



AERICAN
AAUDITORY
SSOCIETY

SCIENTIFIC &
TECHNOLOGY
MEETING

BULLETIN OF THE AMERICAN AUDITORY SOCIETY • FEBRUARY 2024



**Final
Program**

Scottsdale, AZ • February 15-17, 2024



Welcome to the 2024 American Auditory Society Scientific and Technical Conference!

This meeting will build upon our over 50-year tradition of promoting translational research and providing a relaxed atmosphere for collegial dialogue. We will continue our successful format of peer-reviewed podium sessions and poster presentations along with new features based on prior attendee feedback. We received a record number of submissions this year, and the conference committee worked hard to select the most innovative and high-quality podiums and student/early career travel awards. Exciting new features this year include an overall conference theme of *Artificial Intelligence in Hearing Applications*, an expanded and reorganized conference schedule across three full days, and the inaugural student poster award forum on Thursday.

The AAS is grateful for the continued support from NIDCD through a R13 conference grant, which has allowed us to bring outstanding Translational Research and Special Session speakers to the meeting while also supporting Student Travel awards. We are also grateful to generous donors, including the 4th annual Killion lecture and additional funding for student travel awards.

Speakers and Special Program

We are excited to announce a terrific line-up of speakers for our featured sessions.

The Carhart Memorial Lecture this year will be given by **Hideko (Heidi) Nakajima, MD, PhD**. During her distinguished career at Harvard Medical School and Massachusetts Eye and Ear Infirmary, Professor Nakajima has made significant contributions to various aspects of ear and hearing physiology. Her lecture

titled, *The Ear: In Search of Solutions for Engineers and Clinicians* will cover significant classic and new scientific ground and clinical implications. The Carhart Memorial Lecture will be followed by a festive Opening Reception for all attendees.

This year's Translational Lecture Series encapsulates the transdisciplinary focus that is the hallmark of the American Auditory Society. Thursday morning will kick off with a presentation on *Voice and Speech Perception in Children with Hearing Devices* by **Dr. Deniz Baskent**. On Friday, the Early Career Research Award Presentation will be given by **Dr. Teddy R. McRackan** on *Personalized Evidence-Based Adult Cochlear Implant Care*, followed by the Killion Lecture by **Dr. Josh McDermott** on *New Models of Human Hearing Via Machine Learning*. On Saturday morning, we will hear from **Dr. Amanda Lauer** on *Auditory Olivocochlear Efferent Feedback System Changes with Aging and Noise Exposure*.

A special session organised by the Industry Research Consortium (IRC) will provide new research by IRC grant recipients **Drs. Sharon Miller and Erin Schafer**, representing work at the critical juncture between science and practice. We are also looking forward to hearing presentations from 11 representatives of hearing healthcare companies, who will share new and innovative aspects of their work, and we thank all for their time and support of the AAS meeting.

To round out the overall theme of AI, Saturday afternoon's Special Session is sure to be fascinating: *Artificial Intelligence and Hearing Healthcare*. We will hear from **Dr. Dennis Barbour** on *Digital Patient Clones for Individualized Clinical Inference*, **Dr. Vinaya Manchaiah** on *Generating, Handling, and Drawing Inferences from Big Data in Hearing Healthcare*, **Dr. Christi Miller** on *Driving Hearing Devices Using Conversation and Communication Statistics*, and **Dr. Brian C.J. Moore** on the *Potentials of and Barriers to the Use of Artificial Intelligence in Hearing Aids*. This session is sure to provide timely and provocative new information to ponder!

Awards

AAS President, Dr. Francis Kuk, will host the Awards Session on Friday. We will honor the 2024 recipient of the Life Achievement Award, **Dr. Carmen Brewer**. Also at this session, the Editor of **Ear and Hearing**, **Dr.**





Ruth Litovsky, will present the Editors' Award and the Readers' Choice Awards for the best manuscripts in our journal.

NIDCD support includes Student Travel Awards, which are given to meritorious students to attend the Annual AAS meeting and present a poster summarizing their research efforts. This year, 20 students were selected in the highly competitive Mentored Graduate Student and Resident Research Poster category, and 10 of them will also share brief oral previews in the Student Poster Forum. In addition, 14 AuD students who completed T35 Research Traineeships are receiving travel support to present their work and participate in our meeting.

