This meeting will continue AAS’s great tradition in promoting translational research and providing a great atmosphere for collegial dialogues. While I know attendees value the familiarity of this meeting’s organisation and structure, this year we are introducing a few new changes that I am excited about. These changes include a special session by the Industry Research Consortium Thursday morning, a Mexican theme night, live music and dancing, and a surprise announcement at the business luncheon Friday afternoon. More details below!

AAS is grateful for the continued support from NIDCD through a R13 conference grant, which has allowed us to bring outstanding Translational Research and Special Session speakers to the meeting while also supporting Student Travel awards. Join us on Friday afternoon as our NIDCD colleagues provide an update on NIDCD funding opportunities for students and young investigators.

SPEAKERS AND SPECIAL PROGRAM
We are privileged to have a terrific line-up of speakers for our featured sessions.

The Carhart Memorial Lecture this year will be given by Laurie Eisenberg of the University of Southern California. Many years ago, Dr. Eisenberg coauthored with Dr. William House the seminal article documenting initial experiences with cochlear implants in children and has continued with a remarkable career focused on CIs in children. Her lecture The Remarkable Cochlear Implant and its Impact on Childhood Deafness will be followed by a reception to which all attendees are invited. Margaritas and other Mexican delicacies will be served, bring your colorful attire.

The Translational Lecture series demonstrates the diversity of our community and the translational spirit of the work that we do. Dr. Stefan Launer will speak on Healthy Hearing in the Context of Healthy Aging, Dr. Sophie Scott will present Towards a New Model of Auditory Cortical Processing, and Dr. Charles Della Santina will talk about First-in-Human Results from the Multichannel Vestibular Implant Early Feasibility Study.

As if that weren’t exciting enough, Saturday afternoon brings us what is sure to be a fascinating special session on Multisensory Processing. We will hear Dr. Nancy Tye-Murray on audiovisual speech integration, Dr. Daniel Wesson on olfactory-auditory integration, Dr. Timothy Hullar on integration of auditory and balance cues, and Dr. Mark Wallace on multisensory integration as it relates to CIs and speech. This session is going to be huge!

A new special session will be introduced Thursday morning. The early morning will be Technology Updates as in the past. In the latter half of the morning, we will have a special session organised by the Industry Research Consortium, An Industry Perspective on Important Research Trends. We will hear from both industry researchers and from IRC grant recipients on current research that represents the highest research priorities of the hearing industry. It is guaranteed to be the greatest IRC session this meeting has ever had.

Each year, the NIDCD grant funds a Young Investigator to tell his or her story about their journey on the road to becoming an independent investigator. We are privileged to hear O’neil W. Guthrie, our 2019 Young Investigator, share career insights at 8:00 AM Friday morning.
AWARDS
Dr. Bob Burkard (AAS President) will host the Awards Luncheon on Friday. We will honor the 2019 recipient of the Life Achievement Award, Dr. Edwin Rubel, who has been at the forefront of basic auditory neuroscience for 40 years, producing seminal works along the way. Also at this luncheon, the Editor of Ear and Hearing, Dr. Brenda Ryals, will present the Editor’s Award for the best manuscript in our journal.

NIDCD support includes Student Travel Awards, which are given to students to attend the Annual AAS meeting, and present a poster summarizing their research efforts. This year, 20 students were selected in the highly competitive Mentored Graduate Student and Resident Research Poster category. In addition, 15 AuD students who completed T35 Research Traineeships are receiving travel support to participate in our meeting.

The AAS New Investigator Travel Award exists to encourage the participation of new investigators in our Annual meeting. These awards are quite competitive, and we are pleased that Michelle Arnold, Vijayalakshmi Easwar, Niall Klyn and Sterling Sheffield have been selected for podium presentations at the meeting.

