

*PRELIMINARY PROGRAM OF THE  
AMERICAN OTOLOGICAL SOCIETY, INC.*

*May 1-2, 2010  
Paris/Bally's Las Vegas  
Las Vegas, NV*

**Saturday, May 1, 2010**

12:00 **Registration (COSM Registration)**

12:30 **Business Meeting**  
(Restricted to Members)

1:00 **Scientific Program**  
(Open to Registered Non-Members)

**Moderators:** *Bruce J. Gantz, MD*  
*Paul R. Lambert, MD*

1:00 **Remarks by the President**  
*Bruce J. Gantz, MD*

**Presidential Citation**  
*Thomas J. Balkany, MD*  
*Derald E. Brackmann, MD*  
*Noel L. Cohen, MD*  
*Sam E Kinney, MD*  
*Charles M. Luetje, MD*  
*Richard T. Miyamoto, MD*

1:10 **Introduction of Guest of Honor**  
*Edwin W. Rubel, PhD*

1:15 **Guest of Honor Presentation**  
**Toward a New Era of Hearing Habilitation**  
*Edwin W. Rubel, PhD*

1:40 **Discussion**

**Basic Science**

1:45 **Characterization of the Electrically-Evoked Compound Action Potential  
of the Vestibular Nerve**  
*Kaibao Nie, PhD*  
*Steven M. Bierer, PhD*

*Leo Ling, PhD*  
*Trey Oxford, BA*  
*James O. Phillips, PhD*  
*Jay T. Rubinstein, MD, PhD*

1:53 **Pharmacokinetic and Toxicity Profile of the Clinical Candidate OTO-104: a Sustained Release Dexamethasone Hydrogel for Inner Ear Delivery**

*Xiaobo Wang, MD*  
*Rayne Fernandez, BSc*  
*Anne Harrop, BSc*  
*Luis Dellamary, BSc*  
*Qiang Ye, PhD*  
*Elizabeth M. Keithley, PhD*  
*Jeffrey P. Harris, MD*  
*Jay Lichter, PhD*  
*Carl LeBel, PhD*  
*Fabrice Piu, PhD*

2:01 **Connexin 26-Associated Deafness: Association of a Single Common Allele with Progressive Hearing Loss**

*Dylan K. Chan, MD, PhD*  
*Iris Schrijver, MD*  
*Kay W. Chang, MD*

2:09 **Basic Science Lecture**  
**Genetic Testing for Deafness – How It Will Impact Your Management of Deaf and Hard of Hearing Persons**

*Richard J. H. Smith, MD*

2:35 **Discussion**

2:40 **Break with Exhibitors**

**Acoustic Neuroma**

3:10 **Gamma Knife Surgery of Vestibular Schwannomas: Volumetric Dosimetry Correlations to Hearing Loss Suggest Stria Vascularis Devascularization as the Mechanism of Early Hearing Loss**

*P. Ashley Wackym, MD*  
*Christina L. Runge-Samuels, PhD*  
*John J. Nash, MD*  
*Maureen Hannley, PhD*  
*David M. Poetker, MD*  
*Katherine Albano, MS*  
*Joseph Bovi, MD*  
*Michelle A. Michel, MD*  
*David R. Friedland, MD, PhD*  
*Yong-Ran Zhu, MD*

3:18 **Predictors of Vestibular Schwannoma Growth and Clinical Implications**

*Yuri Agrawal, MD*  
*Charles J. Limb, MD*  
*John K. Niparko, MD*  
*Howard W. Francis, MD*

3:26 **Hearing Preservation in Retrosigmoid Approach for Small Vestibular Schwannoma: Prognostic of Internal Auditory Canal Filling**

*Stéphane Tringali, MD*  
*Chantal Ferber-Viart, MD, PhD*  
*Carine Fuchsmann, MD*  
*Sandra Zaouche, MD*  
*Christian Dubreuil, MD*

3:34 **Management of Solitary Vestibular Schwannomas : Observation, Surgery or Irradiation?**

*Olivier Sterkers MD, PhD*  
*Michel Kalamarides, MD, PhD*  
*Alexis Bozorg Grayeli, MD, PhD*  
*Mustapha Smail, MD*  
*Daniele Bernardeschi MD, PhD*  
*Evelyne Ferrary MD, PhD*