The AAS New Investigator Travel Award exists to encourage the participation of new investigators in our Annual meeting. These awards are quite competitive, as we received 31 submissions this year. We are pleased that **Drs. Samantha Gustafson, Eric Johnson, Monica Trevino and Kerry Walker** have been selected for podium presentations at the meeting.

Mentoring Sessions

Please join us Friday afternoon following the awards ceremony as NIDCD program officers provide an update on funding opportunities for students and young investigators. This will be followed by an IDEAS panel on Exploring Issues of IDEA in Research and Clinical Practice. Next, a Session on Establishing Effective Mentoring Relationships will follow. These sessions will be a great educational and networking opportunity for students and early career clinician-scientists and will lead into the Friday evening Happy Hour. New this year, first time attendees will have badge ribbons and designated tables at lunch - please seek them out to make new connections!

Social Events

We will host two social events this year - the Opening Reception Thursday evening following the Carhart Memorial Lecture will again take place at the beautiful Scottsdale Plaza Resort, and will feature appetizers, beverages, and entertainment. On Friday, we have organized a Happy Hour with a cash bar and light snacks that is open to all attendees. You will not want to miss these opportunities to catch up with old friends and colleagues and make new connections!



Program Committee

I am deeply indebted to AAS Executive Director Darla Eastlack for her extraordinary ability to ensure that the planning and execution of each meeting is a success. I am also indebted to the many people who helped peer-review the record 322 abstracts (25% increase) that we received for this meeting to ensure that the scientific content of this meeting is a high calibre. They are:

Michelle Arnold
Shilpi Banerjee
Curtis Billings
Chelsea Blankenship
William Bologna
Sriram Boothalingam
Adam Bosen

Kristy Deiters
Dave Fabry
Matthew Fitzgerald
Jason Galster
Angela Garinis
Tina Grieco-Calub
O'neil Guthrie

Rachael Holt
Jungmee Lee
Frank Lin
Ryan McCreery
Gabrielle Merchant
Aaron Moberly

Brian Monson
Christina Roup
Jessica Sullivan
Elizabeth Walker
Heather Weinreich
Matthew Winn

I am eagerly anticipating meeting in Scottsdale, hearing about new developments in our field, celebrating the awardees, and catching up with dear friends and colleagues. We congratulate all the award-winning students, new and established investigators, and distinguished scientists who will be presenting, and look forward to hearing about their work. I am grateful to the AAS Board for their help planning this meeting, and I'd especially like to thank previous Chairs Francis Kuk and René Gifford for their sage advice throughout the planning process.

Finally, a very special **Thank You** to the members of this great society who sustain this organization and provide such a special meeting year after year with your scientific contributions and collegial interactions. I and the rest of the Board look forward to participating with everyone at the 2024 Annual Meeting!

Lisa L. Hunter, PhD
2024 Program Chair





Visit <https://www.amauditorysoc.org/program> for abstracts and program updates.

WEDNESDAY, FEBRUARY 14, 2024

8:00 AM – 12:00 PM Ear & Hearing Editorial Board Meeting **LODGE BOARDROOM**

1:00 PM – 5:00 PM AAS Executive Board Meeting **LODGE BOARDROOM**

1:00 PM – 5:30 PM Registration **CONVENTION DESK**

THURSDAY, FEBRUARY 15, 2024

7:45 AM – 5:00 PM Registration **CONVENTION DESK**

7:50 AM – 8:00 AM Opening Comments **GRAND BALLROOM ABC**
Francis Kuk, PhD, AAS President
Lisa Hunter, PhD, President-Elect and Program Chair

8:00 AM – 9:00 AM Translational Research I **GRAND BALLROOM ABC**
Moderator: Rachael Frush Holt, PhD

Voice and Speech Perception in Children with Hearing Devices
Deniz Baskent, PhD
Professor, University Medical Center Groningen, University of Groningen, Groningen, The Netherlands



