advancing the profession through this educational endeavor. The primary vehicle for this objective is a publication entitled "*Otology & Neurotology*".

*The AOS/ANS Joint Council* is dedicated to improving public health care through the development, dialogue and dissemination of advances in evidence-based diagnosis and management of otologic, neurotologic and related skull base disorders. The focus on the scientific advances in these combined fields is translated into approaches to quality care that are consistent with ACGME/ABMS general competency areas and the Institute of Medicine recommendations.

**Target Audience:** The primary target audience that are served through *the AOS/ANS Joint Council* include members of both the American Otological Society and the American Neurotology Society as well as healthcare professionals in the fields of otology, otolaryngology neurotology and skull base research and healthcare. The members served include physicians, otologists, neurotologists, residents, fellows, researchers, nurses, occupational and speech therapists and other healthcare professionals who are involved in the care of patients with otologic and neurotologic conditions.

**Activities:** The educational activities under the auspices of *the AOS/ANS Joint Council* will continue to utilize the existing and well-respected live conference/annual meeting formats that are currently provided through the ANS and AOS. Since many of the members of these societies are members of both groups, *the AOS/ANS Joint Council* plans to explore new strategies to develop educational activities that can maximize the benefits of this collaboration and leverage the science, evidence and standards of care in both otology and neurotology to the benefit of the patients with these conditions. The *Otology & Neurotology Journal* provides an additional vehicle for further collaboration and dissemination of new information, science and standards of care.

**Content:** The content areas of otology and neurotology will continue to serve as the primary educational focus for the CME program under the auspices of *the ANS/AOS Joint Council*. The educational efforts will also highlight the ACGME/ABMS general competencies within the context of this field and relate the significance of communication, professionalism, patient safety and systems-based practice within these workplace environments.

**Expected Results:** The expected outcomes from these live educational activities are received through multiple sources including immediate post conference evaluations, AOS/ANS leadership and membership feedback, and commitment to change reporting. The other expected outcome from this CME program is continued development of new evidence-based science, dissemination of ongoing research in the clinical areas of otology and neurotology.

## 2012 AOS Spring Meeting CME Activity Planning

Each Attendee of the AOS 2011 Spring Meeting was asked to complete an evaluation at the close of the scientific program. Respondents provided extensive feedback on what they learned from the Program as well as what they would like to see addressed at an upcoming AOS CME activity. Responses were collected and summarized from 204 attendees.

Based on the response, the following data regarding professional practice gap among attendees was noted:

- Inconsistent diagnosis and treatment of vestibular disorders, specifically, tinnitus and Meniere's disease.
- Under-utilization of improved diagnostic strategies for patients with vestibular dysfunction.
- Inconsistent awareness or ability to implement strategies for improving conductive hearing loss with the long term goal of expanding opportunities for research, diagnosis, and treatment options.
- The lack of awareness/knowledge as to expected results and limitations of cochlear implants.

### IDENTIFICATION OF PROFESSIONAL PRACTICE GAPS

Professional practice gaps are the variations or differences in the practice patterns when compared to current evidence, standards of care or clinical guidelines that are designed to provide quality of care to patients. Authors were asked to describe how to translate identified professional practice gaps into educational needs; how the need is expressed in terms of knowledge, competence, performance and patient outcome; what should the learners be able to apply to their profession after they participate in the educational activity; list the desired results in terms of changes in physician knowledge, competence, performance and/or patient outcome.

The following competency areas will be addressed through this CME activity/scientific session.

1. **Patient Care** that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.
2. **Medical Knowledge** about established and evolving biomedical, clinical, and cognate (e.g. epidemiological and social-behavioral) sciences and the application of this knowledge to patient care.
3. **Practice-Based Learning and Improvement** that involves investigation and evaluation of their own patient care, appraisal and assimilation of scientific evidence, and improvements in patient care.
4. **Interpersonal and Communication Skills** that result in effective information exchange and teaming with patients, their families, and other health professionals.
5. **Professionalism** as manifested through a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.
6. **Systems-Based Practice** as manifested by actions that demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

## **Goals & Objectives**

The overall goal of this course is to provide up-to-date information that focuses on the advancement of the scientific and clinical evidence that supports advances in otologic and neurotologic care to patients. The **target audiences** are physicians, otologists, residents, fellows, and researchers in the fields of otology and neurotology, as well as nurses, occupational and speech therapists, audiologists, and other healthcare professionals with specific interests in otologic and neurotologic disorders.