3:42 **Predictive Factors of Hearing Preservation Following Surgical Resection of Small Vestibular Schwannoma**

*David J Phillips, BA*  
*Erik J Kobylarz, MD, PhD*  
*Edgar T De Peralta, MD*  
*Philip E Stieg, MD, PhD*  
*Samuel H Selesnick, MD*

3:50 **Long-Term Hearing Preservation Following Microsurgical Excision of Vestibular Schwannoma**

*Erika A. Woodson MD*  
*Ryan D. Dempewolf MD*  
*Samuel P. Gubbels MD*  
*Marlan R. Hansen MD*  
*Bruce J. Gantz MD*

3:58 **Discussion**

**Clinical Trials and Clinical Research**

4:03 **Evaluation of a Customized Acoustical Stimulus System in the Treatment of Chronic Tinnitus**

*Jack J Wazen MD*  
*Julie A Daugherty NP-C*

4:11 **Melatonin: Can It Stop the Ringing?**

*Agnes Oplatek MD*  
*D. Bradley Welling MD, PhD*

*Edward E. Dodson MD*  
*Claudia Dome AuD*  
*Kelly Wolfe BA*  
*Abraham A. Jacob MD*

4:19 **Complications of Bone-Anchored Hearing Aids: the Arkansas Experience**

*Christopher E. Lee MD*  
*John L. Dornhoffer MD*  
*Gresham T. Richter MD*  
*Lisa V. Christensen AuD*

4:27 **Inner Ear Anomalies in Congenital Aural Atresia**

*Jeffrey T. Vrabec MD*  
*Jerry W. Lin MD*

4:35 **Revision Aural Atresia Surgery: Indications and Outcomes**

*Eric R. Oliver, MD*  
*David C. Shonka, MD,*  
*Brian B. Hughley, MD*  
*Bradley W. Kesser, MD*

4:43 **Clinical Experience in Diagnosis and Management of Superior Semicircular Canal Dehiscence in Children**

*Gi Soo Lee, MD*  
*Guangwei Zhou, MD, ScD*  
*Dennis Poe, MD*  
*Margaret Kenna, MD*  
*Manali Amin, MD*  
*Laurie Ohlms, MD*  
*Quinton Gopen, MD*

4:51 **Discussion**

4:56 **Adjournment**

5:10 **AOS Group Photograph (Location to be announced)**

6:30 **AOS President's Reception and Dinner/Dance**  
(Members and Invited Guests Only)

**Sunday, May 2, 2010**

7:00 **Business Meeting**  
(Members Only)

7:30 **Scientific Program**  
(Open to Registered Non-Members)

**Moderators:** *Bruce J. Gantz, MD*  
*Paul R. Lambert, MD*

- 7:30 **IL-8 Production in Response to TNF-alpha by Cholesteatoma Keratinocytes in Cell Culture**  
*Christopher W. Hilton MD*  
*Frank G. Ondrey MD, PhD*  
*Beverly R. Wuertz BA*  
*Samuel C. Levine MD*
- 7:38 **Immunocytochemistry of the Spiral Ganglia Obtained from Microdissected Human Temporal Bones**  
*Ashley E Balaker, MD*  
*Mia M Miller, MD*  
*Gail Ishiyama, MD*  
*Ivan A Lopez, PhD*  
*Akira Ishiyama, MD*
- 7:46 **Characteristics of Osteoblasts Cultured from Stapes of Patients with Otosclerosis after Exposure to Alendronate**  
*Yvonne L Richardson, MD*  
*Kourosh Parham, MD PhD*  
*Jonathan J Romak, BA*  
*Marc D Eisen, MD*  
*Michael S Aronow, MD*  
*Gloria A Gronowicz, PhD*
- 7:54 **Partially Implantable Bone Conducting Hearing Aids without a Percutaneous Abutment. Technique and Preliminary Clinical Results**  
*Prof. Dr. Ralf Siegert*
- 8:02 **Applications of Cone Beam CT in the Temporal Bone**  
*Richard T. Penninger, MD*  
*John P. Carey, MD*  
*Tanya S. Tavassolie*
- 8:10 **Discussion**
- 8:15 **Robotic Mastoidectomy**  
*Andrei Danilchenko, BS*  
*Jenna L Toennies, MS*  
*Ramya Balachandran, PhD*  
*Stephan Baron, PhD*  
*Benjamin Munske, BS*  
*Robert J Webster III, PhD*  
*Robert F Labadie, MD, PhD*
- 8:23 **The Effect of Ultrasonic Bone Removal on the Guinea Pig Facial Nerve**  
*Stella Lee, MD*  
*Alexander Vortmeyer, MD, PhD*  
*Elias Michaelides, MD*