THURSDAY, FEBRUARY 15, 2024

9:10 AM – 11:30 AM

CONCURRENT PODIUM PRESENTATIONS

PODIUM SESSION I: AMPLIFICATION I GRAND BALLROOM ABC

Moderator: *Shilpi Banerjee, PhD*

- 9:10 AM – 9:30 AM Impact of Service-Delivery Model and Hearing-Aid Technology on Patient Outcomes
Yu-Hsiang Wu, MD, PhD, University of Iowa, Iowa City, IA
- 9:30 AM – 9:50 AM Patient Factor Predictors of Hearing Aid Service Level-Based Outcomes
Todd A. Ricketts, PhD, Vanderbilt University Medical Center, Nashville, TN
- 9:50 AM – 10:10 AM How Many Settings does an OTC Hearing Aid Need?
Erik Jorgensen, AuD, PhD, CCC-A, UW-Madison, Madison, WI
- 10:10 AM – 10:30 AM BREAK**
- 10:30 AM – 10:50 AM Effects of Artificial-Intelligence-Based Noise Suppression on Intelligibility and Subjective Noise
New Investigator Presentation
Eric M. Johnson, AuD, PhD, West Virginia University, Morgantown, WV
- 10:50 AM – 11:10 AM RHHI and Pure-Tone Average Predict Hearing Aid Use Equally Well
Lauren K. Dillard, AuD, PhD, Medical University of South Carolina, Charleston, SC
- 11:10 AM – 11:30 AM Impact of Alignment Delay on Assistive Listening in Large Venues
Thomas Kaufmann, MS, Arizona State University, Tempe, AZ

PODIUM SESSION II: COCHLEAR IMPLANTS GRAND BALLROOM DEF

Moderator: *Julie G. Arenberg, PhD*

- 9:10 AM – 9:30 AM Evaluation of Need for Annual Cochlear Implant Appointments via App-Based Self-Assessments
Tim Schoof, PhD, Advanced Bionics, Valencia, CA
- 9:30 AM – 9:50 AM For Some Cochlear-Implant Users, One Ear Can Interfere with the Other
Joshua G.W. Bernstein, PhD, Walter Reed National Military Medical Center, Bethesda, MD
- 9:50 AM – 10:10 AM Assessing Test-Retest Reliability of Retrofittable Compact Speaker Arrays
Coral E. Dirks, AuD, PhD, University of South Dakota, Vermillion, SD
- 10:10 AM – 10:30 AM BREAK**
- 10:30 AM – 10:50 AM Emotional Responses to Non-Speech Sounds in Cochlear Implant Users
Haiping Huang, AuD, Vanderbilt University, Nashville, TN
- 10:50 AM – 11:10 AM Vocal Mimicry Illustrates Perception of Prosody through a Cochlear Implant
David M. Landsberger, PhD, New York University Grossman School of Medicine, New York, NY



THURSDAY, FEBRUARY 15, 2024

11:10 AM – 11:30 AM Neurocognitive Contributions to the Recognition of Spectrally Degraded Speech
Aaron C. Moberly, MD, Vanderbilt University Medical Center, Nashville, TN

PODIUM SESSION III: HEARING & RISKS LA VALENCIA

Moderator: Andrew J. Oxenham, PhD

9:10 AM – 9:30 AM Associations of Multisensory Impairment with Cognitive Impairment and Dementia
Jason R. Smith, ScM, Johns Hopkins University, Baltimore, MD

9:30 AM – 9:50 AM Audibility Index and Associations with Dementia in the ARIC Study
Jacqueline M. Weycker, AuD, University of Minnesota, Minneapolis, MN;
Isabel N. Herb, AuD, University of Minnesota, Minneapolis, MN

9:50 AM – 10:10 AM Sensory and Motor Functions Improve Predictions of Neurodegenerative Biomarker Positivity
Natascha Merten, PhD, Department of Population Health Sciences, School of Medicine and Public Health, University of Wisconsin-Madison, WI

10:10 AM – 10:30 AM

BREAK

10:30 AM – 10:50 AM Hearing Loss and Loneliness in Older Adults: Proposing Explanatory Factors
Jonathan J. Suen, PhD, AuD, Johns Hopkins University, Baltimore, MD