## **Learning Objectives:**

- 1) A complete overview of the development of vestibular testing and our future needs by an expert that developed many of the tests.
- 2) A complete overview of the pathophysiological basis of tinnitus and various rationales for treatment by an international tinnitus expert.
- 3) A view into the future with cochlear implantation in at risk populations by a panel of implant experts.
- 4) A complete overview of the long-term outcomes of semicircular canal dehiscence surgery from a well established expert's experience.

## **Desired Results:**

- 1) The attendees will be able to utilize the significant clinical and research experience in vestibular testing presented by the Guest of Honor. This will allow a physician to determine the current indications, procedures and expected results in vestibular testing.
- 2) The attendees will be able to utilize the significant clinical and research experience in the pathophysiology of tinnitus, presented by the basic sciences lecturer. This will allow a physician to develop a rationale for appropriate treatment in patients with tinnitus.
- 3) The attendees will gain insight into future expansion of cochlear implants in at risk populations. This will allow a physician to discuss implantation with patients and family in such groups as Alzheimer's disease and autism.
- 4) The attendees will gain more extensive knowledge in the outcomes of surgery for superior semicircular canal dehiscence, improving their selection of appropriate candidates.

### **\*\*\* American Otological Society, Inc.\*\*\***

All authors, presenters, panelists, guest lecturers, AOS Council members, and 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 by members of the AOS Council prior to this CME activity taking place. (See page 4 for complete AOS Disclosure Statement and Resolution of Conflict process)

**Position Statement:** Any presentations, conversations, exhibits, or other meeting communications, including description of the use of drugs or devices, does not imply nor constitute endorsement of any company, product, application or use by the American Otological Society.

All Authors/Presenters are required to comply with the following Disclosure Statement prior to submitting their paper to the American Otological Society. All authors/presenters were advised that the submitted paper becomes the property of *Otology & Neurotology* and cannot be reprinted without permission of the Journal.

### **FULL DISCLOSURE POLICY STATEMENT**

In accordance with the ACCME Essential Areas and Policies, it is the policy of the American Otological Society and *The AOS/ANS Joint Council*, as the ACCME Accredited CME provider, to ensure balance, independence, objectivity and scientific rigor in all of its educational activities. **All authors, panelists, guest lecturers, CME and Program committee members, moderators, administrative staff and any other contributing individuals who may be in a position to control content of a CME activity are responsible for disclosing any potential conflict of interest or any significant financial or other relationships with the manufacturer(s) of any commercial product(s) or provider (s) of any commercial service(s) discussed in an educational presentation.** The purpose of this form is to identify and resolve all potential conflicts of interests that arise from financial relationships with any commercial or proprietary entity that produces healthcare-related products and/or services relevant to the content you are planning, developing, or presenting for this activity. This includes any financial relationships within the last twelve months, as well as known financial relationships of your spouse or partner.

To further ensure there is no relevant conflict of interest, members of the AOS Council, the Program Advisory Committee, *The AOS/ANS Joint Council* and/or Program moderators will review manuscripts three weeks prior to the CME activity to identify, address, and resolve any potential conflict of interest. In the event a relevant conflict of interest is noted, one or more of the following actions will be initiated. The presenter will be contacted and asked for clarification or additional information; the presenter will refrain from making recommendations regarding products or services and limit presentation to current evidence/science/research; or an alternate speaker will be chosen in which no conflict of interest is disclosed. The intent of this policy is not to discourage speakers who have relationships with commercial entities from presenting, but to identify these relationships to the listeners so that they may form their own judgments. **Failure to disclose this information on submission forms, or failure to return this disclosure form will result in exclusion from this activity and from future CME activities for up to two years.** The American Otological Society is committed to the non-promotional advancement of knowledge and science and to a free exchange of medical education in otology and neurotology.

### **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 including another COSM society. 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)

**\*\*\*FACULTY DISCLOSURES\*\*\***

**American Otological Society Council**

Herman A. Jenkins, MD – Advanced Bionics Advisory Panel—Middle Ear Devices

Paul R. Lambert, MD – Otonomy - Clinical Trial; Investigator and Consultant - Meniere's Disease

Steven A. Telian, MD – Cochlear Americas (no activity in over 2 yrs) Cochlear Implants

Debara L. Tucci, MD – No Disclosures

Bruce J. Gantz, MD – Advanced Bionics - Consultant, Cochlear Implants; Cochlear Corp - Consultant, Cochlear Implants