8:31 **Thermal Properties of Operative Otoendoscopes: An Ovine Model**

*David D. Pothier, MBChB MSc FRCS*

*Samuel A. Mac Keith, MBChB MRCS*

8:39 **A Self-adjusting Ossicular Prosthesis Containing Polyurethane Sponge**

*Richard L. Goode, MD*

*Hiroyuki Yamada, MD*

8:47 **Minimally Invasive BAHA Surgery**

*Peter C. Weber, MD*

8:58 **Discussion**

**Otosclerosis and Conductive Hearing Loss**

9:03 **Patterns of Failure in Heat-Activated-Crimping Prosthesis in Stapedectomy**

*Yu-Lan Mary Ying, MD*

*Todd A. Hillman, MD*

*Douglas A. Chen, MD*

9:11 **Nitinol Stapes Prosthesis Improves Low-Frequency Hearing Results in Otosclerosis Surgery**

*Charles A Mangham Jr. MD, MS*

9:19 **Reliability of CT-Scan in the Prognosis of Otosclerosis**

*Sebastien Lagleyre MD*

*Mathieu Marx MD*

*Young-Je Shin MD*

*Bernard Escudé MD*

*Olivier Deguine MD*

*Bernard Fraysse MD*

9:27 **The Incus in Ossicular Chain Reconstruction: Take it or Leave it?**

*Samuel D. Turner, MD*

*David P. Mullin, MD*

*Xianxi Ge, MD*

*Travis J Pfannenstiel, MD*

*Ronald L Jackson, PhD,*

*Jianzhong Liu, MD*

*Ben J Balough, MD*

9:35 **Active Middle Ear Implant Application in Case of Stapes Fixation: A Temporal Bone Study**

*Kanthaiah Koka, PhD*

*Arnaud Devèze, MD*

*Stéphane Tringali, MD.*

*Herman A Jenkins, MD*

*Daniel J. Tollin, PhD*

9:43 **Discussion**

9:48 **Break with Exhibitors**

**Cochlear Implant Clinical Research**

10:15 **Magnetic Resonance Imaging after Cochlear Implantation Using 1.5 Tesla Magnet**

*Benjamin T. Crane, MD, PhD*

*John K. Niparko, MD*

10:23 **Binaural Speech Recognition in Noise by Cochlear Implanted Patients**

*Bernard Fraysse, MD*

*Matthieu Marx, MD*

*Olivier Deguine, MD*

*Marie-Laurence Laborde*

*Chris James*

10:31 **Residual Hearing Preservation during Cochlear Implantation in Gerbils with Noise Induced, High-Frequency Hearing Loss**

*Thomas A. Suberman, BA*

*Adam P. Campbell, BA*

*Craig A. Buchman, MD*

*Oliver F. Adunka, MD*

*Douglas C. Fitzpatrick, PhD*

10:39 **Pediatric Cochlear Implantation in Children with Eighth Nerve Hypoplasia**

*Nancy M. Young, MD*

*Francine Kim, MD*

*Beth Tournis*

10:47 **Apparent Cochlear Nerve Aplasia: To Implant or not to Implant?**

*Frank M. Warren III, MD*

*Richard H. Wiggins III, MD*

*H Ric Harnsberger MD*

*Clough Shelton, MD*

10:55 **Discussion**

11:00 **Panel: Cochlear Implant Candidacy in 2010**

**Moderator:** *John K. Niparko, MD*

**Panelists:** *Craig Buchman, MD*

*J. Thomas Roland, Jr., MD*

*Peter S. Roland, MD*

*Jay T. Rubinstein, MD, PhD*

*Nancy M. Young, MD*

11:50 **Discussion**

12:00 **Introduction of Incoming AOS President – C. Phillip Daspit, MD**

12:00 **Adjournment**