The American Auditory Society is approved by the American Academy of Audiology to offer Academy CEUs for this activity. The program is worth a maximum of 1.8 CEUs. Academy approval of this continuing education activity does not imply endorsement of course content, specific products, or clinical procedures. Any views that are presented are those of the presenter/CE provider and not necessarily of the American Academy of Audiology.

The International Hearing Society awards 18 credit hours of CEU's.

This program is approved by the International Hearing Society and its educational committee, the International Institute for Hearing Instruments Studies.

This conference is offered for up to 1.8 ASHA CEUs at the instructional level.

**DISCLOSURE POLICY**

It is the policy of the American Auditory Society to ensure balance, independence, objectivity and scientific rigor in all its educational activities. All faculty participating in this activity are expected to disclose to the audience any significant financial or non-financial interest or other relationship he/she has that could impair his/her judgment and/or influence or bias the content discussed in an educational presentation.
FRI DAY NIGHT EVENT

Join us on March 3 for our special Friday evening social event at Western Spirit: Scottsdale’s Museum of the West! Buses will pick up under the bridge where the hotel bridges together in the east crosswalk (under the restaurant) at 5:45 pm and take us to the Museum. Western Spirit: Scottsdale’s Museum of the West celebrates the art, history, culture and unique stories of the 19 states comprising the American West. Our event will be hosted in the museum’s theater and sculpture garden. Attendees will have an opportunity to explore exhibits.

Join us for an evening of light refreshments and fun! Tickets for the Friday night event can be purchased at the AAS Registration Desk.

AAS EXECUTIVE BOARD
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Welcome to the 2017 American Auditory Society Scientific and Technology Conference! This 44th annual meeting continues the tradition of bringing updates on the latest developments in science, technology and clinical practice in a collegial environment. The 2017 program of invited speakers, special events, and highly interesting and varied podium and poster presentations promises to be a three-days filled with science, lively discussion, casual interaction, fun, and relaxation, in a beautiful environment.

We are most grateful for continued support from NIDCD via a conference grant (R13), which has allowed us to bring outstanding Translational Research and Special Session Speakers to the meeting while also supporting Student Travel Awards. Join our NIDCD colleagues on Friday afternoon when they will be update us on NIDCD funding opportunities for students and young investigators.

SPEAKERS AND SPECIAL PROGRAM
As always, the 2017 AAS program is replete with outstanding speakers and special programs. The Carhart Lecture this year is Dr. Robert Dobie of the University of Texas Health Science Center. His lecture, Reducing the Costs of Noise-Induced Hearing Loss, at 5:00 pm on Thursday should be of great interest to all attendees. The talk will be immediately followed by a reception that will give everyone an opportunity to meet and talk casually with all of the 2017 Invited Speakers.

The 2017 Distinguished Translational Research Speakers include Dr. Mary Pat Moeller who will speak on Longitudinal Outcomes Of Children With Mild To Severe Hearing Loss, Dr. Devin McCaslin who will speak on Pediatric Balance Disorders, and Richard Lyon, Principal Scientist with Google, Inc., who will speak on Computational Models Of Hearing And Auditory Processing. On Saturday afternoon, a group of scientists will convene to present a Special Session on Patient-Focused Emerging Technologies. Presentations will be delivered by Elizabeth Convery, Dr. Yu-Hsiang Wu, Dr. Gurjit Singh, and Dr. Frank Russo.

To inspire students and residents, the NIDCD grant funds a successful Young Investigator to tell his/her story about the important aspects to beginning a career as an independent investigator. This year, our 2017 Young Investigator, Dr. Naomi Bramhall, will share her story and insights on the necessary ingredients for a successful career as an independent investigator.
AWARDS
Each year, the Society has the privilege of recognizing outstanding research and lifelong achievement. The Awards Luncheon on Friday, hosted by our President, Dr. Beth Prieve will include tribute to Dr. Patricia G. Stelmachowicz, 2017 recipient of the Life Achievement Award. In addition, Dr. Brenda Ryals, Editor of Ear and Hearing, will present the Editor’s Award for the best manuscript in our journal.

NIDCD support includes Student Travel Awards given to students to attend the Annual AAS meeting. This year, 20 students were selected in the highly competitive Mentored Graduate Student and Resident Research Poster category. In addition, 19 AuD students who completed T35 Research Traineeships are receiving travel support to participate in our meeting.

In addition to students, the Society is also committed to highlighting the work of new investigators. To encourage new investigator’s participation in its Annual meeting, AAS has established the New Investigator Travel Award to provide financial support to attend the meeting. Now in its 4th year, these awards are extremely competitive. The 2017 four awardees are new investigators, within 5 years of their PhD, post-doctoral training or residency, whose outstanding abstracts were selected for presentation at the meeting.

We congratulate all of the award-winning students, young and senior investigators, and distinguished scientists and look forward to hearing about their work.

SOCIAL EVENT
On Friday evening, the AAS Social – a longstanding tradition in the Society – will take place at Western Spirit: Scottsdale’s Museum of the West. We hope you will join us in exploring the Museum that celebrates the art, history, culture and unique stories of the 19 states comprising the American West. Register early to secure your ticket!

PROGRAM COMMITTEE
I am indebted to the members of the Program and Abstract Review Committee who have spent many hours to assure that this year’s program is of the highest quality. Program Committee members are:

Harvey Abrams
Jane Ahlstrom
Julie Bierer
Carmen Brewer
Bob Burkard

Anthony Cacace
Rafael Delgado
Laura Dreisbach
John Ferraro
Jill Firszt

Rene Gifford
Shawn Goodman
Beth Prieve
Li Xu

We are also indebted to the tireless effort of Darla Eastlack, our extraordinary Executive Director, to make our meeting a huge success.

Finally, we take this opportunity to THANK YOU — our members and Annual Meeting attendees — and, hope that you will enjoy the 2017 meeting to the fullest! We look forward to welcoming you to the 44th Annual Meeting in Scottsdale, AZ.

Anil K. Lalwani, MD
Program Chair
WEDNESDAY, MARCH 1, 2017

8:00 am – 12:00 pm  Ear and Hearing Editorial Board Meeting
1:00 pm – 5:00 pm  AAS Executive Board Meeting
1:00 pm – 5:30 pm  Early Registration  WEST FOYER

THURSDAY, MARCH 2, 2017

7:30 am – 5:00 pm  Registration  WEST FOYER
8:00 am – 11:55 am  TECHNOLOGY UPDATES

8:00 AM – 8:55 AM  TECHNOLOGY UPDATES, SESSION 1

8:00 AM – 8:25 AM  First Round

Session 1A  Maximizing the Bimodal Fitting: Benefits and Hearing Aid Fitting Strategies for Bimodal Patients (Tech 1A)
Neil Wright, AuD, GN ReSound  MOHAVE

Session 1B  How to Make Domes More Comfortable (Tech 1B)
Aart van Halteren, MS, Sonion Nederland B.V.  KIVA-HACIENDA

Session 1C  Going BEYOND (Tech 1C)
Francis Kuk, PhD, Widex  PALOMA
THURSDAY, MARCH 2, 2017

8:30 AM – 8:55 AM  Repeat of Sessions 1A through 1C

9:00 AM – 9:55 AM  TECHNOLOGY UPDATES, SESSION 2

9:00 AM – 9:25 AM  First Round

Session 2A  Improving EHDI with the HearLab: Clinical Assessment of the Cortical Auditory Evoked Potential in Infants and Children with Hearing Loss (Tech 2A)  
Elizabeth Musgrave, AuD, Hearts for Hearing on behalf of Frye Electronics, Inc.  MOHAVE

Session 2B  Proven Benefits of the Synergy Platform (Tech 2B)  
Elizabeth Galster, AuD, Starkey Hearing Technologies  PALOMA

9:30 AM – 9:55 AM  Repeat of Sessions 2A through 2B

10:00 AM – 10:55 AM  TECHNOLOGY UPDATES, SESSION 3

10:00 AM – 10:25 AM  First Round

Session 3A  The Business Case for Tele-Diagnostics / Aegis Technology Platform for Home Hearing Aid Adjustments and Counseling (Tech 3A)  
Dave Davis, RemotEAR  MOHAVE

Session 3B  How a Faster DSP is Changing the Way Consumers and Hearing Aid Users View the Use of their Amplification (Tech 3B)  
Annette Mazevski, PhD, Oticon, Inc.  KIVA-HACIENDA

Session 3C  Advances in Newborn Hearing Screening Using a Simultaneous Air and Bone Conduction Stimulus Ramping Technique (Tech 3C)  
Rafael Delgado, PhD, Intelligent Hearing Systems  PALOMA

10:30 AM – 10:55 AM  Repeat of Sessions 3A through 3C

11:00 AM – 11:55 AM  TECHNOLOGY UPDATES, SESSION 4

11:00 AM – 11:25 AM  First Round

Session 4A  Recharging the Rechargeable Hearing Instrument (Tech 4A)  
Eric Branda, AuD, Sivantos, Inc.  MOHAVE

Session 4B  AutoSense OS: Optimizing Hearing Aid Performance at the Speed of Life (Tech 4B)  
Lori Rakita, AuD, Phonak  PALOMA

11:30 AM – 11:55 AM  Repeat of Sessions 4A through 4B

12:00 pm – 1:00 pm  LUNCH OUTDOORS ON THE WEST PATIO

12:55 pm – 1:10 pm  POSTER SESSION I SETUP – PUT UP POSTERS
THURSDAY, MARCH 2, 2017

1:10 pm – 1:30 pm  Opening Comments  KIVA-HACIENDA
Beth Prieve, PhD, AAS President
Anil Lalwani, MD, President-Elect and Program Chair

1:30 pm – 2:30 pm  Translational Research I  KIVA-HACIENDA
Moderator: Beth Prieve, PhD
Longitudinal Outcomes of Children with Mild to Severe Hearing Loss: Auditory Experience Matters
Mary Pat Moeller, PhD
Boys Town National Research Hospital, Omaha, NE

2:45 pm – 4:45 pm  Concurrent Podium Presentations
(Abstracts at www.amauditorysoc.org)

PODIUM SESSION I:  COCHLEAR IMPLANTS AND OUTCOME MEASURES:  John Niparko Session  MOHAVE I-III
Moderator: Charles Limb, MD

2:45 PM – 3:05 PM  Neural Correlates of Phonetic Categorization in Adult Cochlear Implant Listeners
(Pod.I.A.)  New Investigator Presentation
Sharon Miller, PhD, University Of Louisville, Louisville, KY

3:05 PM – 3:25 PM  Maintaining a Stable Voice with a Cochlear Implant (Pod.I.B.)
Justin Aronoff, PhD, University Of Illinois At Urbana-Champaign, Champaign, IL

3:25 PM – 3:45 PM  Cochlear Implantation in Cases of Unilateral Hearing Loss: Quality of Life (Pod.I.C.)
Margaret Dillon, AuD, University Of North Carolina At Chapel Hill, Chapel Hill, NC

3:45 PM – 4:05 PM  Psychophysical Tuning Curves in Pediatric Cochlear Implant Listeners (Pod.I.D.)
Julie Arenberg Bierer, PhD, University Of Washington, Seattle, WA

4:05 PM – 4:25 PM  Have Technological Advancements in Hearing Aids Improved Subjective Outcomes? (Pod.I.E.)
Jingjing Xu, PhD, Starkey Hearing Technologies, Eden Prairie, MN

4:25 PM – 4:45 PM  Replacing Word-Recognition with Speech in Noise in Standard Audiometric Assessment (Pod.I.F.)
Matthew Fitzgerald, PhD, Stanford University, Palo Alto, CA

PODIUM SESSION II:  ELECTROPHYSIOLOGY (AEPS)  KIVA-HACIENDA
Moderator: Rafael Delgado, PhD

2:45 PM – 3:05 PM  Investigation into Auditory Processing During Sleep in Children (Pod.II.A.)  New Investigator Presentation
Adrienne Roman, PhD, Vanderbilt University, Nashville, TN

3:05 PM – 3:25 PM  Current Applications of ECoChG Beyond the Diagnosis of Meniere’s Disease (Pod.II.B.)
John Ferraro, PhD, University Of Kansas Medical Center, Kansas City, KS

3:25 PM – 3:45 PM  Feasibility of Acupuncture to Induce Sleep for BAER Testing (Pod.II.C.)
Nicole Holmer, MS, Seattle Children’s Hospital, Seattle, WA

3:45 PM – 4:05 PM  Auditory Brainstem Response of the Bottlenose Dolphin Across Click Rate (Pod.II.D.)
Robert Burkard, PhD, University At Buffalo, Buffalo, NY

4:05 PM – 4:25 PM  Jet Fuel and Noise Exposure Results in Central Auditory Dysfunctions (Pod.II.E.)
O’neil Guthrie, PhD, Northern Arizona University, Flagstaff, AZ

4:25 PM – 4:45 PM  Jackson Heart Study: Central Auditory Processing Deficits and Normal Hearing (Pod.II.F.)
Christopher Spankovich, PhD; Lauren Mcnichol, AuD; Mary Frances Johnson, AuD; John Schweinfurth, MD; Charles Bishop, AuD, University Of Mississippi Medical Center, Jackson, MS
THURSDAY, MARCH 2, 2017