C. Phillip Daspit, MD – No Disclosures

John W. House, MD – No Disclosures

D. Bradley Welling, MD, PhD – No Disclosures

**Administrators:**

Shirley Gossard –No Disclosures

Kristen Bordignon –No Disclosures

**2012 Program Advisory Committee**

Paul R. Lambert, MD – Otonomy - Clinical Trial; Investigator and Consultant - Meniere's Disease

Herman A. Jenkins, MD - Advanced Bionics Corp—Middle Ear Active Devices

D. Bradley Welling, MD - No Disclosures

Cliff A. Megerian, MD - Cochlear Corp Surgeon's Advisory Board, Cochlear Implants; Grace Corp Surgeon's Advisory Board Middle Ear Implants; Quark Pharmaceuticals Consultant - Inner Ear Drugs

Charles C. Della Santina, MD - Cochlear Corp Surgical Advisory Committee, Cochlear Implants; Med El Codr Surgical Advisory Committee, Cochlear Implants; Labyrinth Dences UC Ownership Interest, Vestibular Prosthesis; Novartis; Glaxo Consultant, Pharmaceuticals

Brenda Lonsbury-Martin, PhD - No Disclosures

P. Ashley Wackym, MD - No Disclosures

Jay T. Rubinstein, MD - Advanced Bionics Corp - Consultant, Research Funding; Cochlear, Ltd. - Consultant, Research Funding

Lawrence R. Lustig, MD - Advanced Bionics Corp - Medical Advisory Board, Cochlear Implants; Med El Surgical Advisory Board, Cochlear Implants

Carol A. Bauer, MD - No Disclosures

Craig A. Buchman, MD - Advanced Bionics Advisory Board; Med El Corp. Advisory Board; Cochlear Corp. Advisory Board

**Primary Authors/Contributing Authors were informed and required to comply with the following prior to submitting their abstract:**

1. Disclose financial relationships with a commercial entity producing health-care related products and/or services.
2. Authors were informed a member of the AOS Program Advisory Committee and *The AOS/ANS Joint Council*, as the ACCME Accredited CME provider, would review the content of the presentation prior to the CME activity taking place; Primary author would provide educational content and resources in advance as requested. (if applicable)
3. If Author/Presenter has 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.

4. If discussing any product use that is off label, Author/Presenter required to disclose that the use or indication in question is not currently approved by the FDA for labeling or advertising.

5. If discussing specific healthcare products or services, will use generic names to the extent possible. If need to use trade names, will use trade names from several companies when available, not just trade names from any single company.

6. If 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.

7. If 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.

**\*\*\*Disclosures—Oral Presentations \*\*\***  
**Saturday April 21, 2012, Scientific Session**  
**Oral Presentations: Authors/Presenters**  
**& Panel Participants**  
**(listed in order of presentation)**

**1:10**

**Guest of Honor**

**The following individual has nothing to disclose**

Vicente Honrubia, MD

**1:25**

**The following individuals have nothing to disclose**

Guangwei Zhou, MD, ScD

Dennis Poe, MD

Quinton Gopen, MD

**1:34**

**The following individuals have nothing to disclose**

M. Geraldine Zuniga, MD

Roni E. Dinkes, AuD

John P. Carey, MD

Michael C. Schubert, PT, PhD

Jeremy Walston, MD

Yuri Agrawal, MD

**1:43**

**The following individuals have nothing to disclose**

Bryan K. Ward, MD

Yuri Agrawal, MD

Charles C. Della Santina, MD, PhD

Charles J. Limb, MD

Lloyd B. Minor, MD

John P. Carey, MD



**\*\*\*Disclosures—Oral Presentations\*\*\*  
Saturday April 21, 2012, Scientific Session (Cont)**

**1:52**

**The following individuals have nothing to disclose**

Audrey P. Calzada, MD

Ivan A. Lopez, PhD

David Elashoff, PhD

Gail Ishiyama, MD

Akira Ishiyama, MD

**2:01**

**The following individuals have nothing to disclose**

Clarice S. Clemmens, MD

Michael J. Ruckenstein, MD, MS

**2:15**

**Basic Science Lecture**

**The following individual has nothing to disclose**

Carol A. Bauer, MD

**3:15**

**The following individual disclose**

Richard A. Chole, MD, PhD - Ownership CheckSite Medical,  
Inc. Surgical safety systems