10:50 AM – 11:10 AM Improving Speech Cue Audibility for Adults with Profound Hearing Loss
Bernadette Fulton, MS, Sonova Communications AG, Murten, Switzerland

11:10 AM – 11:30 AM The Effect of High-Frequency Spectral Cues on Monaural Spatial Hearing
Hillary A. Snapp, AuD, PhD, University of Miami Miller School of Medicine, Miami, FL

11:30 AM – 12:30 PM LUNCH CYPRESS COURT

12:00 PM – 1:00 PM STUDENT TRAVEL AWARD POSTER FORUM GRAND BALLROOM DEF

Moderator: Adam K. Bosen, PhD

Envelope Following Response and Auditory Brainstem Response as Potential Biomarkers of Central Compensation Following Selective Inner Hair Cell Loss
Andie Zang, AuD, The University of Texas at Dallas, Dallas, TX

Effects of Age and Developmental Disability Status on Behavioral Assessment
Linjie Shi, BA, Vanderbilt University, Nashville, TN

Functional Auditory-Nerve Recovery Despite Persistent Synapse Loss After Excitotoxic Injury
Penelope Jeffers, BA, Program in Speech and Hearing Bioscience and Technology, Harvard University, Boston, MA; Eaton-Peabody Laboratories, Massachusetts Eye & Ear, Boston, MA

Speech Perception in Age-Related Hearing Loss: Aided vs Unaided fNIRS Findings
Allison Hancock, MS, Utah State University, Logan, UT



THURSDAY, FEBRUARY 15, 2024

Visual Social Attention and Pragmatics in Adolescents who are Deaf/
Hard-of-Hearing
Holly Lind-Combs, The Ohio State University, Columbus, OH

Interplay Between Intonation Perception and Speech Emotion Recognition
Benjamin Amartey, MS, Northwestern University, Evanston, IL

Effects of Ear-Tip Loosening on Wideband Absorbance Measurements
in Newborns
Caitlin Greer, BS, University of Louisville School of Medicine, Louisville, KY

Extended-High-Frequency Hearing Contributions in Speech-in-Noise
Perception in Cystic Fibrosis Patients
*Lamiaa Abdelrehim, MD, MS, Cincinnati Children's Hospital Medical Center; University
of Cincinnati, Cincinnati, OH*

Frequency-to-Place Mismatch and Cochlear Implant Acclimatization:
What Factors Really Matter?
*Andie DeFreese, AuD, Vanderbilt University, Department of Hearing and Speech Sciences,
Nashville, TN*

Cortical Auditory Processing and Speech Perception from Childhood
to Adolescence
Kumari Anshu, PhD, University of Wisconsin-Madison, Madison, WI

12:30 PM – 12:45 PM

POSTER SESSION I SETUP – PUT UP POSTERS TERRAZA

1:00 PM – 2:00 PM

(Hearing) Industry Research Consortium Sponsored Session,
<http://hearingirc.com> GRAND BALLROOM ABC
Moderator: Dave Fabry, PhD

Improved Behavioral, Cognitive, Emotion, and Physiologic Outcomes
with Amplification
Sharon Miller, PhD, University of North Texas, Denton, TX
Erin C. Schafer, PhD, University of North Texas, Denton, TX

1:00 PM – 2:00 PM

Ear & Hearing Reviewer Training Program Interest Meeting GRAND BALLROOM DEF
Presenters: Ruth Litovsky, PhD; Michelle Hughes, PhD; Lisa Hunter, PhD

2:00 PM – 4:55 PM

TECHNOLOGY UPDATES

2:00 PM – 2:55 PM

TECHNOLOGY UPDATES, SESSION 1

2:00 PM – 2:25 PM

First Round

Session 1A

Demythologizing Over-the-Counter Hearing Aids
Harvey B. Abrams, PhD, Jabra Hearing GRAND BALLROOM ABC

Session 1B

Advances in SmartEP - Simultaneous Acquisition of Frequency
Following Responses and Cortical Evoked Potentials
Rafael E. Delgado, PhD, Intelligent Hearing Systems Corp GRAND BALLROOM DEF