PODIUM SESSION III: SPEECH PROCESSING  PALOMA I-III
Moderators: Sandra Gordon-Salant, PhD and Lori Leibold, PhD

Ronan McGarrigle, PhD, Vanderbilt University, Nashville, TN

3:05 PM – 3:25 PM  Code-Switching in Bilingual Adults: Impact on Masked Speech Recognition (Pod. III.B.) New Investigator Presentation
Paula Garcia, PhD, Human Auditory Development Laboratory, Boys Town National Research Hospital, Omaha, NE

3:25 PM – 3:45 PM  Speech-in-Speech Recognition in School-Age Children and Adults (Pod.III.C.)
Emily Buss, PhD, University Of North Carolina At Chapel Hill, Chapel Hill, NC

3:45 PM – 4:05 PM  Realistic Evaluation of Speech Understanding (Pod.III.D.)
Elon Ullman, BA, Advanced Hearing Concepts/Smith-Kettlewell Institute, Bodega Bay, CA

4:05 PM – 4:25 PM  Rapid Evaluation of Hearing using Modified Versions of the Triple Digit Test (Pod. III.E.)
Douglas Brungart, PhD, Walter Reed National Military Medical Center, Bethesda, MD

4:25 PM – 4:45 PM  Influences on Band Independence in Speech Recognition (Pod.III.F.)
Nathaniel Whitmal, PhD, University Of Massachusetts, Amherst, MA

5:00 pm – 6:15 pm  CARHART MEMORIAL LECTURE  KIVA-HACIENDA
Moderator: Linda Hood, PhD
Reducing the Costs of Noise-Induced Hearing Loss
Robert A. Dobie, MD
The University of Texas Health Science Center, San Antonio, TX

6:30 pm – 7:30 pm  OPENING RECEPTION  PALOMA GARDEN

FRIDAY, MARCH 3, 2017

7:30 am – 3:00 pm  Registration  WEST FOYER

8:00 am – 8:30 am  YOUNG INVESTIGATOR RESEARCH PRESENTATION  HACIENDA-PALOMA
Moderator: Kelly Tremblay, PhD
Challenging Life’s Assumptions: Lessons from Hidden Hearing Loss
Naomi F. Bramhall, PhD
National Center for Rehabilitative Auditory Research, VA Portland Healthcare System, Portland, OR

8:30 am – 10:30 am  POSTER SESSION I PRESENTATIONS  WEST PATIO, NORTH AND SOUTH FOYERS
Mentored Graduate Student and Resident Research Posters, T35 Student Research Trainee Posters & General Posters
Abstracts available at www.amauditorysoc.org. Refer to page 22 for poster numbers and categories. Presenters with odd numbered posters will present between 8:30 am - 9:30 am. Presenters with even numbered posters will present between 9:30 am - 10:30 am.
FRIDAY, MARCH 3, 2017

10:30 am – 11:30 am  **TRANSLATIONAL RESEARCH II**  HACIENDA-PALOMA  
Moderator: Robert Burkard, PhD

Pediatric Balance Disorders: Where We’ve Been & Where We Are Going  
Devin L. McCaslin, PhD  
Mayo Clinic, Rochester, MN

11:30 am – 12:00 pm  **POSTER SESSION I – TAKE DOWN POSTERS**

12:00 pm – 1:15 pm  **Awards Luncheon**  MOHAVE-KIVA  
Membership Update: Beth Prieve, PhD, AAS President  
Life Achievement Award: Patricia G. Stelmachowicz, PhD  
Ear and Hearing Editor’s Award: Saunders, Gabrielle H.; Smith, Sherri L.; Chisolm, Theresa H.; Frederick, Melissa T.; McArdle, Rachel A.; Wilson, Richard H. (2016)  

1:15 pm – 1:30 pm  **POSTER SESSION II SETUP – PUT UP POSTERS**

1:30 pm – 3:30 pm  **POSTER SESSION II PRESENTATIONS**  WEST PATIO, NORTH AND SOUTH FOYERS  
Mentored Graduate Student and Resident Research Posters, T35 Student Research Trainee Posters & General Posters  
Abstracts available at www.amauditorysoc.org. Refer to page 22 for poster numbers and categories. Presenters with odd numbered posters will present between 1:30 pm - 2:30 pm. Presenters with even numbered posters will present between 2:30 pm - 3:30 pm.

3:30 pm – 5:00 pm  **NIDCD RESEARCH PRESENTATION**  PALOMA  
Moderator: Jill Firszt, PhD

**NIDCD FUNDING OPPORTUNITIES FOR STUDENTS AND YOUNG INVESTIGATORS**  
Dr. Alberto Rivera-Rentas  
Amy M. Donahue, PhD  
NIDCD, NIH

6:00 pm – 9:00 pm  **AAS SOCIAL AT WESTERN SPIRIT – SCOTTSDALE’S MUSEUM OF THE WEST**  
– TICKET PURCHASE REQUIRED TO ATTEND  
Buses will pick up at 5:45 pm under the bridge (where the hotel bridges together in the east crosswalk, under the restaurant). If you miss the first round of buses, there will be another. Don’t miss a great evening!

SATURDAY, MARCH 4, 2017

7:30 am – 4:30 pm  Registration  WEST FOYER

8:00 am – 9:00 am  **TRANSLATIONAL RESEARCH III**  HACIENDA-PALOMA  
Moderator: Brent Edwards, PhD

Computational Models of Hearing and Auditory Processing  
Richard F. Lyon, Principal Scientist  
Google, Inc., Mountain View, CA

9:15 am – 12:15 pm  Concurrent Podium Presentations  
(Abstracts at www.amauditorysoc.org)
SATURDAY, MARCH 4, 2017

PODIUM SESSION IV: AMPLIFICATION / HEARING AIDS  MOHAVE
Moderator: Dennis Van Vliet, AuD

9:15 AM – 9:35 AM  Domain-Specific Locus of Control and Hearing Aid Uptake (Pod.IV.A.)
Rebecca Kelly-Campbell, PhD, University Of Canterbury, Christchurch, New Zealand

9:35 AM – 9:55 AM  Hearing Aid RCT Comparing Best-Practices and OTC Service Delivery (Pod.IV.B.)
Larry Humes, PhD, Indiana University, Bloomington, IN

9:55 AM – 10:15 AM  Towards Individualization of Hearing Aid Microphone Technologies in Adults (Pod.IV.C.)
Todd Ricketts, PhD, Vanderbilt University, Nashville, TN

10:15 AM – 10:35 AM  Can Sound Beams Improve TV Listening with Asymmetric Hearing? (Pod.IV.D.)
Vishakha Rawool, PhD, West Virginia University, Morgantown, WV

10:35 AM – 10:55 AM  REFRESHMENT BREAK

10:55 AM – 11:15 AM  Evaluation of the 1:1 Communication Mode and of the Self-Fitting (Pod. IV.E.)
Chas Pavlovic, PhD, Batandcat Corporation, Palo Alto, CA

11:15 AM – 11:35 AM  Effects of Compression on Sound Localization Cues (Pod.IV.F.)
Anna Diedesch, PhD, Oregon Health & Science University, Portland, OR

11:35 AM – 11:55 AM  RESTART Theory: How Envelope Processing Constrains Spatial Hearing (Pod.IV.G.)
G. Christopher Stecker, PhD, Vanderbilt University, Nashville, TN

11:55 AM – 12:15 PM  Extended High Frequency Amplification through 10 kHz Improves Speech Understanding (Pod.IV.H.)
Laura Street, AuD, Earlens Corporation, Menlo Park, CA

PODIUM SESSION V: HEARING LOSS AND DIAGNOSTIC AUDIOLOGY  KIVA
Moderator: Carmen Brewer, PhD

9:15 AM – 9:35 AM  Lowest Acceptable Performance Level and Noise Tolerance Profile (Pod.V.A.)
Arthur Boothroyd, PhD, San Diego State University, San Diego, CA

9:35 AM – 9:55 AM  Menopause and Postmenopausal Hormone Therapy and Risk of Hearing Loss (Pod.V.B.)
Sharon Curhan, MD, Channing Laboratory, Boston, MA

9:55 AM – 10:15 AM  Hearing Loss and Incident Injuries Requiring Health Care (Pod.V.C.)
Paul Mick, MD, University Of British Columbia, Kelowna, Canada

10:15 AM – 10:35 AM  A New Outcome Measure to Assess Social Participation in Adults (Pod.V.D.)
Melanie Ferguson, PhD, NIHR Nottingham Hearing Biomedical Research Unit, Nottingham, United Kingdom

10:35 AM – 10:55 AM  REFRESHMENT BREAK

10:55 AM – 11:15 AM  Measuring Auditory Thresholds with Frequency-Limited Environmental Sounds and Spondee Words (Pod.V.E.)
Sarah Poissant, PhD, University Of Massachusetts Amherst, Amherst, MA
SATURDAY, MARCH 4, 2017

11:15 AM – 11:35 AM Wideband Acoustic Immittance: Effects of Measurement Equipment, Age, Gender, and Ear-Canal Area (Pod.V.F.)
Susan Voss, PhD, Smith College, Northampton, MA

11:35 AM – 11:55 AM Using AudGenDB to Describe Middle-Ear Function in Normal and Down Syndrome Pediatric Patients (Pod.V.G.)
E. Bryan Crenshaw, III, PhD, The Children’s Hospital Of Philadelphia, Philadelphia, PA

11:55 AM – 12:15 PM Effects of Middle Ear Pressure Compensation on Wideband Acoustic Immittance (WAI) and Evoked Otoacoustic Emissions in a Normal-Hearing Adult Population (Pod.V.H.)
Navid Shahnaz, PhD, University Of British Columbia, Vancouver BC, Canada

PODIUM SESSION VI: AUDITORY PROCESSING AND TINNITUS  HACIENDA-PALOMA
Moderator: Jessica Sullivan, PhD

9:15 AM – 9:35 AM High Frequency Hearing Loss in Children with Learning Disorders (Pod.VI.A.)
David Moore, PhD, Cincinnati Children’s Hospital, Cincinnati, OH

9:35 AM – 9:55 AM Testing Visual Attention Capabilities in Children with Suspected Auditory Processing Disorder (Pod.VI.B.)
Nicholas Altieri, PhD, Idaho State University, Pocatello, ID

Cecilia Nakeva von Mentzer, PhD, Department Of Neuroscience/Communication Sciences Research Center, Uppsala, Sweden/Cincinnati, OH

10:15 AM – 10:35 AM Speech Recognition and Comprehension in Children with Unilateral Hearing Loss (Pod.VI.D.)
Amanda Griffin, PhD, Boston Children’s Hospital, Waltham, MA

10:35 AM – 10:55 AM REFRESHMENT BREAK

10:55 AM – 11:15 AM Assessment of Functional-Hearing Deficits in Active-Duty Service Members (Pod.VI.E.)
Ken Grant, PhD, Walter Reed National Military Medical Center, Bethesda, MD

11:15 AM – 11:35 AM Tinnitus Management: Recommendations Based on Results of Four Controlled Studies (Pod.VI.F.)
James Henry, PhD, National Center For Rehabilitative Auditory Research, Portland, OR

11:35 AM – 11:55 AM Is the Pitch Rating Method Used to Characterize Tinnitus Valid? (Pod.VI.G.)
Jennifer Lentz, PhD, Indiana University, Bloomington, IN

11:55 AM – 12:15 PM Measuring the Effect of Tinnitus on Attention and Memory (Pod.VI.H.)
LaGuinn Sherlock, AuD, Army Hearing Division/Army Public Health Center, Bethesda, MD

12:15 pm – 12:30 pm POSTER SESSION II – TAKE DOWN POSTERS

12:30 pm – 1:30 pm LUNCH OUTDOORS ON THE WEST PATIO
SATURDAY, MARCH 4, 2017

1:30 pm – 4:00 pm

**SPECIAL SESSION: PATIENT-FOCUSED EMERGING TECHNOLOGIES**  HACIENDA-PALOMA

Moderator: Harvey Abrams, PhD

Left to Their Own Devices? What the Evidence Tells Us About Self-Fitting Hearing Aids
Elizabeth Convery, MS
National Acoustic Laboratories / HEARing Cooperative Research Centre / School of Health and Rehabilitation Sciences, University of Queensland, Sydney, New South Wales, Australia

Are Our Interventions Effective in the Real World? The Ecological Momentary Assessment (EMA) Methodology
Yu-Hsiang Wu, MD, PhD
University of Iowa, Iowa City, IA

Hearing Systems in a Connected World
Gurjit Singh, PhD
Phonak AG, Toronto, Ontario

Improving Perception of Music in Hearing Aids: Technological and Behavioral Considerations
Frank A. Russo, PhD
Ryerson University, Toronto, Ontario

4:00 pm – 4:15 pm

Summary and Adjournment  HACIENDA-PALOMA
MAXIMIZING THE BIMODAL FITTING: BENEFITS AND HEARING AID FITTING STRATEGIES FOR BIMODAL PATIENTS

Neil Wright, AuD, GN ReSound

With the expansion of cochlear implant candidacy, more patients with severe-to-profound hearing loss are able to pursue cochlear implantation. This has led to more cochlear implant users with residual, useable hearing in the contralateral ear. For these patients, continued use of hearing aid technology in the contralateral ear can provide distinct benefit over utilization of the cochlear implant alone. For most patients, bimodal stimulation offers benefits of both binaural and bimodal stimulation. Specifically, research has shown that bimodal users perform better in speech-in-noise environments, have better localization skills, and have greater music appreciation when compared to unilateral cochlear implant stimulation alone. To maximize these benefits, certain steps must be taken while fitting the hearing aid for the bimodal patient. This is critical for hearing aid audiologists, as the hearing aid may need to be reprogrammed post-implantation to ensure optimal benefit. Often times, cochlear implant patients continue with their previous hearing aid audiologist for programming for reasons such as familiarity, specialty, and geographical location, highlighting the need for hearing aid audiologists to stay up-to-date on the latest programming recommendations for bimodal patients.