**The following individuals have nothing to disclose**

Joseph Zenga, MD

Patricia M. Gagnon, MS

Joseph Vogel, PhD

**3:24**

**The following individuals have nothing to disclose**

Saad A. Alsaleh, MD

Brian W. Blakley, MD, PhD

Zameel A. Dewji, MD

Kaiser A. Qureshy, MD

Sylvie T. Berard, AuD

Ling Xie, RA

**3:33**

**The following individuals have nothing to disclose**

Yukiko Iino, MD, PhD

Hiromi Kanazawa, MD

Akihiro Shinnabe, MD

Naohiro Yoshida, MD, PhD

**3:42**

**The following individual disclose**

Adrien A. Eshraghi, MD - MedEl Corp - Research Support

**The following individuals have nothing to disclose**

Guyan A. Channer, MD

Esperanza Bas, PhD

Fred F. Telischi, MEE, MD

Chhavi Gupta, PhD

John T. Dihn, BS

Ly Vu, BS

Thomas R. Van De Water, PhD

**3:51**

**The following individual disclose**

M. Jennifer Derebery, MD - Sonitus Medical Corp. Consultant  
Board of Directors; Science Advisory Board -  
Stockholder

**The following individuals have nothing to disclose**

Andrew Vermiglio, PhD

Maria Vargas, AuD

Marilee Potthoff

**4:05**

**The following individuals have nothing to disclose**

Georgios Stamatiou, MD

Konstantina M. Stankovic, MD, PhD

**4:14**

**The following individuals have nothing to disclose**

Theodore R. McRackan, MD

Fitsum A. Reda, MS

Jack H. Noble, PhD

Alejandro Rivas, MD

Benoit M. Davant, PhD

Robert F. Labadie, MD, PhD

**4:23**

**The following individuals have nothing to disclose**

C. Eduardo Corrales, MD

Richard K. Gurgel, MD

Robert K. Jackler, MD

**4:32**

**The following individuals have nothing to disclose**

Charles A. Mangham Jr., MD, MS

A. Davis Mangham

**4:41**

**The following individuals have nothing to disclose**

Maggie A. Kuhn, MD

David R. Friedmann, MD

Leon S. Winata, BS

Jan Eubig, MD

Bidyut K. Pramanik, MD

John Kveton, MD

Darius Kohan, MD

Saumil N. Merchant, MD

Anil K. Lalwani, MD

**\*\*\*Disclosures—Oral Presentations\*\*\*  
Sunday, April 22, 2012, Scientific Session**

**7:30**

**The following individuals have nothing to disclose**

Michael B. Gluth, MD

John L. Dornhoffer, MD

**7:39**

**The following individuals disclose**

Erdem Yavuz - Intelligent Hearing Systems - Employee

Rafael E. Delgado - Intelligent Hearing Systems - Director and  
Stock Owner and Co Owner & Employee

**The following individuals have nothing to disclose**

Krzysztof Morawski

Kazimierz Niemczyk

Aleksandra Hryciuk

Fred F. Telischi, MD

**7:48**

**The following individuals have nothing to disclose**

Lauren A. Kilpatrick, MD

Fu-Shing Lee, PhD

Paul R. Lambert, MD

**7:57**

**The following individuals have nothing to disclose**

Michael B. Gluth, MD

John L. Dornhoffer, MD

Aaron M. Metraile, MD

**8:06**

**The following individual disclose**

Bradley W. Kesser, MD - Nasco, Inc. Dr Kesser receives  
royalties for a simulator he patented. This is unrelated  
to the content of this abstract/presentation.

**The following individuals have nothing to disclose**

Brian D. Nicholas, MD

Kaelyn Krook, BS

Lincoln Gray, PhD

**8:15**

**The following individual disclose**

Michael Hoa, MD- One-time consultant to Cochlear  
Corporation

**The following individuals have nothing to disclose**

John W. House, MD

Fred H. Linthicum, Jr., MD

**\*\*\*Disclosures—Oral Presentations\*\*\*  
Sunday, April 22, 2012, Scientific Session (Cont)**

**8:29**

**The following individuals have nothing to disclose**

Ashkan Monfared, MD  
Gerald Mitterramskogler, MS  
Simon Gruber, Ms  
Kenneth Salisbury, PhD  
Juergen Stampfl, PhD  
Nikolas H. Blevins, MD

**8:38**

**The following individuals have nothing to disclose**

Hossein Mahboubi, MD MPH  
Peyton Paulick, MS  
Saman Kiumehr, MD  
Mark Merlo, PhD  
Mark Bachman, PhD  
Hamid R. Djalilian, MD

**8:47**

**The following individuals disclose**

J. Thomas Roland, Jr., MD - Member of surgical advisory  
board for Cochlear Corp. and Advanced Bionics

**The following individuals have nothing to disclose**

Maura K. Cosetti, MD  
David R. Friedmann, MD  
Selena E. Heman-Ackah, MD, MBA  
David Drimmer, BS  
Susan B. Waltzman, PhD