THURSDAY, FEBRUARY 15, 2024

Session 1C	Cognition and Hearing Loss: Enhancing the Conversation with Phonak <i>Shannon M. Basham, AuD, Phonak</i> LA VALENCIA
Session 1D	Audible Contrast Threshold (ACT): A Language-Independent Diagnostic Test of Speech-In-Noise Ability to Improve Hearing-Aid Fitting <i>Sébastien Santurette, PhD, Interacoustics</i> EL TEATRO
2:30 PM – 2:55 PM	Repeat of Sessions 1A – 1D
3:00 PM – 3:55 PM	TECHNOLOGY UPDATES, SESSION 2
3:00 PM – 3:25 PM	First Round
Session 2A	Clinical Outcomes of Cochlear Implant Recipients Following Remote Programming with Investigational and Commercial Systems <i>Jason Galster, PhD, Advanced Bionics</i> GRAND BALLROOM ABC
Session 2B	Gaining an Edge with Edge Mode+: On-demand hearing-aid processing with Genesis AI <i>Michelle Hicks, PhD, Starkey</i> GRAND BALLROOM DEF
Session 2C	Important Considerations for Audiologists in the Diagnosis and Understanding of Genetic Hearing Loss <i>Michelle D. Valero, PhD, Akouos, A Wholly Owned Subsidiary of Eli Lilly and Company</i> LA VALENCIA
Session 2D	The Collaboration Between Patient Empowerment tools, Hearing Healthcare Providers and Artificial Intelligence to Optimize Patient Outcomes <i>Jodi Sasaki-Miraglia, AuD, Widex USA</i> EL TEATRO
3:30 PM – 3:55 PM	Repeat of Sessions 2A – 2D
4:00 PM – 4:55 PM	TECHNOLOGY UPDATES, SESSION 3
4:00 PM – 4:25 PM	First Round
Session 3A	Next Level Connectivity: Bluetooth Low Energy Audio with ReSound Nexia <i>Jill Mecklenburger, AuD, GN Hearing</i> GRAND BALLROOM ABC
Session 3B	Harnessing the Power of Artificial Intelligence to Improve Patient Outcomes & Clinical Efficiency <i>Brian J. Taylor, AuD, Signia, WS Audiology</i> GRAND BALLROOM DEF
Session 3C	Multi-Modal Sensor Integration to Predict User Intent and Steer Advanced Hearing-Aid Features <i>Sébastien Santurette, PhD, Oticon</i> LA VALENCIA
4:30 PM – 4:55 PM	Repeat of Session 3A – 3C



THURSDAY, FEBRUARY 15, 2024

5:00 PM – 6:15 PM

CARHART MEMORIAL LECTURE GRAND BALLROOM ABC

Moderator: Lisa Hunter, PhD

Introduction: Gabrielle Merchant, AuD, PhD

The Ear: In Search of Solutions for Engineers and Clinicians

Hideko Heidi Nakajima, MD, PhD

Associate Professor, Department of Otolaryngology-Head and Neck Surgery, Harvard Medical School, and Massachusetts Eye and Ear, Boston, MA

6:30 PM – 7:30 PM

OPENING RECEPTION CYPRESS COURT

FRIDAY, FEBRUARY 16, 2024

7:45 AM – 1:30 PM

Registration CONVENTION DESK

8:00 AM – 8:30 AM

EARLY CAREER RESEARCH AWARD PRESENTATION GRAND BALLROOM ABC

Moderator: Aaron C. Moberly, MD

Personalized Evidence-Based Adult Cochlear Implant Care Using the CIQOL Instruments

Teddy R. McRackan, MD, MSCR

Associate Professor, Medical Director Cochlear Implant Program, Director Skull Base Center, Department of Otolaryngology-Head and Neck Surgery, Medical University of South Carolina, Charleston, SC

8:30 AM – 9:30 AM

Translational Research II - Killion Lecture GRAND BALLROOM ABC

Moderator: Jason Galster, PhD

New Models of Human Hearing Via Machine Learning

Josh McDermott, PhD

Department of Brain and Cognitive Sciences, Massachusetts Institute of Technology, Cambridge, MA

9:30 AM – 11:30 AM

Poster Session I Presentations TERRAZA

Presenters with odd numbered posters should plan to present between 9:30 am - 10:30 am.