In addition to hearing aid programming, utilization of Assistive Listening Devices (ALDs) that transmit bimodally can significantly improve patient performance in the most difficult listening scenarios. In this talk, we will discuss the benefits of bimodal stimulation, highlight specific programming strategies for bimodal optimization, and describe the benefits of ALD use in difficult listening situations for bimodal patients.

HOW TO MAKE DOMES MORE COMFORTABLE

Aart Z. van Halteren, Sonion Nederland B.V.

Hearing aids are worn all day, every day, so strict requirements for comfort are critical. In instruments that require a dome, comfort plays a major role. Sonion formed several hypothesis for possible discomfort created by domes and developed test methods to understand what needs to be improved. Results from Sonion’s research helped to generate and establish design rules. Shown are, possible design options with different tradeoffs associated with them. One design appears to be a clear winner!
GOING BEYOND
Francis Kuk, PhD, Widex
Widex recently introduces the BEYOND hearing aid. Built on the Effortless Hearing design rationale that was started in the UNIQUE, the BEYOND includes all the desirable features of the UNIQUE and more. A notable feature is the 2.4 GHz made-for-iphone (MFi) feature that allows direct streaming between the smartphone and the BEYOND hearing aids. In-house study on this feature using a MUSHRA procedure demonstrated highest sound quality rating when compared to other MFi hearing aids on the market, but at the lowest current drain of under 2 mA during active transmission. The results of this study, along with the results of other studies conducted on the BEYOND features will be reported during this presentation.

IMPROVING EHDI WITH THE HEARLAB: CLINICAL ASSESSMENT OF THE CORTICAL AUDITORY EVOKED POTENTIAL IN INFANTS AND CHILDREN WITH HEARING LOSS
Elizabeth Musgrave, AuD, Hearts for Hearing on behalf of Frye Electronics, Inc.
Cortical auditory evoked potential (CAEP) measurements may be used to determine whether an acoustic signal elicits an electrical response in the auditory cortex. CAEP assessment is particularly attractive for use with infants and young children who have hearing loss and cannot provide verbal report about whether they can hear test signals or speech and environmental sounds. For several technical reasons, early-latency auditory evoked potentials, such as the auditory brainstem response (ABR), are unsuitable for aided assessment of children with digital hearing aids. Additionally, the ABR is not a good predictor of audibility for children with auditory neuropathy spectrum disorder (ANSD). Several research studies have shown the CAEP to be an efficient and effective measure of aided audibility in infants and young children using modern hearing aids. Research has also shown the CAEP to be a valuable measure in the assessment of auditory function as well as in the determination of appropriate management of children with ANSD. Until recently, CAEP measurement has largely only been completed in research laboratories, because clinical auditory evoked potential instruments have not been equipped to allow for simple and efficient assessment of the CAEP. Recently, the National Acoustics Laboratories of Australia (NAL) and Frye Electronics have collaborated to develop the HearLab, an affordable clinical instrument that allows for the efficient, automated evaluation of the CAEP. The HearLab allows for presentation of calibrated speech sounds (/m/, /g/, /t/, and /s/) via insert earphone, bone conduction transducer, or a soundfield loudspeaker. HearLab software completes an automated statistical analysis of the patient’s CAEP to objectively determine whether an unaided or aided response is present. Research has shown that the HearLab may be used to successfully record the CAEP in infants and young children with hearing aids and cochlear implants. In this presentation, we will provide an overview of the HearLab system. We will also provide a brief review of research examining the use of the CAEP for the management of infants and children with hearing loss. Finally, we will summarize the HearLab CAEP assessments completed with over 30 infants and young children at Hearts for Hearing, a pediatric audiology clinic in Oklahoma City. Finally, the clinical value of HearLab will be highlighted with the presentation of several interesting case studies (e.g., children with ANSD, children being considered for cochlear implants, children of suspected cortical lesions, etc.).

PROVEN BENEFITS OF THE SYNERGY PLATFORM
Elizabeth Galster, AuD, Starkey Hearing Technologies
In parallel to the development of Starkey’s Synergy technology platform, we have pursued a range of clinical research in order to evidence a broad range of patient benefits. The Muse and Halo 2 product lines each feature this platform and the upgraded Acuity OS 2 with Acuity Voice, a noise management system that takes advantage of this hardware to characterize and react to noisy conditions more quickly than previously possible. Through a number of studies, Starkey has demonstrated significant reductions in effortful listening and remarkable preference for this adaptive system. The Halo 2 product line offers connectivity to smartphones and tablets, giving patients the opportunity to stream audio and control hearing aid settings in any listening environment. Through qualitative investigation, we have learned that these smartphone-connected hearing aids are changing the audiologist-patient relationship, motivating younger patients to pursue hearing aids, and decreasing the stigmatizing perception of hearing aids.

THE BUSINESS CASE FOR TELE-DIAGNOSTICS / AEGIS TECHNOLOGY PLATFORM FOR HOME HEARING AID ADJUSTMENTS AND COUNSELING
Dave Davis, RemotEAR
I’ve made several presentations over the last few years on tele-diagnostics, offering information and sharing knowledge gained. This talk will focus on two items a brief discussion of the business case for tele-diagnostics, and a new project called Aegis. Aegis is a platform technology for enabling home-based patients to interact with hearing care professionals, and makes possible significant hearing aid adjustments and counseling for the patient. The technology is being designed to be hardware independent, open architecture, and usable by patients at any age and condition.
HOW A FASTER DSP IS CHANGING THE WAY CONSUMERS AND HEARING AID USERS VIEW THE USE OF THEIR AMPLIFICATION
Annette Mazevski, PhD, Oticon, Inc.

It is no surprise to anyone that hearing aids have provide significant benefit to those who are vested in improving their hearing and, typically as a nice side effect, quality of life. Additionally, as technology and DSP continue to improve and become more efficient, the capabilities of hearing aids become much more dynamic for the user as well as the hearing care provider. This talk will cover the recent advances Oticon has attained in their Opn product line and their Velox chip. A portion of the discussion will be dedicated to covering our recent claims related to recall, speech understanding, and listening effort. We will also discuss connectivity to other devices and, in particular, the ability to design and create useful solutions for those who want to remain technologically ‘in the loop.’ Lastly, upcoming advances in the ability to communicate across electronic devices will also be discussed.

ADVANCES IN NEWBORN HEARING SCREENING USING A SIMULTANEOUS AIR AND BONE CONDUCTION STIMULUS RAMPING TECHNIQUE
Rafael Delgado, PhD, Intelligent Hearing Systems

Improvements to newborn hearing screening using a new simultaneous air and bone conduction testing technique combined with Intensity-Ramping will be presented. The proposed device will address the need for a more sensitive hearing screening tool by stimulating at lower levels (below 35 dB nHL) compared to current single level screening devices. A multiple frequency Auditory Steady State Response (mASSR) technique was used to present and analyze both stimuli simultaneously. A presentation rate specific envelope detection filter implemented in the time domain was used to compare the responses to the background noise in order to objectively determine the threshold for each stimulus. Technical aspects and sample results from adults and newborns will be presented. The newly developed simultaneous air and bone conduction based hearing screening techniques will allow for better management of hearing loss cases and implementation of more efficient rescreening policies. The project was funded through an NIH NIDCD SBIR grant (2R44-DC011432) to Intelligent Hearing System with a subcontract to Dr. Linda Hood at Vanderbilt University.

RECHARGING THE RECHARGEABLE HEARING INSTRUMENT
Eric Branda, AuD, Sivantos, Inc.

Modern digital hearing aids offer a huge variety of form factors, features, and wireless connectivity options that allow for individual hearing solutions. However, functions like situation-based real-time processing, binaural algorithms, or streaming come with the price of increasing demands on battery performance. Traditionally, the topic of efficient powering has received only little attention. In recent years, many good reasons to use rechargeable batteries have surfaced. Lithium-based batteries as such are not really new. Primary (non-rechargeable) lithium-ion batteries have been developed since the 1960s, first in military and aerospace technology, then later in medical devices and consumer electronics. Because of their ultra-low self-discharge rate, they are still used in pacemakers and watches. Altogether, lithium-ion batteries can be regarded as the technology of choice, which is used in almost all areas of professional and consumer electronics. The opportunity to utilize inductive charging and circumventing contact-based charging further enhances the usability of lithium ion batteries. Their recent introduction to hearing aid application sets a further milestone in both battery and hearing aid technology.

AUTOSENSE OS: OPTIMIZING HEARING AID PERFORMANCE AT THE SPEED OF LIFE
Lori Rakita, AuD, Phonak

AutoSense OS is the latest generation of the Phonak automatic classification system. In addition to faster processing than previous Phonak automatic steering systems, AutoSense OS is increasingly advanced in its ability to quickly detect the acoustic environment in real-time, and seamlessly adjust nuanced algorithms in the hearing aid, accordingly. The efficacy of this technology will be demonstrated through the results of two recent studies completed at the Phonak Audiology Research Center. These studies exemplify a unique method of evaluating hearing aid technology in the real world, and bring to light the impact of AutoSense OS on real-world hearing performance.
LONGITUDINAL OUTCOMES OF CHILDREN WITH MILD TO SEVERE HEARING LOSS: AUDITORY EXPERIENCE MATTERS
Mary Pat Moeller, PhD
Boys Town National Research Hospital, Omaha, NE

Early and consistent access to auditory-linguistic input is regarded as important, if not essential, for children’s spoken language development. Children who are hard of hearing (CHH), even when early-identified, may experience limitations in their access to and perception of linguistic input. Our research team hypothesized that this inconsistent access to input leads to an overall reduction in children’s auditory-linguistic experience, which has developmental consequences. This hypothesis has been explored in a multi-site longitudinal study of the outcomes of 317 CHH compared to 117 children with normal hearing in an effort to understand influential mechanisms underlying individual differences in performance. Longitudinal results suggest that language learning is vulnerable when there are constraints on the availability of auditory-linguistic cues. Gain in audibility provided by hearing aids reduces this vulnerability. This presentation will describe longitudinal results from the Outcomes of Children with Hearing Loss study, with emphasis on three major factors found to influence children’s auditory-linguistic access and outcomes: 1) audibility of speech with hearing aids, 2) consistency and duration of hearing aid use, and 3) characteristics of caregivers’ language input. Risk and protective factors that influence a range of developmental outcomes in children who are hard of hearing will be described.

PEDIATRIC BALANCE DISORDERS: WHERE WE’VE BEEN & WHERE WE ARE GOING
Devin L. McCaslin, PhD
Mayo Clinic, Rochester, MN

Vestibular disorders in children are increasingly being recognized as an important health issue in this patient population. When a child incurs a loss of vestibular function, it is now understood there can be significant long-term consequences on everyday activities. This presentation will begin with a review of the relevant aspects of maturation of the balance system as well as cover the developmental mechanisms behind vestibular reflexes and the effects of impairment on key developmental milestones. Next, the research findings from the presenter’s laboratory to identify children with vestibular impairments will be discussed. This will include how to identify key elements in the patient-caregiver history that are red flags for vestibular impairment using a new self-report measure known as the Vanderbilt pediatric dizziness handicap inventory. Additionally, the presentation will review adaptations that can be made to vestibular testing to successfully evaluate children, pediatric normative data for quantitative vestibular function tests, and the spectrum of disease found in those children with vestibular and/or balance deficits. Finally, a clinical care pathway for dizzy children, as well as illustrative patient cases drawn from the presenter’s clinic, will be discussed.

COMPUTATIONAL MODELS OF HEARING AND AUDITORY PROCESSING
Richard F. Lyon, Principal Scientist
Google, Inc., Mountain View, CA

Computational models of hearing allow machines to hear in much the same way humans do, by analyzing sound waves through an analog of the cochlea, and using the resulting auditory representation as input to brain-like learning and listening subsystems. A model such as our CARFAC (cascade of asymmetric resonators with fast-acting compression) can serve both as a front-end sound analyzer for machine hearing as well as a testable explanatory model of the human cochlea. Variations can even model impaired hearing, for pre-testing proposed correction strategies. Large-scale applications of such models include automatic speech recognition, audio event recognition, sound scene classification, copyrighted content identification, indexing and retrieval of music and other sounds, music recommendation systems, and more. Decades of research in computational hearing models are now yielding a wealth of commercial applications at many companies.
LEFT TO THEIR OWN DEVICES?  WHAT THE EVIDENCE TELLS US ABOUT SELF-FITTING HEARING AIDS

Elizabeth Convery,1,2,3 and Gitte Keidser1,2,3

(presented by Elizabeth Convery, MS)

1 National Acoustic Laboratories, Sydney, Australia
2 HEOng Cooperative Research Centre, Melbourne, Australia
3 School of Health and Rehabilitation Sciences, University of Queensland, St. Lucia, Australia

Sales of direct-to-consumer hearing health care products in the United States are on the rise. Due in part to changing legislation and consumer demand for more accessible and affordable hearing health care, a growing range of alternative devices are available online and via mail-order, including those that can be fully self-fitted by the user at home with no direct professional input. While self-fitting hearing aids have the potential to provide a flexible, self-directed rehabilitation option for adults with a hearing impairment, there is still much to learn about this controversial new technology.