**8:56**

**The following individuals have nothing to disclose**

David A. Gudis, MD  
Douglas C. Bigelow, MD  
Michael J. Ruckenstein, MD

**9:05**

**The following individual disclose**

Clough Shelton, MD - Cochlear Corp- Research Grant for  
percutaneous implants to study speech processing  
strategies

**The following individual has nothing to disclose**

Frank M. Warren, MD

**\*\*\*Disclosures—Oral Presentations\*\*\*  
Sunday, April 22, 2012, Scientific Session (Cont)**

**9:14**

**The following individuals disclose**

Peter S. Roland, MD - Alcon Labs (speaker, consultant, honorarium), MedEl Corporation (advisory board, consultant, honorarium), Advanced Bionics (advisory board, consultant, honorarium), Cochlear Corporation (advisory board, consultant, honorarium), and GlaxoSmithKline (speaker, honorarium)

Brandon Isaacson, MD - Corresponding Author Medtronic Midas Rex Institute (consultant, course instructor)

**The following individuals have nothing to disclose**

Evan Walgama, MD

J. Walter Kutz, Jr., MD

**9:58**

**The following individuals disclose**

Oliver F. Adunka, MD - Receive research support from:  
Advanced Bionics Corp, Med-EL Corp Cochlear Inc.

Douglas C. Fitzpatrick, PhD - Receive research support from:  
Advanced Bionics Corp, Med-EL Corp Cochlear Inc.

**The following individuals have nothing to disclose**

John M. Pike, BS

Baishakhi Choudhury, MD

Omar Awan, BS

Kristine Faulk, BS

**10:07**

**The following individuals have nothing to disclose**

David Bakhos, MD

S. Roux

E. Lescanne, MD, PhD

F. Bonnet-Brilhaut, MD, PhD

N. Bruneau, PhD

**10:16**

**The following individuals have nothing to disclose**

Stanley Pelosi, MD

Alejandro Rivas, MD

David Haynes, MD

Marc L. Bennett, MD

Robert F. Labadie, MD, PhD

Linda Hood, PhD

Andrea Hedley-Williams, AuD

George B. Wanna, MD

**10:25**

**The following individuals have nothing to disclose**

Ricardo F. Bento, MD, PhD

Maria Valeria S.G. Gomez, PhD

Rubens V.B. Neto, MD, PhD

Robinson Koji Tsuji, MD, PhD

Anna Carolina O. Fonseca, MD

Liliane S. Ikari, MD

**\*\*\*Disclosures—Oral Presentations\*\*\***  
**Sunday, April 22, 2012, Scientific Session (Cont)**

**10:34**

**The following individuals have nothing to disclose**

Jack H. Noble, PhD  
Benoit M. Dawant, PhD  
Rene H. Gifford, PhD,  
Robert F. Labadie, MD, PhD

**10:43**

**The following individuals disclose:** Hold intellectual property rights to the device being studied.

Leo Ling, PhD  
Steven M. Bierer, PhD  
Kaibao Nie, PhD  
James O. Phillips, PhD  
Jay T. Rubinstein, MD, PhD - A paid consultant and has received research funding from Cochlear, Ltd, the manufacturer of the device and holds intellectual property rights to the device being studied.

**The following individual have nothing to disclose**

Justin S. Golub, MD

**11:00**

**The following individuals disclose**

J. Thomas Roland, Jr., MD - Member of the surgical advisory board for Cochlear Corporation and Advanced Bionics  
Mario Svirsky, PhD - Cochlear Americas, Research Support; Advanced Bionics, Research Support  
Nancy Young, MD - Cochlear Americas, Medical Advisory Board; Advanced Bionics, Medical Advisory Board

**The following individuals have nothing to disclose**

Daniel M. Zeitler, MD  
Larry Humes, PhD

The Accreditation Council for Continuing Medical Education (ACCME) requires that all presenters, contributing authors, guest speakers, Program committee members, & Council members involved in planning and implementing CME activities disclose all financial relationships with commercial interests. All authors have complied with the above. Any potential conflicts of interest were resolved to the satisfaction of the AOS Council, the AOS Program Advisory Committee, the AOS/ANS Joint Council and a select group of non-conflicted peers prior to this CME activity taking place.