Presenters with even numbered posters should plan to present between 10:30 am - 11:30 am.

Presenters are also free to be available at any other time the poster is on display.

11:30 AM – 11:45 AM

POSTER SESSION I - TAKE DOWN POSTERS TERRAZA

11:30 AM – 12:30 PM

AWARDS & RECOGNITIONS GRAND BALLROOM ABC

Membership Update: Francis Kuk, PhD, AAS President

Life Achievement Award: Carmen C. Brewer, PhD

Ear and Hearing Update: Ruth Litovsky, PhD, Editor-in-Chief

Ear and Hearing Editors' Award: Fitzgerald, Matthew B.; Gianakas, Steven P.;

Qian, Z. Jason; Losorelli, Steven; Swanson, Austin C. Preliminary Guidelines for Replacing Word-Recognition in Quiet With Speech in Noise Assessment in the Routine Audiologic Test Battery. Ear and Hearing. 44(6):1548-1561. November/December 2023.

Ear and Hearing Readers' Choice Award: Cochlear Implants or Hearing Aids: Speech Perception, Language, and Executive Function Outcomes. Boerrigter, Merle Sanne; Vermeulen, Anneke. M.; Benard, Michel Ruben; van Dijk, Hans. J.



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E.; Marres, Henri A. M.; Mylanus, Emmanuel A. M.; Langereis, Margreet C. *Ear and Hearing*. 44(2):411-422. March/April 2023.

Ear and Hearing Readers' Choice Award: Environmental Factors for Hearing Loss and Middle Ear Disease in Alaska Native Children and Adolescents: A Cross-Sectional Analysis from a Cluster Randomized Trial. Hicks, Kelli L.; Robler, Samantha Kleindienst; Platt, Alyssa; Morton, Sarah N.; Egger, Joseph R.; Emmett, Susan D. *Ear and Hearing*. 44(1):2-9. January/February 2023

12:30 PM – 1:30 PM

LUNCH CYPRESS COURT

12:30 PM – 1:30 PM

NIDCD Grant Information Session **GRAND BALLROOM ABC**

Moderator: Steven Gianakas, AuD, PhD

Presenters: Kelly King, AuD, PhD; Jaclyn Schurman, AuD, PhD

Funding from the National Institute on Deafness and Other Communication Disorders (NIDCD) advances scientific and clinical discovery. NIDCD staff will provide an overview of fellowship, career development, and research funding opportunities. The session will also cover advice for successful applications. This session is aimed at AuD or PhD students, post-doctoral fellows, and early-stage investigators.

1:15 PM – 1:30 PM

POSTER SESSION II SETUP – PUT UP POSTERS TERRAZA

1:30 PM – 3:30 PM

Poster Session II Presentations **TERRAZA**

Presenters with odd numbered posters should plan to present between 1:30 pm - 2:30 pm.

Presenters with even numbered posters should plan to present between 2:30 pm - 3:30 pm.

Presenters are also free to be available at any other time the poster is on display.

4:00 PM – 5:00 PM

Exploring Issues of IDEA in Research and Clinical Practice **GRAND BALLROOM ABC**

Session organized by the AAS Diversity Committee

Moderator: Jessica R. Sullivan, PhD

Presenters: Kristina Bowdrie, AuD; Lauren Calandrucchio, PhD; Monita Chatterjee, PhD;

Diane M. Martinez, AuD

5:00 PM – 6:00 PM

Establishing Effective Mentoring Relationships **GRAND BALLROOM ABC**

Session Organized by the Student and Post-Doctoral Mentoring Committee

Moderators: Tina Grieco-Calub, PhD; Angela Garinis, PhD

Presenters: Hammam AlMakadma, PhD, AuD; Coral Dirks, PhD, AuD; Laura Dreisbach Hawe, PhD

6:00 PM – 7:00 PM

HAPPY HOUR CONVENTION FOYER

Informal setting to socialize and meet new people. A cash bar and light snacks will be available.