Drawing on the self-fitting hearing aid evidence base that has been built at the National Acoustic Laboratories over the past six years, this presentation will explore issues relating to physical design and the user interface, features and usability considerations for automatic in situ audiometry, factors that influence candidacy, the provision of clinical support, and fitting outcomes. These findings will be used to suggest improvements to the way self-fitting hearing aids are currently provided in the online marketplace, to discuss reasons why introducing self-fitting hearing aids into audiological practice could be desirable, and to describe modifications to the traditional clinical pathway that would enable this to occur.

ARE OUR INTERVENTIONS EFFECTIVE IN THE REAL WORLD?  THE ECOLOGICAL MOMENTARY ASSESSMENT (EMA) METHODOLOGY

Yu-Hsiang Wu, MD, PhD

University of Iowa, Iowa City, IA

Retrospective self-reports, such as questionnaires and interview, have been widely used in clinical and research settings to gain an insight of an individual’s communication functions in the real world. These measures, however, are subject to recall bias as they typically involve recalling and summarizing listening experiences across long periods of time. Retrospective self-report questionnaires could further suffer from poor contextual resolution if the listening context (e.g., location of speech and noise, or availability of visual cues) described in a questionnaire is not specific enough. Ecological momentary assessment (EMA), also known as experience sampling or ambulatory assessment, is a methodology involving repeated assessments/surveys to collect data describing respondents’ current or very recent (i.e., momentary) experiences and related contexts in their natural (i.e., ecological) environments. In each assessment, experiences are recorded almost immediately; as a result, EMA is considered to be less affected by recall bias. Detailed contextual information can be collected in each assessment, giving EMA high contextual resolution. In this presentation, EMA data collected using smartphones will be reported. The theory, validity, reliability, and limitations of EMA and how this methodology can be used to improve clinical practice and research in hearing healthcare will be discussed.
Traditional paper-and-pencil hearing-aid outcome measures rely on a listener's memory because they typically ask respondents to recall multiple instances of their hearing experiences over an extended period of days, weeks, or even months. However, technological developments have enabled the possibility to more easily examine experiences of hearing as they unfold thus reducing retrospective contamination. The overarching purpose of this research is to understand whether a system designed to obtain momentary assessments of hearing experiences is capable of facilitating valid and reliable evaluations of a listener's experiences and possibly provide new insights into the experiences of listeners. This presentation will focus on two studies. The purpose of Study 1 was to investigate the correspondence between subjective ratings of listening experiences and changes to the acoustical conditions in which those ratings were completed. Study 1 was conducted in a laboratory setting with 18 participants with hearing loss (at least 6 months of hearing aid experience, moderate to moderately-severe bilateral SNHL, age 18 years or older) who completed aided speech-in-noise testing in a variety of acoustical conditions as well as subjective measures of their listening experiences. It was observed that subjective ratings change in a predictable fashion with objective manipulations of the acoustical conditions. The purpose of Study 2 was to investigate the relationship between momentary and global assessments of hearing aid experience and benefit. Study 2 was conducted in a field setting with 14 participants with hearing loss (at least 6 months of hearing aid experience, moderate to moderately-severe SNHL, age 18 years or older). Participants completed multiple momentary ratings (i.e., within a 30-minute window of an auditory event) and a single global rating (i.e., at the conclusion of a period of weeks) of listening experiences in everyday life. Furthermore, questionnaires in the field were collected under acoustic conditions similar to those from Study 1. Results from Study 2 and implications for hearing aid outcomes research will be discussed.

Modern hearing aids are able to restore some but not all aspects of music perception in hearing impaired listeners. In addition to the technical challenges involved with handling high sound levels, preserving loudness contours, and the various distortions that may be introduced by digital signal processing, there are often changes to the central auditory system following a period of untreated hearing loss that further complicate matters. I will draw a conceptual distinction between music intelligibility and music enjoyment, while also considering the relation of these concepts to music emotion. I will go on to consider the available evidence regarding compression strategies for music and whether it is beneficial to adopt unique strategies for different genres of music. Finally, I will review evidence regarding the benefits of music training for central auditory processing in older adults with age-related hearing loss.
The discovery of cochlear synaptopathy, also known as "hidden hearing loss”, in mice challenged previous assumptions about noise-induced hearing loss. Outer hair cells had long been considered the element of the auditory system most vulnerable to noise exposure. Meanwhile, the relatively silent loss of the synapses between the inner hair cells and the auditory nerve went quietly unnoticed in the absence of any permanent threshold shift. As I transitioned from student to clinician to investigator and from basic science to clinical research, there were many times when I was similarly so focused on one career path, I failed to be open to other possibilities. In this presentation, I will give an overview of my current research on hidden hearing loss in Veterans as well as discuss the journey that brought me here, including the assumptions I made and what I learned along the way.
Patricia G. Stelmachowicz earned her BA and MS degrees from Colorado State University, following which she began her career as a clinical audiologist at the University of Nebraska Medical Center in 1972. She moved from there to the Nova Scotia Speech & Hearing Center, where she worked during a rubella epidemic and discovered how little was known about hearing loss in children. The need for careful research was obvious, which motivated her to enter the doctoral program at the University of Iowa. Her goal was to develop translational-research skills that would lead to evidenced-based procedures for assessing hearing in young children and for fitting hearing aids when hearing loss was identified.

After earning her PhD, she worked for one year at Louisiana State University Medical School then took the position of Director of Audiology & Vestibular services at Boys Town National Research Hospital. There, she supervised a large clinical service while conducting clinical and translational research. Her research program has been funded by the NIH for many years. She also served as a permanent member of the CDRC and the AUD Study Sections of the NIH. In the course of her career, she has published over 80 papers in the refereed, archival literature. She is a Fellow of ASHA and ASA, and has been awarded the Honors of the Association by ASHA. She retired in 2013 after 41 years in the profession, having created a synergistic model in which clinical activities and translational research flourish.

Many individuals have had a profound influence on Dr. Stelmachowicz's career. Her dissertation adviser, Paul Abbas, and many of her Boys Town National Research Hospital colleagues, including: Walt Jesteadt, Mary Pat Moeller, Ryan McCreery, Dawna Lewis, Kathy Beauchaine, Leisha Eiten and the many other clinical audiologists with whom she worked have all contributed to her academic and clinical success. Other colleagues who influenced her work include Richard Seewald, Arthur Boothroyd, Fred Bess, and Judy Gravel.

She has conducted translational research on high-frequency testing, the importance of audibility (especially in children with hearing loss), the need for access to high-frequency information, especially when children are developing speech and language, and the impact of advanced signal-processing strategies on speech perception in children, including frequency lowering and digital noise reduction algorithms. The discoveries she made have advanced our understanding of the consequences of hearing loss in children and have had a direct impact on the technologies that are used to serve these children. This achievement has been particularly gratifying because it provides evidence that high-quality translational research can have a profound impact on the services provided to children with hearing loss. Pat's influence on the field was further evident from her contributions to the longitudinal, multi-center Outcomes of Children with Hearing Loss study, where she provided expertise in the audiological variables that were likely to influence developmental outcomes in children with hearing loss. The most personally rewarding moments of Dr. Stelmachowicz's professional career have come from seeing postdoctoral fellows, clinicians and students she has mentored become internationally recognized as master clinicians and research scholars in their own right.

Dr. Stelmachowicz is the mother of three wonderful, intelligent, kind and independent children. All three of her children have been a great source of satisfaction for her. She considers her impact in their lives to be her most significant personal accomplishment. Stelmachowicz is grateful for the love and support of her family, including husband, Michael Gorga, son, Chris, twin daughters, Katie and Ally, and son-in-law, Patrick Olson.
ALL POSTER ABSTRACTS ARE AVAILABLE ON THE AAS WEBSITE: WWW.AMAUDITORYSOC.ORG

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AMPLIFICATION

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Comparing Objective and Subjective Outcomes of Two Frequency-Lowering Algorithms
Bethany Rose, MS; Matthew Bakke, Gallaudet University, Washington, DC

Poster # 2 – AMP02 Mentored Student Research Poster Award
Influence of Hearing Aid Compression Ratio on Horizontal Localization
Steven Taddei, BA, Burbank, IL
King Chung, PhD; Matt Wilson, PhD; Diane Schecklong, AuD, Dekalb, IL

Poster # 3 – AMP03 Mentored Student Research Poster Award
Using Perceptual Weights to Investigate Loudness Acclimatization in Hearing-Aid Patients
Katie Thrailkill, BS, University Of Nebraska-Lincoln, Lincoln, NE
Marc Brennan, PhD; Walt Jesteat, PhD, Boys Town National Research Hospital, Omaha, NE

Poster # 4 – AMP04 T35 Research Trainee Poster
Home Use of Remote Microphones: Impact on Child-Directed Speech
Emily Thompson, BA; Carlos Bentez-Barrera, MA; Gina Angle, AuD; Anne Marie Tharpe, PhD, Vanderbilt University School Of Medicine, Nashville, TN

Poster # 5 – AMP05 Development of an Open Source Hearing Aid Platform
William Audette, MS; Odile Clavier, PhD, Creare, Hanover, NH
Daniel Rasetshwane, PhD; Stephen Neely, PhD; Ryan McCreery, PhD; Marc Brennan, PhD, Boys Town National Research Hospital, Omaha, NE
Joshua Alexander, PhD, Purdue University, West Lafayette, IN

Poster # 6 – AMP06 Hypersound Audio System Transmission Characteristics in an Anechoic Chamber
Shaum Bhagat, PhD; Anusha Yellamsetty, MS, University Of Memphis, Memphis, TN
Brian Taylor, AuD, Turtle Beach Corporation, San Diego, CA

Poster # 7 – AMP07 Comparison of Hearing Aids and PSAPs in Ecologically Relevant Situations
Lisa Brody, BA; Yu-hsiang Wu, PhD; Elizabeth Stangl, AuD, University Of Iowa, Iowa City, IA

Poster # 8 – AMP08 Integrated Directionality and Noise Reduction: Effects on Children's Masked Thresholds
Jenna Browning, AuD; Mary Flaherty, PhD; Lori Leibold, PhD, Boys Town National Research Hospital, Omaha, NE
Emily Buss, PhD, The University Of North Carolina At Chapel Hill, Department Of Otolaryngology/Head, Chapel Hill, NC

Poster # 9 – AMP09 Predictors of Patient Preference of Hearing Aid Settings While Streaming
Courtney Coburn, AuD; Kevin Seitz, AuD, Starkey Hearing Technologies, Eden Prairie, MN

Poster # 10 – AMP10
Are Hearing Aids and Alternative Devices Effective? Two Systematic Reviews
Melanie Ferguson, PhD; David Maidment, PhD; Padraig Kitterick, PhD; Derek Hoare, PhD, NIHR Nottingham Hearing Biomedical Research Unit, Nottingham, NA

Poster # 11 – AMP11
Open Speech Platform Tools: A Realtime Master Hearing Aid software
Harinath Garudadri, PhD; Chinghua Lee, MS; Swaroop Gadiyaram, MS; Justyn Bell; Bhaskar Rao, PhD, UC San Diego, San Diego, CA
Arthur Boothroyd, PhD, San Diego State University, San Diego, CA

Poster # 12 – AMP12
Effects of the Noise Reduction of Hearing Aids on cABR
Yoon Sang Ji, PhD; Heesung Park, AuD; Hyun Jee Jung, Hearing research laboratory, Samsung medical Center, Seoul, Korea
Il Joon Moon, MD; Yang-Sun Cho, MD, Department Of Otorhinolaryngology-Head & Neck Surgery, School Of Medicine, Sungkyunkwan University, Samsung Medical Center, Seoul, Korea
Sung Hwa Hong, MD, Department of otorhinolaryngology-Head & Neck Surgery, School of Medicine, Sungkyunkwan University, Samsung Changwon Hospital, Changwon

ANATOMY AND PHYSIOLOGY

Poster # 13 – ANAT01 T35 Research Trainee Poster
Time Course of Macrophage numbers in the Developing Mouse Cochlea
Ashley Hinton, BA, University Of South Florida And Washington University School Of Medicine, Tampa, FL
Tejbeer Kaur, PhD; Mark Warchol, PhD, Washington University School Of Medicine, St. Louis, MO

Poster # 14 – ANAT02 T35 Research Trainee Poster
Spatial Release of Masking in Macaques and its Neuronal Correlates
Maureen Virts, BA; Ramnarayan Ramachandran, PhD, Vanderbilt University School Of Medicine, Nashville, TN