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

SOCIAL EVENT
Hearing researchers are known worldwide for their love of dancing all night long. This year, instead of taking busses to a museum or garden, everyone is invited Friday night to shake their semicircular canals to the funky beat of the Rhythm Edition Band! No tickets are necessary and the event is at the conference hotel, so bring your dancing shoes and have a great time! Food will be served and there will be a cash bar. I’m pleased to say that as a part of this event, the National Acoustic Laboratories will be promoting best practices towards hearing safety.

PROGRAM COMMITTEE
As every program chair is, I am indebted to the AAS Executive Director Darla Eastlack for her extraordinary ability to ensure that the planning and execution of each meeting is a success. I am also indebted to the many people who helped review and assess the 200+ abstracts that we received for this meeting to ensure that the scientific content of this meeting is a high caliber. They are:

Marlene Bagatto
Rafael Delgado
Anna Diedesch
Sumit Dhar
Dave Eddins
Dave Fabry
Jason Galster
Rene Gifford
Ben Hornsby
Lisa Hunter
Francis Kuk
Anil Lalwani
Charles Limb
Ryan McCreery
Beth Prieve
Kerry Recker
Sherri Smith
Chris Stecker
Kelly Tremblay
Ann Eddins

I would also like to thank all of those who accepted the invitation to present and moderate at this meeting, and thank the Industry Research Consortium for sponsoring and organising their special session. I’d like to thank the AAS Board for their help planning for this meeting, and in particularly I’d like to thank the previous Chair Bob Burkard for his sage advice throughout the planning process.

Finally, I’d like to thank all of the multi-disciplinary members of this great society who make this such a special meeting year after year with your scientific contributions and collegial interactions. I and the rest of the Board look forward to participating with everyone at the 2019 Annual Meeting!

Brent Edwards, PhD
2019 Program Chair
THURSDAY, FEBRUARY 28, 2019

7:30 am – 5:00 pm  Registration  WEST FOYER

8:00 am – 9:55 am  TECHNOLOGY UPDATES

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

8:00 AM – 8:25 AM  First Round

Session 1A  Quality Control: Can Smartphone-based Telehealth Measure Up on Patient Outcomes?
Neil A. Wright, AuD, GN Hearing / ReSound  MOHAVE

Session 1B  Widex Directional Microphone and Noise Reduction Algorithm Provide Benefits at Realistic Signal-to-Noise Ratio (SNR) Conditions
Francis Kuk, PhD, Widex ORCA-USA  KIVA

Session 1C  Livio AI: Healthable Hearing Technology with Fall Detection and Alerts
Michelle Hicks, PhD, Starkey Hearing Technologies  HACIENDA

Session 1D  The Multifunctional Hearing Instrument
Aart Z. van Halteren, MS, Sonion Nederland B.V.  PALOMA

8:30 AM – 8:55 AM  Repeat of Sessions 1A – 1D
THURSDAY, FEBRUARY 28, 2019

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

9:00 AM – 9:25 AM  First Round

Session 2A  Oticon RemoteCare
Kelly A. Stahl, AuD, Oticon, Inc.  MOHAVE

Session 2B  Benefits of Phonak Marvel: From First Impressions to Lasting Impressions
Lori Rakita, AuD, Phonak LLC  KIVA

Session 2C  SignalMaster and Other User Development Research Options from Intelligent Hearing Systems
Rafael E. Delgado, PhD, Intelligent Hearing Systems Corp.  HACIENDA

Session 2D  Innovation to Optimize Style and Technology
Eric Branda, PhD, Signia Hearing Instruments  PALOMA

9:30 AM – 9:55 AM  Repeat of Sessions 2A – 2D

10:30 am – 12:00 pm  INDUSTRY RESEARCH CONSORTIUM SPECIAL SESSION:
AN INDUSTRY PERSPECTIVE ON IMPORTANT RESEARCH TRENDS
KIVA-HACIENDA

Stefan Launer, PhD, Sonova, AG, Switzerland
Andrea Pittman, PhD, CCC-A, Arizona State University, Tempe, AZ
Elizabeth Beach, PhD, National Acoustic Laboratories, Australia