SATURDAY, FEBRUARY 17, 2024

7:45 AM – 4:15 PM Registration **CONVENTION DESK**

8:00 AM – 9:00 AM Translational Research III **GRAND BALLROOM ABC**
Moderator: O'neil Guthrie, PhD

Auditory Olivocochlear Efferent Feedback System Changes with Aging and Noise Exposure
Amanda M. Lauer, PhD
Associate Professor, Johns Hopkins University School of Medicine, Baltimore, MD

9:15 AM – 12:15 PM Concurrent Podium Presentations

PODIUM SESSION IV: AMPLIFICATION II - ACHIEVE **GRAND BALLROOM ABC**
Moderator: Ryan McCreery, PhD

9:15 AM – 9:35 AM Design, Recruitment, and Baseline Characteristics of the ACHIEVE Study
Nicholas S. Reed, AuD, PhD, Johns Hopkins University, Baltimore, MD

9:35 AM – 9:55 AM Design and Implementation of Patient-Centered Interventions for the ACHIEVE Study
Victoria A. Sanchez, AuD, PhD, University of South Florida, Tampa, FL

9:55 AM – 10:15 AM Patient-Centered Selection of Hearing Technology and Related Outcomes from the ACHIEVE Study
Michelle Arnold, AuD, PhD, University of South Florida, Tampa, FL

10:15 AM – 10:35 AM Effect of Hearing Intervention on Cognitive Decline: The ACHIEVE Trial
Jennifer A. Deal, PhD, Johns Hopkins University, Baltimore, MD

10:35 AM – 10:55 AM BREAK

10:55 AM – 11:15 AM Effect of Hearing Intervention on Three-Year Change in Brain Morphology
James Russell Pike, Johns Hopkins University, Baltimore, MD

11:15 AM – 11:35 AM Utilization of Audiological Services During the ACHIEVE Hearing Intervention
Emmanuel E. Garcia Morales, PhD, Cochlear Center for Hearing and Public Health, Baltimore, MD

11:35 AM – 11:55 AM Addressing Technological Barriers to Hearing Care: HEARS RCT
Ethan B. Wang, Cochlear Center for Hearing and Public Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD

11:55 AM – 12:15 PM Medicare Annual Wellness Visit: Opportunity for Systematic Support for Hearing
Danielle S. Powell, AuD, PhD, University of Maryland, College Park, MD



SATURDAY, FEBRUARY 17, 2024

PODIUM SESSION V: OTOTOXICITY & TINNITUS LA VALENCIA

Moderator: Dawn Konrad-Martin, PhD

- 9:15 AM – 9:35 AM A Multinational Delphi Consensus on Program Objectives for Ototoxicity Management
Dawn Konrad-Martin, PhD, VA RR&D National Center for Rehabilitative Auditory Research, VA Portland Health Care System; Department of Otolaryngology Head-Neck Surgery, Oregon Health & Science University, Portland, OR
- 9:35 AM – 9:55 AM Ototoxicity Profiles of Patients Receiving Alternate Cisplatin Administration Schedules
Katharine A. Fernandez, AuD, PhD, National Institute on Deafness and Other Communication Disorders, Bethesda, MD
- 9:55 AM – 10:15 AM Rise of the Machines: Modeling to Predict and Prevent Ototoxicity
J. Riley DeBacker, AuD, PhD, VA RR&D National Center for Rehabilitative Auditory Research, Portland, OR
- 10:15 AM – 10:35 AM Randomized, Placebo-Controlled Interventional Study of Atorvastatin to Prevent Cisplatin-Induced Ototoxicity
Katharine A. Fernandez, AuD, PhD, National Institute on Deafness and Other Communication Disorders, Bethesda, MD
- 10:35 AM – 10:55 AM BREAK**
- 10:55 AM – 11:15 AM Detection and Diagnosis of Ototoxicity from Occupational Exposures: A Review
Thais Morata, PhD, National Institute for Occupational Safety and Health, Cincinnati, OH
- 11:15 AM – 11:35 AM Acceptability and Effectiveness of Remote Counseling for Tinnitus
Ann Perreau, PhD, Augustana College, Rock Island, IL
- 11:35 AM – 11:55 AM An Equal-Loudness Compensation Algorithm of Sound Therapy for Tinnitus with Hearing Loss
Qin Gong, PhD, Department of Biomedical Engineering, Tsinghua University, Beijing, China
- 11:55 AM – 12:15 PM Emotion Classification Performance Affected by Moderate to Severe Hearing Loss
William Martens, PhD, National Acoustic Laboratories, Macquarie University, NSW, Australia