AUDIOLOGY / OTOLOGY

Poster # 15 – AO01 Mentored Student Research Poster Award
Ipsilateral and Contralateral Wideband Acoustic Reflex Thresholds in Adults
Rebecca Burdine, BA; Xiao-ming Sun, PhD, Wichita State University, Wichita, KS

Poster # 16 – AO02 Mentored Student Research Poster Award
Reliability of the Home Hearing Test: Implications for Public Health
Lauren Langley, BA; Cornetta Mosley; Kelly Tremblay, PhD, Department Of Speech And Hearing Sciences, University Of Washington, Seattle, Seattle, WA
Kathleen Pichora-Fuller, PhD, Department of Psychology, University of Toronto, ON, Canada
Adrian Davis, PhD, University College London, AD Cave Solutions Catherine McMahon, PhD, Department of Linguistics, Macquarie University, Sydney, New South Wales, Australia
Poster # 17 – AO03 Mentored Student Research Poster Award
Clinical Procedures to Identify Hidden Hearing Loss in Humans
Mackenzie Phillips, BA; Michelle Manning; Jason Sanchez, PhD,
Northwestern University, Evanston, IL

Poster # 18 – AO04 T35 Research Trainee Poster
Web-based Audiometric Threshold Estimation
Rebecca Howard, BA; Nikki Metzger; Jeffery Lichtenhan, PhD; Xinyu Song, MS; Braham Snyder; Kiron Sukesan, MS; James DiLorenzo, MS; Dennis Barbour, PhD, Washington University School Of Medicine, Saint Louis, MO

Poster # 19 – AO05 T35 Research Trainee Poster
Using Thresholds in Noise to Identify Hidden Hearing Loss in Humans
Courtney Ridley, BS, Department Of Speech, Language And Hearing Sciences, University Of Florida, Gainesville, FL
Judy Kopun, MA; Stephen Neely; Michael Gorga, PhD; Daniel Rasethswane, PhD, Boys Town National Research Hospital, Omaha, NE

Poster # 20 – AO06
Detection of Atypical Differences in Wideband Tympanometry
Gregory Flamme, PhD; Hannah Mork; Stephen Tasko, PhD; Kristy Deiters, AuD, Western Michigan University, Kalamazoo, MI

Poster # 21 – AO07
Kindergarten Children’s Working Memory is Differentially Sensitive to Acoustic Competitors
Tina M. Grieco-Calub, PhD; Maya-simone Collins; Hillary E. Snyder; Kristina M. Ward, Northwestern University, Evanston, IL

Poster # 22 – AO08
Ear Asymmetries in Clinically Normal-Hearing Individuals
Danielle Hojnicki, Northwestern University, Evanston, IL, Evanston, IL
Samantha Stiepan, AuD, Knowles Hearing Center, Northwestern University, Evanston, IL
Jonathan Siegel, PhD; Sumitrajit Dhar, PhD, Knowles Hearing Center, Roxelyn & Richard Pepper Dept. of Comm. Sci. & Dis, Northwestern University, Evanston, IL

AUDITORY PROCESSING

Poster # 23 – AP01
Effects of Blast Exposure on Sensory Gating and Auditory Processing
Mary E. Duncan, BA, University Of Louisville, Louisville, KY
Frederick J. Gallun, PhD; Robert L. Folmer, PhD, National Center for Rehabilitative Auditory Research (NCRAR), VA Portland Health Care System, Portland, OR; Department of Otolaryngology/Head & Neck Surgery, Oregon Health & Science University, Portland, OR
Melissa Papesh, PhD, National Center for Rehabilitative Auditory Research (NCRAR), VA Portland Health Care System, Portland, OR

Poster # 24 – AP02
Variations in the Duration Pattern Test
Alyssa Everett, BS; Nicole Denny; Frank Musiek, PhD, University Of Arizona, Tucson, AZ

Poster # 25 – AP03
Diagnostic Accuracy of the GIN Test for Neuro-Auditory Lesions
Renata Filippini, PhD, University Of Sao Paulo, Sao Paulo, Brazil
Bryan Wong; Frank Musiek, PhD, University Of Arizona, Tucson, AZ

Poster # 26 – AP04
An Epidemiologic Study of Free Recall Dichotic Digits Test Performance
Mary Fischer, PhD; Karen Cruickshanks, PhD; David Nondahl, MS; Carla Schubert, MS; Barbara Klein, MD; Ronald Klein, MD; Ted Tweed, MS, University Of Wisconsin - Madison, Madison, WI

Poster # 27 – AP05
Perception of Backward Speech
Robert Margolis, PhD; George Saly, Audiology Incorporated, Arden Hill, MN
Erica Williams, PhD; Angela Huang, BA; Sara Jensen; Ingrid McBride, PhD; Aparna Rao, Arizona State University, Tempe, AZ
Richard Wilson, PhD, U.S. Office of Veterans Affairs, Phoenix, AZ

COCHLEAR IMPLANTS

Poster # 28 – CI01 Mentored Student Research Poster Award
Effect of Signal Processing Strategy on Speech and Auditory Perception
Susan Reynolds, BS; Rene Gifford, PhD, Vanderbilt University, Nashville, TN

Poster # 29 – CI02 Mentored Student Research Poster Award
Voice Emotion Production by Children with Cochlear Implants
Jenni Sis, BS; Sara Damm; Monita Chatterjee, PhD, Boys Town National Research Hospital, Omaha, NE

Poster # 30 – CI03 Mentored Student Research Poster Award
Inter-rater Reliability of the Cochlear Implant Skills Review (CISR)
Alexandra Snyder, BS; Matthew Bakke, PhD; Claire Bernstein, PhD, Gallaudet University, Washington, DC

Poster # 31 – CI04 T35 Research Trainee Poster
Number of Electrodes Needed for Optimal Speech and Auditory Perception
Katelyn Berg, BA, Department Of Hearing And Speech Sciences, Vanderbilt University Medical Center, Nashville, TN
Jack Noble, PhD, Department Of Hearing And Speech Sciences, Vanderbilt University Medical Center; Department Of Electrical Engineering, Vanderbilt University; Department Of Otolaryngology, Vanderbilt University Medical Center, Nashville, TN
Benoit Dawant, PhD; Robert Labadie, MD, Department of Electrical Engineering, Vanderbilt University; Department of Otolaryngology, Vanderbilt University Medical Center, Nashville, TN
Rene Gifford, PhD, Department of Hearing and Speech Sciences, Vanderbilt University Medical Center; Department of Otolaryngology, Vanderbilt University Medical Center, Nashville, TN

Poster # 32 – CI05 T35 Research Trainee Poster
Evaluation of Automatic Directional Processing with Cochlear Implant Recipients
Soo Jang, BS; Lisa Potts, PhD, Washington University School Of Medicine, Saint Louis, MO

Poster # 33 – CI06 T35 Research Trainee Poster
Objective Measures: Implanted Children With and Without Cochlear Nerve Deficiency
Bahar S. Shahsavaran, MA; Katherine Gill, BS; Tyler C. Mcfayden; Shuman He, PhD, Boys Town National Research Hospital, Omaha, NE
Poster # 34 – CI07 T35 Research Trainee Poster
Effect of Polarity on Spread of Excitation in Cochlear Implants
Emily Spitzer, BS, University Of North Carolina Chapel Hill, Chapel Hill, NC
Michelle Hughes, PhD, Boys Town National Research Hospital, Omaha, NE

Poster # 35 – CI08
Cochlear Implant Depth of Insertion and Temporal Fine Structure Cues
Weston Adkins, MA; Douglas Sladen, PhD; MatthewCarlson, MD, Mayo Clinic, Rochester, Rochester, MN

Poster # 36 – CI09
Consideration of Age at Implantation on Cochlear Implant Programming
Meredith Anderson, AuD; Margaret Dillon, AuD, University Of North Carolina At Chapel Hill, Chapel Hill, NC

Poster # 37 – CI10
Using the Acoustic Signal to Time-lock Bilateral Cochlear Implants
Justin Aronoff, PhD; Hannah Staisloff, BA; Daniel Lee, University Of Illinois At Urbana-Champaign, Champaign, IL
AnnTodd, PhD; David Landsberger, PhD, New York University School Of Medicine, NY

Poster # 38 – CI11
Memory Strategies in Adults with Cochlear Implants
Lauren Boyles, BA; Irina Castellanos, PhD; Aaron Moberly, MD, The Ohio State University, Columbus, OH

Poster # 39 – CI12
Exploring Individual Differences in Spectrally Reduced Cochlear-Implant Hearing
Naomi Croghan, PhD; Sara Duran, PhD; Zachary Smith, PhD, Cochlear Ltd., Centennial, CO

Poster # 40 – CI13
Fine Structure Processing and Spatial Hearing with Bilateral Cochlear Implants
Timothy Davis, AuD; Rene Gifford, PhD, Vanderbilt University, Nashville, TN

Poster # 41 – CI14
Effectiveness of Signal Enhancement Technologies in Pediatric Cochlear Implant Recipients
Michael Dorman, PhD; Sarah Natale, MS, Arizona State University, Tempe, AZ

ELECTROPHYSIOLOGY

Poster # 42 – EP01 Mentored Student Research Poster Award
Release from Masking Measured Through Speech Evoked Cortical Potentials
Sarah Faucette, BS, East Carolina University, Milwaukee, OR
Andrew Stuart, PhD, East Carolina University, Greenville, NC

Poster # 43 – EP02 Mentored Student Research Poster Award
Toneburst and Frequency-Specific Chirp ABRs in Adults with SNHL
Jordan Racca, BA, Department of Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN; School of Behavioral and Brain Sciences, University Of Texas At Dallas, Dallas, TX
Carol Pang, AuD, Center For Early Intervention On Deafness, Berkeley, CA
Linda Hood, PhD, Department of Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN; University of Queensland

Poster # 44 – EP03 Mentored Student Research Poster Award
Are Variations in speech-In-noise Thresholds Related to Central Inhibitory Function?
Michael Smith, BA; Michael Lee, PhD; Christi Miller, PhD; Kelly Tremblay, PhD, University Of Washington, Seattle, WA
Yu-hsiang Wu, PhD; Ruth Bentler, PhD, University of Iowa, Iowa City, Iowa

Poster # 45 – EP04 T35 Research Trainee Poster
Simultaneous Air and Bone Conduction ASSRs at Multiple Frequencies
Sarah Camera, BA, University Of Connecticut, Storrs, CT
Linda J. Hood, PhD, Vanderbilt University, Nashville, TN
Rafael E. Delgado, PhD, Intelligent Hearing Systems Corp., Miami, FL

Poster # 46 – EP05
Discrimination of English /r/ and /l/: Mismatch Negativity (MMN)
Lee Jung An, PhD, Grand Valley State University, Grand Rapids, MI
Brett A. Martin, PhD, The Graduate Center Of The City University Of New York, New York, NY

Poster # 47 – EP06
Human Frequency Following Response to Vocoder Signals
Saratda Ananthakrishnan, PhD, Towson University, Towson, MD
Xin Luo, PhD, Arizona State University
Ananthanarayan Krishnan, PhD, Purdue University

Poster # 48 – EP07
Toward Clinical Application of Electrophysiologic Measures in Assessing Synaptic Integrity
Rebecca Bieber, BS, University Of Maryland, College Park, College Park, MD
Katharine Fernandez, PhD; Kelly King, PhD; Christopher Zalewski, PhD; Carmen Brewer, PhD, National Institute Of Deafness And Other Communication Disorders, Bethesda, MD

Poster # 49 – EP08
Employing the Acoustic Change Complex for Vowel Discrimination
Diane Cheek, BA; Barbara Cone, PhD, The University Of Arizona, Tucson, AZ

Poster # 50 – EP09
Envelope-Following Response Amplitude and Cochlear Traveling Wave Delay
Christopher Clinard, PhD; Nicole Jones, James Madison University, Harrisonburg, VA
HEARING DISABILITY

Poster # 51 – HD01
Auditory Function of Blast-Exposed Service Members with TBI
Melissa Kokx-Ryan, AuD; Tricia J. Kwiatkowski, MD; Jaclyn Schurman, AuD; Julie Cohen, AuD; Ashley Zaleski-King, AuD; Douglas S. Brungart, PhD, Walter Reed, Bethesda, MD
Jo Manette Nousak; Sarah E. Kruger, National Intrepid Center Of Excellence, Bethesda, MD

HEARING HEALTH

Poster # 52 – HH01
Community Training on Hearing Loss and Mental Wellbeing Increases Awareness
Laura Coco, AuD; Nicole Marrone, PhD, CCC-A, University Of Arizona Department Of Speech, Language And Hearing Sciences, Tucson, AZ
Rachel Peterson, MA, University Of Arizona Center On Aging, AZ
Floribella Redondo, BS, Arizona Community Health Workers Association, Yuma, AZ

Poster # 53 – HH02
The Effects of Self-Reported Alcohol Use on Hearing Sensitivity
Rachael Cook; Amanda Kaae; Carlee Michaelson; Mallory Eppler; Peter Torre, PhD; Mark Reed, PhD, San Diego State University, San Diego, CA