12:00 pm – 12:50 pm  LUNCH OUTDOORS ON THE WEST PATIO

12:50 pm – 1:00 pm  POSTER SESSION I SETUP - PUT UP POSTERS

1:00 pm – 1:10 pm  Opening Comments  KIVA-HACIENDA
Robert Burkard, PhD, AAS President
Brent Edwards, PhD, President-Elect and Program Chair

1:10 pm – 2:10 pm  TRANSLATIONAL RESEARCH I  KIVA-HACIENDA
Moderator: Graham Naylor, PhD

Healthy Hearing in the Context of Healthy Aging
Stefan Launer, PhD
Sonova AG, Switzerland
PODIUM SESSION I: ELECTROPHYSIOLOGY MOHAVE
Moderator: Kelly Tremblay, PhD

2:25 PM – 2:45 PM Evidence of Conditioning in Preventing Synaptopathy
Christopher Spankovich, PhD, University of Mississippi Medical Center, Jackson, MS

2:45 PM – 3:05 PM Auditory Evoked Potentials in Veterans with Noise Exposure
Naomi Bramhall, PhD, VA RR&D NCRAR, Portland, OR

3:05 PM – 3:25 PM Cortical Correlates of Hearing Aid Processing in Older Hearing-Impaired Listeners
Christopher Slugocki, PhD, Widex Office of Research in Clinical Amplification (ORCA-US), Lisle, IL

3:25 PM – 3:40 PM BREAK

3:40 PM – 4:00 PM Newborn Autism Spectrum Disorder Screening using Auditory Brainstem Responses
Rafael Delgado, PhD, Intelligent Hearing Systems Corp & University of Miami, Department of Biomedical Engineering, Miami, FL

4:00 PM – 4:20 PM Predicting the Audibility of Speech Using Envelope Following Responses
New Investigator Presentation
Vijayalakshmi Easwar, PhD, University of Wisconsin-Madison, Madison, WI

4:20 PM – 4:40 PM TT-ECochG-Morphology Analysis by the Nonlinear Approximation of the Gauss Function
Krzysztof Morawski, MD, PhD, Department Of Otolaryngology, Wroclaw Medical University, Wroclaw, Poland

PODIUM SESSION II: TINNITUS, TRANSFER FUNCTIONS AND TURSIOPS KIVA-HACIENDA
Moderator: James Henry, PhD

2:25 PM – 2:45 PM Reproducible and Long-Term Efficacy of a New Treatment for Tinnitus
Hubert Lim, PhD, University of Minnesota, and Neuromod Devices Limited, Minneapolis, MN

2:45 PM – 3:05 PM Auditory, Metabolic, and Neuropsychological Aspects of Blast-Induced Tinnitus in Humans
Anthony T. Cacace, PhD, Department of Communication Sciences & Disorders, Wayne State University, Detroit, MI

3:05 PM – 3:25 PM Sound Therapy App for Tinnitus Suppression in Cochlear Implant Patients
Ann Perreau, PhD, Augustana College, Rock Island, IL

3:25 PM – 3:40 PM BREAK

3:40 PM – 4:00 PM Wideband Acoustic Immittance Measures for Assessment of Otosclerotic Ears
W. Wiktor Jedrzejczak, PhD, Institute of Physiology and Pathology of Hearing, Warsaw, Poland

4:00 PM – 4:20 PM Modulation Transfer Function of the Human Efferent System
Srikanta Mishra, PhD, NM State University, Las Cruces, NM

4:20 PM – 4:40 PM The Offset ABR in the Bottlenose Dolphin (Tursiops Truncatus)
Robert Burkard, PhD, University at Buffalo, Buffalo, NY
THURSDAY, FEBRUARY 28, 2019

PODIUM SESSION III: COGNITION AND PSYCHOACoustics

Moderator: Erin Picou, PhD

2:25 PM – 2:45 PM Real-time Sound Localization Degradation while Preserving Binaural Speech-in-Noise Benefits
   New Investigator Presentation
   Sterling W. Sheffield, PhD, University of Florida, Gainesville, FL