PODIUM SESSION VI: HEARING MEASURES & ELECTROPHYSIOLOGY GRAND BALLROOM DEF

Moderator: Aaron K. Remenschneider, MD

- 9:15 AM – 9:35 AM Rapid Clicks for Comprehensive Auditory Peripheral Health Estimation
Sriram Boothalingam, PhD, Macquarie University/National Acoustic Laboratories, NSW, Australia
- 9:35 AM – 9:55 AM Cochlear Tuning Estimates Following Resolved Otitis Media in Children
New Investigator Presentation
Monica Trevino, AuD, PhD, The University of Texas at Austin, Austin, TX



SATURDAY, FEBRUARY 17, 2024

9:55 AM – 10:15 AM	Controlling for Auditory Abilities when Measuring Distraction: A Pilot Study <i>New Investigator Presentation</i> Samantha J. Gustafson, AuD, PhD, University of Utah, Salt Lake City, UT
10:15 AM – 10:35 AM	Determining Air Bone Gaps at Extended High Frequencies Aaron K. Remenschneider, MD, Massachusetts Eye and Ear Infirmary / Boston Children's Hospital / Harvard Medical School, Boston, MA
10:35 AM – 10:55 AM	BREAK
10:55 AM – 11:15 AM	Objective Assessment of Hearing Thresholds Based on Joint Swept-Tone DPOAEs and SFOAEs Qin Gong, PhD, Department of Biomedical Engineering, Tsinghua University, Beijing, China
11:15 AM – 11:35 AM	Neural Tracking of Speech and Environment with Multi-Modal Sensor Integration Kasper Eskelund, PhD, Oticon, Smørum, Denmark
11:35 AM – 11:55 AM	Age-Related Changes to Binaural Hearing: Behavioral and Electrophysiological Indicators <i>New Investigator Presentation</i> Kerry Anthony Walker, AuD, University of Colorado School of Medicine, Aurora, CO
11:55 AM – 12:15 PM	Associations of Primary Spoken Language with Individual Perception of Hearing-Related Disability Lauren Dillard, AuD, PhD, Medical University of South Carolina, Charleston, SC
12:15 PM – 12:30 PM	POSTER SESSION II – TAKE DOWN POSTERS TERRAZA
12:30 PM – 1:30 PM	LUNCH CYPRESS COURT
1:30 PM – 4:00 PM	SPECIAL SESSION: ARTIFICIAL INTELLIGENCE AND HEARING HEALTHCARE GRAND BALLROOM ABC Moderator: David Moore, PhD Digital Patient Clones for Individualized Clinical Inference Dennis Barbour, MD, PhD Professor of Biomedical Engineering, Washington University, St. Louis, MO Generating, Handling, and Drawing Inferences from Big Data in Hearing Healthcare Vinaya Manchaiah, AuD, MBA, PhD Professor and Director of Audiology, University of Colorado School of Medicine, Aurora, CO Driving Hearing Devices Using Conversation and Communication Statistics Christi Miller, PhD, CCC-A Meta, Reality Labs Research, Seattle, WA Potentials of and Barriers to the Use of Artificial Intelligence in Hearing Aids Brian C.J. Moore, PhD Cambridge Hearing Group, Department of Psychology, University of Cambridge, UK Panel Discussion
4:00 PM – 4:15 PM	SUMMARY AND ADJOURNMENT GRAND BALLROOM ABC



SAVE THE DATE!



The 52nd Annual Scientific & Technology Conference will be held
at the Scottsdale Plaza Resort in Scottsdale, Arizona,
February 13 - 15, 2025.