HEARING LOSS

Poster # 54 – HL01 Mentored Student Research Poster Award
Risk Factors Associated with Childhood Hearing loss: A 3-Year Review
Kelsey Dumanch, BS; Lenore Holte, PhD; Elizabeth Walker, PhD, University Of Iowa, Iowa City, IA
Tammy O’holleam, Iowa Department of Public Health, Des Moines, IA

Poster # 55 – HL02 Mentored Student Research Poster Award
Intra-Individual Differences in Working Memory for Speech in Listeners With Hearing Loss
Sam Hester, BS, East Tennessee State University, Antioch, TN
Sherri Smith, PhD, Auditory Vestibular Research Enhancement Award Program, Mountain Home Va, Mountain Home, TN
Kathy Pichora-fuller, PhD, University of Toronto, Mississauga, Ontario

Poster # 56 – HL03 Mentored Student Research Poster Award
Comparison of Methods for Evaluating Horizontal-Plane Sound Localization
Erin Nelson, BFA; Ruth Reeder, MA; Laura Holden, AuD; Jill B. Firszt, PhD, Washington University In St. Louis, School Of Medicine, Saint Louis, MO

Poster # 57 – HL04
Age Related Hearing Loss and Resilient Functional Capacities
Razan Al Fakir, PhD, Mayo Clinic Florida, Jacksonville, FL
Alice Holmes, PhD, Emeritus Professor At University Of Florida, Gainesville, FL

Poster # 58 – HL05 T35 Research Trainee Poster
Normal Hearing Thresholds in the VA
Lauren Dillard, BS, University Of Wisconsin-madison, Madison, WI
Tina Penman, AuD; Zach Hoskins, BA, National Center For Rehabilitative Auditory Research, Va Portland Health Care System, Portland, OR
Curtis Billings, PhD, National Center for Rehabilitative Auditory Research, VA Portland Health Care System & Oregon Health and Sciences University, Department of Otolaryngology, Portland, OR

Poster # 59 – HL06
Deciphering ‘Hidden Hearing loss’ Using Brain-Behavior Relationships
Saradha Ananthakrishnan, PhD; Danielle Yurjevich, Towson University, Towson, MD

Poster # 60 – HL07
Hidden Hearing Loss in College-age Musicians: Electrophysiologic Measures
Lata Krishnan, PhD; Elizabeth Marler; Erika Vannarsdall; Chandan Suresh, MS; Ananthanarayan Krishnan, PhD, Purdue University, West Lafayette, IN

Poster # 61 – HL08
Bayesian Network Approach to Estimating ‘Direct’ Hearing Loss Risk Factors
Chuan-Ming Li, PhD; Le Chen, MA; Howard Hoffman, MA, Epidemiology And Statistics Program, National Institute On Deafness And Other Communication Disorders (NIDCD), National Institutes Of Health (NIH), Bethesda, MD
Christa Themann, PhD, Hearing Loss Prevention Team, Division of Applied Research and Technology, National Institute For Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC)
Gudny Eiriksdottir, PhD; Vilmundur Gudnason, PhD, The Icelandic Heart Association, Kopavogur, Iceland
Lenore Launer, PhD, Intramural Research Program, Laboratory of Epidemiology and Population Sciences, National Institute of Aging (NIA), National Institutes of Health (NIH)
Hannes Petersen, MD, Department of Otolaryngology-Head and Neck Surgery, Landspitali-National University of Iceland, Reykjavik, Iceland

IMMITTANCE

Poster # 62 – IM01
Improving Predictions of Real-Ear-To-Coupler Differences in Children Using Immittance
Ryan McCreeey, PhD; Meredith Spratford, AuD; Marc Brennan, PhD, Boys Town National Research Hospital, Omaha, NE
Elizabeth Walker, PhD, University Of Iowa, Iowa City, IA

Poster # 63 – IM02
Publically Accessible Database for Wideband Acoustic Impittance Measures
Tinli Yarrington; Susan Voss, PhD, Smith College, Northampton, MA
Nicholas Horton, PhD, Amherst College, Amherst, MA
NOISE EXPOSURE

Poster # 64 – NE01 T35 Research Trainee Poster
Adaptation of the Dangerous Decibels Program for an Adult Audience
Jolene Sletten, BA, University Of Colorado-boulder, Denver, CO
Gabrielle Saunders, PhD; Susan Griest, National Center For Rehabilitative Auditory Research, Portland, OR

Poster # 73 – PSY04 T35 Research Trainee Poster
Effect of Level on Spectral Ripple Detection Thresholds in Adults
Erik Jorgensen, BA, University Of Iowa, Iowa City, IA
Emily Buss, PhD, University Of North Carolina
Benjamin Kirby, PhD, Illinois State University
Frederick Gallun, PhD; Michelle Molis, PhD, National Center for Rehabilitative Auditory Research
Ryan McCreery, PhD; Marc Brennan, PhD, Boys Town National Research Hospital

OTOACOUSTIC EMISSIONS

Poster # 65 – OAE01 Mentored Student Research Poster Award
The Effects of Attention and Concussion on DPOAE Suppression
Michael Mangini, PhD; Matthew Wilson, PhD, Northern Illinois University, DeKalb, IL

Poster # 66 – OAE02 Mentored Student Research Poster Award
Efferent-Induced Changes to Synchronized-Spontaneous Otoacoustic Emissions
Britney Ometz, BS; Rebecca Walston; James Lewis, PhD, University Of Tennessee Health Science Center, Knoxville, TN

Poster # 67 – OAE03
Two Birds, One Stone: Clicks Evoke Both OAEs and Efferents
Sriaram Boothalingam, PhD; Sumitrajit Dhar, PhD; Julienne Kurke, Northwestern University, Evanston, IL

Poster # 68 – OAE04
MOCR Variability Across CEoAEs and DPOAEs
Kayla Ichiba, BS; Siena Schoelen; Alireza Pourjavid, MS; Barbara Cone, PhD, University Of Arizona, Tucson, AZ

Poster # 69 – OAE05
DPOAE Components and Alcohol Use in Young Adults
Amanda Kae; Rachael Cook; Carlee Michaelson; Mallory Eppler; Mark Reed; Peter Torre, San Diego State University, San Diego, CA

PSYCHOACOUSTICS

Poster # 70 – PSY01 Mentored Student Research Poster Award
Glimpsing Envelope and Periodicity Cues: Aging Effects and Competing Talkers
William Bologna, AuD; Judy Dubno, PhD, Medical University Of South Carolina, Charleston, SC

Poster # 71 – PSY02 Mentored Student Research Poster Award
Aging and the Additivity of Masking at the Cocktail Party
Gabrielle R. Merchant, PhD; Richard F. Freyman, PhD; Karen S. Heffer, PhD, University Of Massachusetts Amherst, Amherst, MA

Poster # 72 – PSY03 T35 Research Trainee Poster
Interaural Differences: Relationships of Binaural Sensitivity to Age and Hearing Loss
Samuel Berhilsel, BS, The University Of South Florida, Tampa, FL
Meghan Stansell, National Center For Rehabilitative Auditory Research, Portland, OR
Sean Kampel, AuD; Frederick Gallun, PhD, National Center for Rehabilitative Auditory Research, Oregon Health & Science University, Portland, OR

Poster # 74 – PSY05 T35 Research Trainee Poster
Binaural Interference with Simulated Electric Acoustic Stimulation (EAS)
Chantal van Ginkel, BS, University Of Wisconsin-madison, Madison, WI
G. Christopher Stecker, PhD; Rene H. Gifford, PhD, University Of Malaya, Kuala Lumpur
Evelyn Davies-venn, PhD, University of Minnesota, MN

Poster # 75 – PSY06
An Efficient Method for Deriving Band Importance Functions for Non-English Speech Materials
Md.Shariful Alam, MS; Msa Zilany, PhD; Hua-nong Ting, PhD, University Of Malaya, Kuala Lumpur

Poster # 76 – PSY07
Inherent Envelope Fluctuations in Forward Maskers: Effects of Compression Amplification
Marc Brennan, PhD, Boys Town National Research Hospital, Omaha, NE
Adam Svec, PhD, Resound, Bloomington, MN
Peggy Nelson, PhD, University Of Minnesota Center For Applied and Translational Sensory Science, Minneapolis, MN

Poster # 77 – PSY08
Speech-On-Speech Masking: Perceptual Similarity and Observed Informational Masking
Lauren Calandruccio, PhD, Case Western Reserve University, Cleveland, OH
Emily Buss, PhD, University Of North Carolina, Chapel Hill, NC

Poster # 78 – PSY09
Top-down Control of Cochlear Mechanics - Bilingualism and Spontaneous OAEs
Sumitrajit Dhar, PhD; Tuan Lam, PhD; Viorica Marian, PhD, Northwestern University, Evanston, IL

SPEECH PERCEPTION

Poster # 79 – SP01 T35 Research Trainee Poster
Using an Auditory Attention Dual-Task Paradigm to Assess Listening Effort
Brianne Noud, BS; Chad S. Rogers, PhD; Jonathan E. Peelle, PhD, Washington University School Of Medicine, Saint Louis, MO

Poster # 80 – SP02 T35 Research Trainee Poster
Effects of Asymmetric Hearing: Localization and Speech Understanding in Noise
Rixon Rouse, BA; Nol Dwyer, AuD; Ruth Reeder, MA; Jill Firszt, PhD, Washington University School Of Medicine Adult Cochlear Implant Program, St. Louis, MO
Poster # 81 – SP03 T35 Research Trainee Poster
Virtual Reality in Localization and Speech Perception Tasks in Children
Maeve Salanger, BS, University Of Maryland, College Park, MD
Dawna Lewis, PhD; Timothy Vallier; Tessa Mcdermott; Andrew Dergan, Boys Town National Research Hospital, Omaha, NE

Poster # 82 – SP04
Noise Sensitivity is Predominantly Influenced by Frequency Selectivity
Frederic Apoux, PhD; Brittnay Carter; Eric Healy, PhD, The Ohio State University, Columbus, OH

Poster # 83 – SP05
Does Familiarity with a Talker’s Voice Improve Intelligibility in Noise
Madison Buntrock; Brittan Barker, PhD, Department Of Communication Disorders And Deaf Education, Utah State University, Logan, UT

Poster # 84 – SP06
Sequential Streaming of Speech Sounds Under Normal and Impaired Hearing
Marion David, PhD; Andrew J. Oxenham, PhD, Department Of Psychology, Minneapolis, MN
Olaf Strelcyk, PhD, Sonova U.S. Corporate Services, Warrenville, IL

Poster # 85 – SP07
Perceptual Significance of Level Increments in Stop-Consonant Noise Bursts
Blas Espinoza-Varas, PhD; Jeremiah Hilton, MS; Shaoxuan Guo, MS, Ou Health Sciences Center, Oklahoma City, OK

Poster # 86 – SP08
Linguistic Experience and Age Affect Recognition of Spanish-Accented English
Sandra Gordon-Salant, PhD; Grace Yeni-komshian, PhD; Peter Fitzgibbons, PhD; Rebecca Bieber; David Jara, MA; Maya Freund, University Of Maryland, College Park, MD

Poster # 87 – SP09
Dynamic Range Comparison Between Clear Speech and Citation-Form
In-Ki Jin, PhD; Kyungju Lee; Suyeon Shin, MS, Hallym University, Chuncheon

Poster # 88 – SP10
Contribution of Selective Attention Ability to the Speech-In-Noise Understanding Performance
Sione Kim, BA; Subong Kim, MS; Courtney Lansing, BA; Inyong Choi, PhD, Department Of Communication Sciences And Disorders, University Of Iowa, Iowa City, IA

TINNITUS
Poster # 89 – T1N01 Mentored Student Research Poster Award Prevalence of Depression and Anxiety among Community-Dwelling Adults Reporting Tinnitus
Kelly Reavis, MS; Kathleen Carlson, PhD, Ohsu-psu School Of Public Health, Portland, OR

Poster # 90 – TIN02
The Tinnitus Screener: Data from 250 Research Participants
James Henry, PhD, NCRAR, Portland, OR

Poster # 91 – TIN03
Reliability of Tinnitus Loudness Measures: Matching vs. Rating vs. Scaling
Candice Manning, PhD; Leslie Grush, AuD; Emily Thielman, MS; James Henry, PhD, National Center For Rehabilitative Auditory Research, Portland, OR

TRAINING / REHABILITATION
Poster # 92 – TR01
Development of a Hearing Loss Toolkit for Self-Management
Michelle Arnold, AuD; Victoria Sanchez, PhD; Theresa Chisolm, PhD, University Of South Florida, Tampa, FL
Nicholas Reed, AuD, Johns Hopkins University, Baltimore, MD

Poster # 93 – TR02
Remote Microphone Use in Homes of Children with Hearing Loss
Carlos Benitez, MA; Gina Angley, AuD; Anne Marie Darhe, PhD, Vanderbilt University, Nashville, TN

Poster # 94 – TR03
Towards a Personalised M-Health Hearing Programme for the Smartphone Generation
Melanie Ferguson, PhD; David Madiment, PhD, Nihr Nottingham Hearing Biomedical Research Unit, Nottingham, AK
Neil Coulson, PhD; Heather Warrrad, PhD, Nottingham University, Nottingham
Will Brassington, MS, Nottingham University Hospital’s NHS Trust