2:45 PM – 3:05 PM Relationship Between Self-Reported Spatial Hearing Ability and Hearing Handicap
   Hua Ou, MD, PhD, Wayne State University, Detroit, MI

3:05 PM – 3:25 PM Size of the Auditory Scene
   William A. Yost, PhD, Arizona State University, Tempe, AZ

3:25 PM – 3:40 PM BREAK

3:40 PM – 4:00 PM Measuring Listening-Related Fatigue in Children: Validating the VFS-CHL
   Benjamin Hornsby, PhD, Vanderbilt University Medical Center, Nashville, TN

4:00 PM – 4:20 PM Objective Measurement of Cognitive Systems During Effortful Listening
   David B. Ryan, PhD, Hearing and Balance Research Program James H. Quillen VAMC, Johnson City, TN

4:20 PM – 4:40 PM Factors Influencing Reaction Time in Speech-in-Noise Testing
   Douglas S. Brungart, PhD, Walter Reed NMMC, Bethesda, MD

5:00 pm – 6:15 pm CARHART MEMORIAL LECTURE

Moderator: Rene Gifford, PhD

The Remarkable Cochlear Implant and its Impact on Childhood Deafness
Laurie S. Eisenberg, PhD
University of Southern California, Los Angeles, CA

6:30 pm – 7:30 pm OPENING RECEPTION

FRIDAY, MARCH 1, 2019

7:30 am – 2:00 pm Registration

8:00 am – 8:30 am YOUNG INVESTIGATOR RESEARCH PRESENTATION

Moderator: Lisa Hunter, PhD

Cochlear DNA Repair: An Endogenous Molecular Defense
O’neil W. Guthrie, MS, PhD, CCC-A
Northern Arizona University, Flagstaff, AZ

8:30 am – 9:30 am TRANSLATIONAL RESEARCH II

Moderator: Charles Limb, MD

Towards a New Model of Auditory Cortical Processing
Sophie K. Scott, PhD
University College London, London, UK
FRIDAY, MARCH 1, 2019

9:30 am – 12:00 pm  POSTER SESSION I PRESENTATIONS  WEST PATIO, NORTH AND SOUTH FOYERS
Mentored Graduate Student and Resident Research Posters, T35 Student Research Trainee Posters & General Posters

12:00 am – 12:10 pm  POSTER SESSION I – TAKE DOWN POSTERS

12:10 pm – 1:20 pm  AWARDS LUNCHEON  MOHAVE-KIVA
Membership Update: Robert Burkard, PhD, AAS President
Life Achievement Award: Edwin W Rubel, PhD, Virginia Merrill Bloedel Hearing Research Center, Departments of Otolaryngology-HNS and Physiology & Biophysics, University of Washington, Seattle, WA
Ear and Hearing Editor’s Award: Soli, Sigfrid D.; Giguère, Christian; Laroche, Chantal; Vaillancourt, Véronique; Dreschler, Wouter A.; Rhebergen, Koenraad S.; Harkins, Kevin; Ruckstuhl, Mark; Ramulu, Pradeep; Meyers, Lawrence S. (2018) Evidence-Based Occupational Hearing Screening I: Modeling the Effects of Real-World Noise Environments on the Likelihood of Effective Speech Communication. Ear and Hearing. 39(3):436-448

1:20 pm – 1:30 pm  POSTER SESSION II SETUP - PUT UP POSTERS

1:30 pm – 4:00 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

4:00 pm – 5:30 pm  NIDCD FUNDING OPPORTUNITIES FOR STUDENTS AND YOUNG INVESTIGATORS  HACIENDA-PALOMA
Dr. Alberto Rivera-Rentas
NIDCD, NIH, Bethesda, MD