## **2012 Program Advisory Committee**

Carol A. Bauer, MD  
Craig A. Buchman, MD  
Charles Della Santina, MD, PhD  
Paul R. Lambert, MD  
Brenda Lonsbury-Martin, PhD  
Lawrence R. Lustig, MD  
Cliff A. Megerian, MD  
Jay T. Rubinstein, MD  
P. Ashley Wackym, MD  
D. Bradley Welling, MD, PhD

**146th AOS Annual Spring Meeting**  
**April 13-14, 2013**  
**J. W. Marriott Grande Lakes**  
**Orlando, FL**

**Abstract Deadline: October 15, 2012**

**Abstract Instructions and submission form will be available on website after July 1, 2012**

**Website—[www.americanotologicalsociety.org](http://www.americanotologicalsociety.org)**

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

### **Journal Requirements/Instructions to Authors/Presenters**

The journal of *OTOLOGY & NEUROTOLOGY* no longer accepts paper manuscripts. All manuscripts must be submitted online **three weeks** prior to the annual meeting, via the journal's website: <https://www.editorialmanager.com/on/> Instructions for registering, submitting a manuscript, and the author guidelines can all be found on the Editorial Manager site: <https://www.editorialmanager.com/on/>.

One copy of the manuscript (.pdf format) is to be submitted electronically to the AOS Administrative Office a **minimum of three weeks** prior to the Annual Meeting for content and conflict of interest review and resolution.

### **Administrative Office Address**

American Otological Society, Inc.  
Shirley Gossard, Administrator  
3096 Riverdale Road  
The Villages, Florida 32162  
Ph: 352-751-0932  
Fax: 352-751-0696  
Email: [segossard@aol.com](mailto:segossard@aol.com)  
Website: [www.americanotologicalsociety.org](http://www.americanotologicalsociety.org)

### **AOS CHANGE OF ADDRESS**

American Otological Society, Inc.  
Kristen Bordignon, Administrator  
1980 Warson Road  
Springfield, IL 62704  
Ph: 217-638-0801  
Fax: 217-679-1677  
Email: [otosociety@yahoo.com](mailto:otosociety@yahoo.com)

**Important please note**  
**the following change**  
**Effective July 1, 2012**

## NAMES AND ADDRESSES OF PRIMARY AUTHORS

---

**Saad A. Alsaleh, MD**  
Otolaryngology Resident  
Dept of Otolaryngology - HNS  
Health Sciences Centre, GB421  
- 820  
Sherbrook Street  
Winnipeg, Manitoba, R3A 1R9,  
Canada

**David Bakhos, MD**  
ENT department  
CHU de Tours  
INSERM U930  
3700 Tours France

**Richardo F. Bento, MD, PhD**  
Rua Dr. Enéas de Carvalho  
Aguiar 255 sala 6167  
05403-000 Sao Paulo - SP Bra-  
zil

**Audrey P. Calzada, MD**  
1234 Sixth Street, Apt 210  
Santa Monica, CA 90401

**Guyan A. Channer, MD**  
Otolaryngology Department  
University of Miami  
Miller School of Medicine  
1120 NW 14th Street (5th Fl)  
Miami, FL 33136

**Richard A. Chole, MD, PhD**  
Campus Box 8115  
660 South Euclid Avenue  
St. Louis, MO 63131

**Clarice S. Clemmens, MD**  
Dept of Otorhinolaryngology  
3400 Spruce St.  
5 Silverstein Building  
Philadelphia, PA 19104

**C. Eduardo Corrales, MD**  
801 Welch Road  
Stanford, CA 94305

**Maura K. Cosetti, MD**  
Department of Otolaryngology  
New York University SOM  
550 First Ave, Suite 7Q  
New York, NY 10016

**Jennifer Derebery, MD**  
House Research Institute  
2100 W 3rd St  
Los Angeles, CA 90057

**Michael B. Gluth, MD**  
4301 W. Markham St., #543  
Little Rock, AR 72205

**Justin S. Golub, MD**  
Dept of Oto-HNS  
Univ of Washington  
1959 NE Pacific St  
Box 356515  
Seattle, WA 98195-6515

**David A. Gudis, MD**  
Hospital of the University of  
Pennsylvania  
3400 Spruce Street, 5  
Silverstein Building  
Philadelphia, PA 19104

**Lauren A. Kilpatrick, MD**  
135 Rutledge Ave, MSC 550  
Charleston, SC 29425

**Maggie A. Kuhn, MD**  
310 E. 44th St. Apt 1221  
New York, NY 10017

**Michael Hoa, MD**  
2100 W 3rd St  
Los Angeles, CA 90057

**Yukiko Iino, MD, PhD**  
Department of Otolaryngology  
Jichi Medical University  
Saitama Medical Center  
1-847 Amanuma-cho,  
Omiya-ku  
Saitama 330-8503, Japan