Poster # 95 – TR04
A Training Program for Scoring Korean Words for English-Speaking Audiologists
Heekyung J. Han, MS; Robert S. Schlauch, PhD, Department Of Speech-language-hearing Sciences, University Of Minnesota, Twin Cities, Minneapolis, MN

Poster # 96 – TR05
Are Auditory Training Outcomes Related to Olivocochlear Efferent Function?
Jan Mertes, PhD, University Of Illinois At Urbana-champaign, Champaign, IL
Erin Wilbanks, AuD; Marjorie Leek, PhD, Va Loma Linda Healthcare System, Loma Linda, CA

AMPLIFICATION
Poster # 97 – AMP13
Improving Clinical Outcomes for Single-Sided-Deafened Osseointegrated Device Users
Anne Harvey, BS; Jake Hillyer; Elizabeth Elkins, AuD; Jacky Tran; P. Cody Buchanan; Stacey Watson, AuD; Douglas Backous, MD; Alexandra Parbery-Clark, PhD, Swedish Medical Center / Cherry Hill, Seattle, WA
Poster # 98 – AMP14
What is the Evidence Supporting the Benefits of “Affordable” Hearing Aid Technologies?
Carole Johnson, PhD; Anna Marie Jilla, MA; Stevie Jeannont; Emily Lamp; Jin Hyung Park; James Connor Sullivan; Kristin Winkler, University Of Oklahoma Health Sciences Center, Oklahoma City, OK
Jeffrey Danhauer, PhD, University of California Santa Barbara, Goleta, CA

Poster # 99 – AMP15
Multiple Hearing Aid Programs in Modern Devices: Who Utilizes Them?
Jani Johnson, AuD, PhD, University of Memphis, Memphis, TN

Poster # 100 – AMP16
Objective Detection of Cochlear Dead Region Using TEN-ACC
Soojin Kang, MS; Heesung Park, MS; Sung Hoon Yoon, MS; Hyungji Jung, Hearing Research Laboratory, Samsung Medical Center, Seoul, Korea, Seoul, NA
Il Joon Moon, MD; Yang-sun Cho, MD, Department Of Otorhinolaryngology-head & Neck Surgery, Samsung Medical Center, Sungkyunkwan University School Of Medicine, Seoul, Korea
Jiwhan Woo, PhD, Department of Biomedical Engineering, University of Ulsan, Ulsan, Korea
Sung Hwa Hong, MD, Department of Otorhinolaryngology-Head and Neck Surgery, Samsung Changwon Hospital, Sungkyunkwan University School of Medicine, Changwon, Korea

Poster # 101 – AMP17
Comparative Analysis of Personal Amplification Products and Hearing Aids
Peggy Korczak, PhD; Nicole Polyak, MS, Towson University, Towson, MD
Frank Lin, MD; Nicholas Reed, AuD, Johns Hopkins University School of Medicine, Baltimore, MD

Poster # 102 – AMP18
Comparison of Self-Adjusted Amplification and Own Hearing-Aid Response
Alexandra Lithgow, BA; Carol Mackersie, PhD; Arthur Boothroyd, PhD, San Diego State University, San Diego, CA

Poster # 103 – AMP19
Comparison of Binaural Benefits: CROS Hearing Aids and BAHA
SunMi Ma, MS; Hyunjoo Jung; Wonho Jung, MD; Yangsun Cho, MD; SungHwa Hong, MD; IlJoon Moon, MD, Samsung Medical Center, Seoul, Korea

Poster # 104 – AMP20
Individual Differences in Temporal Envelope Processing With Amplitude Compression
Varsha Rallapalli, AuD; Joshua Alexander, PhD, Purdue University, West Lafayette, IN

Poster # 105 – AMP21
Comparing Two Hearing-Aid Noise Management Approaches in Noise (In)Tolerant Listeners
Sherri Smith, PhD; George Spanos, AuD; Jeanne Lilly, MA, Auditory Vestibular Research Enhancement Award Program, Mountain Home Va, Mountain Home, TN
Karrie Recker, AuD, Starkey Hearing Technologies, Eden Prairie, MN

Poster # 106 – AMP22
Self-Reported Listening Effort Predicts Real-World Amplification Outcomes
Elizabeth Stangl, AuD; Yu-hsiang Wu, PhD; Ruth Bentler, PhD, University Of Iowa, Iowa City, IA
Christi Miller, PhD; Kelly Tremblay, PhD, University of Washington, Seattle, WA

Poster # 107 – AMP23
Relationships Between Subjective Outcome Measures and Aided Speech Intelligibility Index
Amanda Wolfe, AuD; Eric McCabe, AuD; Ashley Hughes, AuD; Kevin Seitz, AuD, Starkey Hearing Technologies, Eden Prairie, MN

Poster # 108 – AMP24
Effects of Nonlinear Frequency Compression on the Acoustic Properties and Recognition of Speech Sounds in Mandarin Chinese
Jing Yang, PhD, University of Central Arkansas, Conway, AR
Xueqing Cheng; Yulin Li; Cuncun Ren; Beier Qi, Beijing Tongren Hospital, Beijing
Li Xu, PhD, Ohio University, Athens, OH

ANATOMY AND PHYSIOLOGY

Poster # 109 – ANAT03
Spiral Ganglion EGFR/XPA Pro-survival Signaling
O’neil Guthrie, PhD, Northern Arizona University, Flagstaff, AZ

Poster # 110 – ANAT04
Revisiting Anatomical Variability along the Sylvian Fissure: Its Impact on Central Auditory Research
Barrett St. George, BA; Andrew Demarco, MA; Frank Musiek, PhD, The University Of Arizona, Tucson, AZ

Poster # 111 – ANAT05
Modern Views on the Anatomy of Planum Temporale
Barrett St. George, BA; Andrew Demarco, MA; Frank Musiek, PhD, The University Of Arizona, Tucson, AZ

AUDIOLOGY / OTOTOLOGY

Poster # 112 – AO09
ABR Heralds the Initial Diagnosis of Neurofibromatosis Type II
Robert Ivey, PhD, Private Practice, Las Cruces, NM
Diane Cheek, BA; Frank Musiek, PhD, The University Of Arizona, Tucson, AZ

Poster # 113 – AO10
Videos to Supplement the Infant-Toddler Meaningful Auditory Integration Scale
Hannah Jones, BS; Brittan A Barker, PhD, Department Of Communication Disorders And Deaf Education, Utah State University, Logan, Ut, Logan, UT
Chelsi Gibbons Daquanno, MA, Livingston Parish School Board, LA
A Consumer Questionnaire to Assess the Risk for Ear Disease
Samantha Kleindienst, PhD, Mayo Clinic Arizona, Scottsdale, AZ
David Zapala, PhD; Larry Lundy, MD; Razan Al Fakir, PhD, Mayo Clinic Florida, Jacksonville, FL
Donald Nielsen, PhD, Don Nielsen Consulting, LLC, Dublin, OH
Sumitrajit Dhar, PhD; James Griffith, PhD; Niall Klyn, PhD, Northwestern University, Evanston, IL
Deborah Carlson, PhD, The University of Texas Medical Branch, Galveston, TX
Dania Rishiq, PhD, University of South Alabama, Mobile, AL

Evaluating Red Flag Criteria for Surveillance of Ear Diseases
Niall Klyn, PhD; Sumitrajit Dhar, PhD; James Griffith, PhD, Northwestern University, Evanston, IL
Samantha Kleindienst, PhD, Mayo Clinic Arizona, Scottsdale, AZ
Razan Al Fakir, PhD; Larry Lundy, MD, Mayo Clinic Jacksonville, FL
Donald Nielsen, PhD, Don Nielsen Consulting, LLC, Dublin, OH
Deborah Carlson, PhD, The University of Texas Medical Branch, Galveston, TX
Dania Rishiq, PhD, University of South Alabama, Mobile, AL

Auditory Access and Behavioral outcomes for Children with Hearing loss
Clairissa Mollak, BS; Elizabeth Walker, PhD, University of Iowa, Iowa City, IA
Meredith Spratford, AuD; Ryan McCreery, PhD, Boys Town National Research Hospital, Omaha, NE

Integration of Audiologic Test Results into the Electronic Health Record System
Rajarshi Pratihar, AuD; Diana K Weissbeck, AuD; Denise A Barringer, MS; Jan S Lewin, PhD, The Ut Md Anderson Cancer Center, Houston, TX

Consequences of mTBI on Central Auditory Function
Christina Roup, PhD; Julie Powell, BA, Ohio State University, Columbus, OH
Elizabeth Leigh, PhD; Lindsey Byom, PhD, William S. Middleton Va Medical Center, Madison, WI
Rocio Norman, MA, University of Wisconsin-Madison, Madison, WI

Words-in-Noise Data from PHACS Perinatally HIV-infected and HIV-exposed Young Adults
Peter Torre, PhD; Alyssa Cook, San Diego State University, San Diego, CA
Jonathan Russell; Paige Williams; Tzy-Jyun Yao, Harvard School Of Public Health, Boston, MA
Sonia Lee, National Institute of Child Health and Human Development, Bethesda, MD
Howard Hoffman, National Institute on Deafness and Other Communication Disorders, Bethesda, MD
Renee Smith, University of Illinois, Chicago, IL

Aging Alters Attentional Modulation of Spatial Processing in Auditory Cortex
Erol Ozmeral, PhD; Madeleine Berg; David Eddins, PhD; Ann Clock Eddins, PhD, University Of South Florida, Tampa, FL

Neural Representation of Temporal Cues: Aging and Spectral Degradation Effects
Lindsey Roque, BS; Samira Anderson, PhD; Matthew Goupell, PhD, University Of Maryland, College Park, College Park, MD

Preadolescent Musical Training Influences Spatial Listening and Temporal Processing Skills
Brett Schneiderman, BS; Erin Dula; Saravanan Elangovan, PhD, East Tennessee State University, Johnson City, TN

Jackson Heart Study: Central Auditory Processing Deficits and Normal Hearing
Christopher Spankovich, PhD; Lauren McNichol, AuD; Mary Frances Johnson, AuD; John Schweinfurth, MD; Charles Bishop, AuD, University Of Mississippi Medical Center, Jackson, MS

Auditory Processing Difficulties in Older Adults
Nirmal Kumar Srinivasan, PhD; Alexis Staudenmeier; Kelli Clark, BA, Towson University, Towson, MD

Auditory Temporal Processing Tests: An Indicator of CANS Pathology
Bryan Wong, BS; Frank Musiek, PhD, University Of Arizona, Tucson, AZ
Renata Filippini, PhD, University Of Sao Paulo, Sao Paulo, Brazil

Improving speech Understanding in Complex listening Environments for CI listeners
Michael Dorman, PhD; Sarah Natale, MS, Arizona State University, Tempe, AZ

Effects of Cochlear Implant Microphone Location for New Generation Processors
Robert T Dwyer, AuD; Rene H. Gifford, PhD, Vanderbilt Bill Wilkerson Center, Nashville, TN

Hearing Abilities in osseointegrated Implant Users Following Daily Experience
Elizabeth Elkins, AuD; Stacey Watson, AuD; Douglas Backous, MD; Alexandra Parbery-Clark, PhD, Swedish Medical Group, Seattle, WA
Jacky Tran; Jake Hillyer, Swedish Health Services
P. Cody Buchanan, MD, St. John Medical Center, Broken Arrow, OK
Poster # 129 – CI18
Cochlear Implant Simulations of Reduced Current Spread Improve Phoneme Identification
Kelly Jahn, AuD; Julie Bierer, PhD, University Of Washington, Seattle, WA

Poster # 130 – CI19
Correlations Between ECAP, ECoG and Speech Perception in CI Users
Jae-Ryong Kim, MD; Paul Abbas, PhD; Carolyn Brown, PhD, Department Of Communication Sciences And Disorders, University Of Iowa, Iowa City, IA
Viral Tejani, AuD, Department Of Otolaryngology-head And Neck Surgery, University Of Iowa hospital And Clinics, Iowa City, IA

Poster # 131 – CI20
Comparing Rapid and Traditional Spatial Tuning Curves in Cochlear-Implant Users
Heather Kreft, MA; Andrew Oxenham, PhD, University Of Minnesota, Minneapolis, MN
Lindsay Devries, AuD; Steven Bierer, PhD; Julie Arenberg Bierer, PhD, University Of Washington, Seattle, WA

Poster # 132 – CI21
Emotional Speech Recognition in Normal-hearing Listeners and Cochlear Implant Users
Xin Luo, PhD; Kathryn Pulling, Department Of Speech And Hearing Science, Arizona State University, Tempe, AZ

Poster # 133 – CI22
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Il Joon Moon, MD; Ji Eun Choi, MD; Won-ho Chung, MD; Chung Hwan Baek, MD; Hee Sung Park, MD; Yang-Sun Cho, MD, Department Of Otorhinolaryngology-and Neck Surgery, Samsung Medical Center, Sungkyunkwan University School Of Medicine, Seoul, Republic Of Korea
Sung Hwa Hong, MD; Jung Joo Lee, Department Of Otorhinolaryngology-and Neck Surgery, Changwon Samsung Hospital, Sungkyunkwan University School Of Medicine, Seoul, Republic Of Korea