4:00 pm – 6:00 pm  OPEN SOURCE AUDIO PROCESSING TOOLS FOR HEARING RESEARCH  MCDOWELL BALLROOM
Rafael Delgado, Intelligent Hearing Systems; Harinath Garudadri; Tamara Zubatiy; Dhiman Sengupta, University of California, San Diego; Arthur Boothroyd, San Diego State University; Caslav (Chas) Pavlovic; S.R. Prakash; Reza Kassayan, BatAndCat Corporation; Hendrik Kayser, University of Oldenburg; Paul Maanen; Tobias Herzke, HörTech gGmbH Oldenburg; Volker Hohmann, BatAndCat Corporation, HörTech gGmbH Oldenburg; Odile Clavier; Chip Audette, Creare LLC; Daniel Rasetshwane; Steve Neely; Ryan McCrery, Boystown National Research Hospital; Marc Brennan, University of Nebraska, Lincoln; Nasser Kehtarnavaz; Edward Lobarinas, University of Texas at Dallas

5:30 pm – 6:30 pm  STUDENT SOCIAL HOUR  AGAVE TERRACE

7:00 pm – 10:00 pm  AAS SOCIAL  KIVA-PALOMA
All attendees are invited to shake their semicircular canals to the funky beat of the Rhythm Edition Band. No tickets are necessary for this event at the Embassy Suites by Hilton Scottsdale Resort. Food will be served and there will be a cash bar.
SATURDAY, MARCH 2, 2019

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

8:00 am – 9:00 am  **TRANSLATIONAL RESEARCH III**  HACIENDA-PALOMA
   Moderator: Devin McCaslin, PhD
   MVI™ Multichannel Vestibular Implant Early Feasibility Study – First-in-Human Results
   Charles Della Santina, MD, PhD
   Johns Hopkins School of Medicine, Baltimore, MD

9:15 am – 12:15 pm  Concurrent Podium Presentations

**PODIUM SESSION IV: COCHLEAR IMPLANTS AND HEARING AIDS**  MOHAVE
   Moderator: Jason Galster, PhD

9:15 AM – 9:35 AM  Examining the Roots of CI Users’ Difficulties with Vocal Control
   **Justin Aronoff, PhD, University of Illinois at Urbana-Champaign, Champaign, IL**

9:35 AM – 9:55 AM  Spectral Processing and Language Development in NH and CI Children
   **Susan Nittrouer, PhD, University of Florida, Gainesville, FL**

   **Margaret Dillon, AuD, University of North Carolina at Chapel Hill, Chapel Hill, NC**

10:15 AM – 10:35 AM  Use of Electrocochleography to Determine Electrode Location in the Cochlea
   **Aniket Saoji, PhD, Mayo Clinic at Rochester, Rochester, MN**

10:35 AM – 10:55 AM  **BREAK**

10:55 AM – 11:15 AM  Validation of the Speech Quality Instrument for Cochlear Implant Users
   **Michael Chun, BS, Columbia University Medical Center, New York, NY**

11:15 AM – 11:35 AM  Mitigating the Effect of Noise in Cochlear Implant Simulation
   **Frederic Apoux, PhD, The Ohio State University, Columbus, OH**

11:35 AM – 11:55 AM  Hearing-aid Output and a Zone of Acceptable Listening
   **Arthur Boothroyd, PhD, San Diego State University, San Diego, CA**

11:55 AM – 12:15 PM  What Does the Envelope Difference Index (EDI) Measure?
   **James M. Kates, Department of Speech Language and Hearing Science, University of Colorado, Boulder, CO**
SATURDAY, MARCH 2, 2019

PODIUM SESSION V: ADVANCES IN AUDITORY TESTS KIVA
Moderator: Rafael Delgado, PhD

9:15 AM – 9:35 AM  FreeHear: A New Hearing Test for Children
David Moore, PhD, University of Manchester, Manchester, UK

9:35 AM – 9:55 AM  Virtual Reality Assessment of Auditory Performance
G. Christopher Stecker, PhD, Vanderbilt University School of Medicine, Nashville, TN