**Theodore R. McRackan, MD**  
Vanderbilt University  
Medical Center  
10265 Medical Center East,  
South Tower  
Nashville, TN 37232-8606



## NAMES AND ADDRESSES OF PRIMARY AUTHORS

---

**Hossein Mahboubi, MD, MPH**  
Dept of Otolaryngology - HNS  
University of CA, Irvine  
101 The City Drive South Bldg.  
56, Suite 500  
Orange, CA 92868

**Charles Mangham, Jr., MD**  
Seattle Ear Clinic  
801 Broadway Ste 830  
Seattle, WA 98122-4328

**Ashkan Monfared, MD**  
2021 K ST, NW, Suite 206  
Washington, DC 20006

**Krzysztof Morawski**  
Dept of Otolaryngology, WUM  
Banacha 1a Street  
02-097 Warsaw, Poland

**Brian D. Nicholas, MD**  
UVa Dept of Oto HNS  
PO Box 800713  
Charlottesville VA 22908

**Jack H. Noble, PhD**  
2301 Vanderbilt Pl.  
Box 1662B  
Nashville, TN 37235

**Stanley Pelosi, MD**  
Dept of Otolaryngology-HNS  
Vanderbilt University  
Medical Center  
7209 Medical Center  
East-South Tower  
1215 21st Avenue South  
Nashville, TN 37232

**John M. Pike, BS**  
142 Glaxo Building  
103 Mason Farm Rd  
Chapel Hill, NC, 27599

**Konstantina M. Stankovic,  
MD, PhD**  
243 Charles Street  
Boston, MA 02114

**Clough Shelton, MD**  
50 N Medical Dr  
Salt Lake City, UT 84132

**Evan Walgama, MD**  
Dept of Otolaryngology-HNS  
University of Texas  
SW Medical Center at Dallas  
5323 Harry Hines Blvd  
Dallas, TX 75390-9035

**Bryan K. Ward, MD**  
Johns Hopkins Outpatient Ctr,  
6th floor  
Dept of Otolaryngology-HNS  
601 North Caroline Street  
Baltimore, MD 21287

**Guangwei Zhou, MD, ScD**  
Dept of Otolaryngology &  
Communication Enhancement  
Children's Hospital Boston  
300 Longwood Ave. LO-367  
Boston, MA 02115

**M. Geraldine Zuniga, MD**  
Johns Hopkins University  
School of Medicine  
Otolaryngology-HNS Dept.  
601 N Caroline St 6th Floor  
Baltimore, MD 21287-0910

**Saturday, April 21, 2012**

**12:30 Business Meeting** (*Restricted to Members*)  
**Room:** *Elizabeth Ballroom DE*

Minutes of the Annual Meeting 2011

Introduction of New Members

Election of Nominating Committee

Report of the Secretary-Treasurer

Report of the Editor-Librarian

**1:00 Scientific Program**  
(*Open to Registered Members & Non-Members-  
Badge required for admission*)  
**Room:** *Elizabeth Ballroom DE*

**1:00 Remarks by the President**  
*Herman A. Jenkins, MD*

**Presidential Citations –**  
*Carol A. Bauer, MD*  
*Rinaldo F. Canalis, MD*  
*Newton J. Coker, MD*  
*Brenda Lonsbury-Martin, PhD*  
*Shirley Gossard*

**Guest of Honor**  
*Vicente Honrubia, MD*

**1:10 Vestibular Testing, after 50 Years Still a Challenge**  
*Vicente Honrubia, MD*

**Moderators:** *Herman A Jenkins, MD*  
*Paul R. Lambert, MD*

**1:25 Clinical Utility of Vestibular Evoked Myogenic  
Potentials in the Evaluation of Patients with  
Air-Bone Gaps**  
*Guangwei Zhou, MD, ScD*  
*Dennis Poe, MD*  
*Quinton Gopen, MD*

**1:34 Association between Hearing Loss and Saccular  
Dysfunction in Older Individuals**  
*M. Geraldine Zuniga, MD*  
*Roni E. Dinkes, AuD*  
*John P. Carey, MD*  
*Michael C. Schubert, PT, PhD*  
*Jeremy Walston, MD*  
*Yuri Agrawal, MD*