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Spectral Separation of Speech and Noise in Cochlear Implant Users
Erin O’Neill; Heather Kreft; Andrew Oxenham, University Of Minnesota, Minneapolis, MN

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Joshua Sevier, AuD; Sangsook Choi, PhD; Michelle Hughes, PhD, Boys Town National Research Hospital, Omaha, NE

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Comparing Methods for Pairing Electrodes Across Ears with Cochlear Implants
Hannah Staisloff, BS; Daniel Lee; Justin Aronoff, PhD, University Of Illinois At Urbana Champaign, Champaign, IL

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Jennifer Torres, MA, Denver Ear Associates, Englewood, CO
Christina Runge, PhD, Medical College Of Wisconsin, Milwaukee, WI
Meredith Anderson, AuD, University Of North Carolina School Of Medicine
Michelle Blanchard, AuD, Tampa Bay Hearing and Balance
Elizabeth Camposeo, AuD, Medical University of South Carolina
Michelle Montes, AuD, The Hospital of the University of Pennsylvania

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Linda Hood, PhD; Lauren Roberts, AuD, Vanderbilt University, Nashville, TN
Rafael Delgado, PhD, Intelligent Hearing Systems, Miami, FL

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Simultaneous Air- and Bone-Conducted Intensity-Ramped ASSRs in Adults
Linda Hood, PhD; Lauren Roberts, AuD, Vanderbilt University, Nashville, TN
Rafael Delgado, PhD, Intelligent Hearing Systems, Miami, FL

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Linda Hood, Ph.D; Mary Edwards, AuD, Vanderbilt University, Nashville, TN
Beth Prieve, PhD, Syracuse University, Syracuse, NY

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Behavioral and Neural Plasticity Induced by Hearing Aid Use
Hanin Karawani, Department Of Hearing And Speech Sciences, University Of Maryland, College Park, MD
Alessandro Presacco, PhD, Department Of Otolaryngology, University Of California, Irvine, CA
Samira Anderson, PhD, Department of Hearing and Speech Sciences, Program in Neuroscience and Cognitive Science, University of Maryland, College Park, MD

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Tess Koerner, AuD; Yang Zhang, PhD; Peggy Nelson, PhD; Edward Carney, PhD, University Of Minnesota, Minneapolis, MN
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**Objective Measurement of Cognitive Systems During Effortful Listening**

David Ryan, PhD; Smith Sherri, PhD; Kim Schairer, PhD, Auditory Vestibular Research Enhancement Award Program, Mountain Home Va, Mountain Home, TN

Eric Sellers, PhD, East Tennessee State University, Johnson City, TN

Mark Eckert, PhD, Department of Otolaryngology - Head and Neck Surgery, Charleston, SC

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**Learning and Retention of Novel Words in Musicians and Non-Musicians**

Elizabeth Stewart, AuD, Arizona State University, Scottsdale, AZ

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**Induced Cortical Brain Oscillations Underlying Concurrent Speech Segregation in Noise**

Anusha Yellamsetty, PhD; Gavin Bidelman, PhD, University Of Memphis, Memphis, TN

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**Baltimore HEARS: An Affordable, Accessible, Community-Delivered Hearing Care Intervention**

Carrie Nieman, MD; Frank Lin, MD, Johns Hopkins University School Of Medicine, Dept Otolaryngology-HNS; Johns Hopkins Center On Aging & Health, Baltimore, MD

Nicole Marrone, PhD, University Of Arizona Dept Of Speech, Language, & Hearing Sciences, Tucson, AZ

Sara Mamo, AuD, University of Massachusetts, Dept of Communication Disorders, Amherst, MA

Joshua Betz, MS, Johns Hopkins Center on Aging & Health, Baltimore, MD

Laura Gittin, PhD; Hae-Ra Han, PhD; Sarah Szanton, PhD, Johns Hopkins University School of Nursing, Dept of Community Public Health, Baltimore, MD

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**Enhancing Transparency and Reproducibility of Hearing Science**

Tim Schoof, PhD, Northwestern University, Evanston, IL

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**Audiological and Genetic Database: Large Biomedical Informatics and Hearing Research**

Jeffrey Pennington; Byron Ruth; Jeffrey Miller; Joy Peterson, AuD; John Germiller, MD; Ian D. Krantz, MD, Children’s Hospital Of Philadelphia, Philadelphia, PA

Tamar Gomes, AuD; Derek Stiles, PhD; Juliana Manganella; Margaret Kenna, MD, MPH, Boston Children's Hospital, Boston, MA

Linda J. Hood, PhD, Vanderbilt Bill Wilkerson Center, Vanderbilt University, Nashville, TN

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Ann Perreau, PhD; Maeve Derrig, Augustana College, Rock Island, IL

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Gabrielle Saunders, PhD; Melissa Frederick, AuD; Shienpei Silverman, MA; Tina Penman, AuD, NCRAR, Portland, OR

Michelle Arnold, AuD; Theresa Chisolm, PhD, University of South Florida, Tampa, FL

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**Mild Gain for Normal-Hearing Adults with Difficulty in Background Noise**

Jasleen Singh, BS; Karen Doherty, PhD, Syracuse University, Syracuse, NY

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**Cochlear Dead Regions in Subjects with WFS1 Nonsyndromic Hearing Loss**

Susan Stanton, PhD; Amanda Morgan; Matthew Lucas, MS, Western University, London, ON

Anne Griffin, MS, Memorial University of Newfoundland, Grand Falls-Windsor, Newfoundland and Labrador

Ian Bruce, PhD, McMaster University, Hamilton, ON

Sarah Predham; Terry-Lynn Young, PhD, Memorial University of Newfoundland, St John’s, Newfoundland and Labrador

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**Developing a Community Health Worker Training Curriculum for Hearing Care**

Jonathan Suen; Frank Lin, Johns Hopkins University Center on Aging And Health, Baltimore, MD

Carrie Nieman, Johns Hopkins University School Of Medicine

Sara Mamo, University of Massachusetts - Amherst, Dept. of Communication Disorders

Cindy Zonies, Weinberg Place Senior Living

Jen Sullivan; Becky Slogeris; Mike Weikert, Maryland Institute College of Art Center for Social Design

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**Searching for Specificity in Cognitive Screeners: MoCA vs PNT**

Viktoriya Zakharenko, BS, University Of Minnesota - Twin Cities, Minneapolis, MN

Karin Humphreys, PhD, Mcmaster University, Hamilton, ON

Jeff Crukley, PhD, Starkey Hearing Technologies, Eden Prairie, MN

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Carlee Michaelson; Amanda Kaae; Rachael Cook; Mallory Eppler; Peter Torre III, PhD, San Diego State University, San Diego, CA

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**WAI Changes in Preterm Infants Over Time: The BabyEars Project**

Beth Prieve, PhD; Kerry Walker; Stefania Ardunni, AuD; Serena Hashem, Syracuse University, Syracuse, NY

Linda Hood, PhD, Vanderbilt University, Nashville, TN

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**TEOAE Changes Over Time in Preterm Infants: The BabyEars Project**

Beth Prieve, PhD; Kerrilyn Mcgowan; Stefania Ardunni, AuD; Serena Hashem, Syracuse University, Syracuse, NY

Linda Hood, PhD, Vanderbilt University, Nashville, TN
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Daniel Rasetshwane, PhD; Natalie Lenzen, AuD; Judy Kopun, MA; Michael Gorga, PhD; Stephen Neely, Boys Town National Research Hospital, Omaha, NE

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Psychophysical and Otoacoustic Emission-Based Tuning Estimates in Normal-Hearing Young Adults
Uzma S. Wilson, AuD; Amber Kadolph Kasten; Jenna Browning-kamins; Sriram Boothalingam, PhD; Sumitrait Dhar, PhD, Northwestern University, Evanston, IL

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A Taxonomy-Based Approach of Inferring Cochlear Compression from Otoacoustic-Emissions
Anusha Yellamsetty, PhD; Shaum Bhagat, PhD, University of Memphis, Memphis, TN

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Rachel Ellinger, BA, Northwestern University, Evanston, IL

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Eric Hoover, PhD; David Eddins, PhD, University Of South Florida, Tampa, FL

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Victoria Idowu; Evelyn Davies-venn, PhD, University Of Minnesota, Minneapolis, MN

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Kasey Jakien, BA; Sean Kampel, AuD; Samuel Gordon; Frederick Gallun, PhD, National Center For Rehabilitative Auditory Research/oregon Health & Science University, Portland, OR

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Kyungji Lee; Suyeon Shin, MD; In-ki Jin, PhD, Hallym University, Chuncheon, Korea

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Whitney Mast; Huanping Dai, PhD, The University Of Arizona, Tucson, AZ

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Peggy Nelson, PhD; Melanie Gregan, PhD; Trevor Perry; Coral Hanson, MA; Kendra Day, University Of Minnesota, Minneapolis, MN
Dianne Vantasell, PhD, Bose Corporation

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Yingjiu Nie, PhD; Alexandria Matz; Harley Wheeler, BA, James Madison University, Harrisonburg, VA

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Grant King; Emily Buss, PhD, UNC Chapel Hill, Chapel Hill, NC

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Heidi Lang, BA; Ryan W. Mccreery, PhD; Lori J. Leibold, PhD; Margaret K. Miller, AuD, Center For Hearing Research, Boys Town National Research Hospital, Omaha, NE

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Shea Long, BS; Brittan Barker, PhD; Madison Murphy, Utah State University, Logan, UT

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Intelligibility of Multiple Talkers’ Speech in Complex Noise
Madison Murphy, BS; Brittan Barker, PhD, Utah State University, Logan, UT

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Kanae Nishi, PhD; Jennifer Schmaus, Boys Town National Research Hospital, Omaha, NE

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Celia Riffel, BA; Victoria Sanchez, PhD; Theresa Chisolm, PhD, University Of South Florida, Tampa, FL

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Jaclyn Schuman, AuD; Chelsea Carter, AuD; Sadie Coleman, AuD; Sandra Gordon-Salant, PhD, University Of Maryland, College Park, College Park, MD
Douglas Brungart, PhD, Walter Reed National Medical Center, Bethesda, MD
A Cross-Sectional Investigation of Peripheral Auditory Function and Speech Perception in Noise Performance
Samantha Stiepan, AuD; Sumitrajit Dhar, PhD; Jungmee Lee, PhD; Jungwha Lee, PhD; Jonathan Siegel, PhD, Northwestern University, Evanston, IL

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Peter Torre, San Diego State University, San Diego, CA
Gayle Springer; Christopher Cox, Johns Hopkins University, Baltimore, MD
Howard Hoffman, National Institute on Deafness and Other Communication Disorders, Bethesda, MD
Michael Plankey, Georgetown University, Washington, DC

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Cognitive Factors that Contribute to Children’s Recognition of Degraded Speech
Kristi Ward; Tina Grieco-Calub, PhD, Northwestern University, Evanston, IL

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Kenneth Morse, BS; Kathy Vander Werff, Syracuse University, Syracuse, NY

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Craig Newman, PhD; Sharon Sandridge, PhD; Gina Stillitano, AuD, Cleveland Clinic, Cleveland, OH

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Sharon Sandridge, PhD; Craig Newman, PhD, Cleveland Clinic, Cleveland, OH

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Richard Tyler, PhD; Phillip Gander, PhD; Rachael Owen, University Of Iowa, Iowa City, IA
Ann Perreau, PhD; Alexandra Watts, Augustana College, Rock Island, IL

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Preyanca Oree, BA; Michelle Arnold, AuD; Terry Chisolm, PhD; Victoria Sanchez, PhD, University Of South Florida, Tampa, FL

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Erin Picou, PhD, Vanderbilt University Medical Center, Nashville, TN

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Chloe Robbins, BS; Nicole Marrone, PhD, University Of Arizona, Tucson, AZ

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Victoria Sanchez, PhD; Theresa Chisolm, PhD, Auditory Rehabilitation & Clinical Trials Laboratory, University Of South Florida, Tampa, FL; Global Center For Hearing & Speech Research, University Of South Florida, Tampa, FL; Dept. Communication Sciences & Disorders, University Of South Florida, Tampa, FL
Robert Frisina, PhD, Global Center for Hearing & Speech Research, University of South Florida, Tampa, FL.; Dept. Communication Sciences & Disorders, University of South Florida, Tampa, FL
The Clarity-1 Consortium, Autifony Therapeutics Ltd., London, UK
John Hutchison, MD; Charles H. Large, PhD, Autifony Therapeutics Ltd., London, UK, Imperial College London

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Does Dynamic Pitch Aid Older Listeners’ Speech Recognition in Speech Maskers?
Jing Shen, PhD; Pamela Souza, PhD, Northwestern University, Evanston, IL

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Pamela Souza, PhD; Paul Reinhart; Rachel Ellinger, Northwestern University, Evanston, IL
Richard Wright, PhD, University Of Washington
Frederick Gallun, PhD, National Center for Rehabilitative Auditory Research and Oregon Health Sciences University, Portland, OR

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Normal Values for Cervical and Occular Vestibular-Evoked Myogenic Potentials (VEMP): Effect of Body position and Electrode Montage
Navid Shahnaz, PhD, University Of British Columbia, Vancouver, BC
Eytan David, MD, Lions Gate Hospital, North Vancouver, BC
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