- 1:43 Long-term Hearing Outcomes Following Surgical Plugging of the Superior Semicircular Canal by Middle Fossa Approach**  
*Bryan K. Ward, MD*  
*Yuri Agrawal, MD*  
*Charles C. Della Santina, MD, PhD*  
*Charles J. Limb, MD*  
*Lloyd B. Minor, MD*  
*John P. Carey, MD*
- 1:52 Otolithic Membrane Damage in Patients with Endolymphatic Hydrops and Drop Attacks**  
*Audrey P. Calzada, MD*  
*Ivan A. Lopez, PhD*  
*David Elashoff, PhD*  
*Gail Ishiyama, MD*  
*Akira Ishiyama, MD*
- 2:01 Characteristics of Patients with Unilateral and Bilateral Meniere's Disease: Implications as to Etiology**  
*Clarice S. Clemmens, MD*  
*Michael J. Ruckenstein, MD, MS*
- 2:10 DISCUSSION**
- 2:15 Basic Science Lecture: Neuroscience of Tinnitus - Implications for Treatment**  
*Carol A. Bauer, MD*
- 2:40 DISCUSSION**
- 2:45 BREAK WITH EXHIBITORS**
- 3:15 Biofilm Formation by Otopathogenic Strains of *Ps. aeruginosa* is not Consistently Inhibited by EDTA**  
*Richard A. Chole, MD, PhD*  
*Joseph Zenga, MD*  
*Patricia M. Gagnon, MS*  
*Joseph Vogel, PhD*
- 3:24 Steroids in Aminoglycoside-Containing Ear Drops: Do they Reduce Cochlear Toxicity?**  
*Saad A. Alsaleh, MD*  
*Brian W. Blakley, MD, PhD*  
*Zameel A. Dewji, MD*  
*Kaiser A. Qureshy, MD*  
*Sylvie T. Berard, AuD*  
*Ling Xie, RA*

- 3:33 Anti-Ige Therapy for Eosinophilic Otitis Media**  
*Yukiko Iino, MD, PhD*  
*Hiromi Kanazawa, MD*  
*Akihiro Shinnabe, MD*  
*Naohiro Yoshida, MD, PhD*
- 3:42 Mannitol Protects Auditory Hair Cells against Tumour Necrosis Factor Alpha (TNF  $\alpha$ )-Induced Loss**  
*Guyan A. Channer, MD*  
*Esperanza Bas, PhD*  
*Fred F. Telischi, MEE, MD*  
*Chhavi Gupta, PhD*  
*John T. Dihn, BS*  
*Ly Vu, BS*  
*Adrien A. Eshraghi, MD*  
*Thomas R. Van De Water, PhD*
- 3:51 Pre and Post-concert Assessment of Hearing Loss in Teenagers**  
*M. Jennifer Derebery, MD*  
*Andrew Vermiglio, PhD*  
*Maria Vargas, AuD*  
*Marilee Potthoff*
- 4:00 DISCUSSION**
- 4:05 Molecular Pathway Analysis of Genetic Hearing Loss**  
*Georgios Stamatiou, MD*  
*Konstantina M. Stankovic, MD, PhD*
- 4:14 Intratemporal Facial Nerve Variability: Implications for Otologic Surgery**  
*Theodore R. McRackan, MD*  
*Fitsum A. Reda, MS*  
*Jack H. Noble, PhD*  
*Alejandro Rivas, MD*  
*Benoit M. Davant, PhD*  
*Robert F. Labadie, MD, PhD*
- 4:23 Rehabilitation of Central Facial Paralysis with Hypoglossal-Facial Anastomosis**  
*C. Eduardo Corrales, MD*  
*Richard K. Gurgel, MD*  
*Robert K. Jackler, MD*
- 4:32 Zinc and Ginkgo Biloba as Placebo Interventions Reduce Tinnitus in Selected Patients**  
*Charles A. Mangham Jr., MD, MS*  
*A. Davis Mangham*

**4:41 Large Jugular Bulb Abnormalities Involving the Middle Ear**

*Maggie A. Kuhn, MD*

*David R. Friedmann, MD*

*Leon S. Winata, BS*

*Jan Eubig, MD*

*Bidyut K. Pramanik, MD*

*John Kveton, MD*

*Darius Kohan, MD*

*Saumil N. Merchant, MD*

*Anil K. Lalwani, MD*

**4:50 DISCUSSION**

**5:00 ADJOURN**

**5:10 Group Photograph (AOS Members)**

*Location to be announced*

**6:30 AOS President's Reception and Banquet**

*Randle Ballroom DE*

*(Members and Invited Guests Only)*