Kaylah Lalonde, PhD, Boys Town National Research Hospital, Omaha, NE

10:15 AM – 10:35 AM Visual Speech Recognition Program (VSRP) Improves Speech Perception in Noise
Arun Raghavan, BS, University of Cincinnati College of Medicine, Cincinnati, OH

10:35 AM – 10:55 AM BREAK

10:55 AM – 11:15 AM Multi-site Validation of CEDRA, Consumer-based Screening Questionnaire for Ear Disease
New Investigator Presentation
Niall A.M. Klyn, PhD, Northwestern University, Evanston, IL

Marcin Masalski, PhD, Wroclaw Medical University, Faculty of Postgraduate Medical Training, Department and Clinic of Otolaryngology Head and Neck Surgery, Wroclaw, Poland

11:35 AM – 11:55 AM Speech in Noise Abilities in Patients with Acoustic Neuromas
Matthew B. Fitzgerald, PhD, Stanford University, Palo Alto, CA

11:55 AM – 12:15 PM Impact of Talker Familiarity and Aging in a Real-world Environment
Julie Cohen, AuD, University of Maryland, College Park, MD

PODIUM SESSION VI: HEARING ACROSS THE POPULATION HACIENDA-PALOMA
Moderator: Sumit Dhar, PhD

9:15 AM – 9:35 AM Healthcare Access Among Hearing-Impaired Older Adults: Results Using MEPS Database
Hua Ou, MD, PhD, Wayne State University, Detroit, MI

9:35 AM – 9:55 AM Insights from Conducting Research with VA Clinical Databases
Graham Naylor, PhD, University of Nottingham, School of Medicine, Nottingham & Glasgow, UK

9:55 AM – 10:15 AM Preliminary Hearing-Related Findings from Analyses of Clinical VA Data
Gabrielle Saunders, PhD, VA RR&D NCRAR/Eriksholm Research Centre, Sneekersten, Denmark

10:15 AM – 10:35 AM BEAR - A Large Scale Effort to Improve Clinical Practice
Nikolai Bisgaard, M.Sc EE, GN Hearing, Ballerup, Denmark
### SATURDAY, MARCH 2, 2019

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<th>Time</th>
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<td>10:35 AM – 10:55 AM</td>
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| 10:55 AM – 11:15 AM | Prospective Study of Dietary Intake and Auditory Threshold Decline  
Sharon Curhan, MD, Channing Division of Network Medicine,  
Brigham and Women’s Hospital, Harvard Medical School,  
Boston, MA                                                   |
| 11:15 AM – 11:35 AM | Hearing Aid Use Among Hispanic/Latino Adults in the US  
New Investigator Presentation  
Michelle Arnold, PhD, University of South Florida Sarasota-Manatee,  
College of Science and Mathematics, Sarasota, FL              |
| 11:35 AM – 11:55 AM | Auditory Lifestyle Differences between Urban and Rural Areas  
Erik J. Jorgensen, AuD, University of Iowa, Iowa City, IA     |
| 11:55 AM – 12:15 PM | Hearing Loss is Associated with Depressive Symptoms in Older Adults  
Aishwarya Shukla, BA, Johns Hopkins School of Medicine,  
Baltimore, 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                                                                |
| 1:30 pm – 4:00 pm | SPECIAL SESSION: MULTISENSORY PROCESSING HACIENDA-PALOMA  
Moderator: Robert Burkard, PhD  
Audiovisual Speech Integration: Time for a Paradigm Shift  
Nancy Tye-Murray, PhD  
Department of Otolaryngology, Washington University School of Medicine,  
St. Louis, MO                                                 |
|               | Prioritizing Sensory Perception  
Daniel W. Wesson, PhD  
Department of Pharmacology & Therapeutics, University of Florida College  
of Medicine, Gainesville, FL                                  |
|               | Multisensory Integration of Auditory and Balance-Related Cues  
Timothy Hullar, MD  
Oregon Health and Science University, Portland, OR              |
|               | Adventures in Multisensory Science – from Neurons to Clinical Applications  
Mark T. Wallace, PhD  
Vanderbilt University, Nashville, TN                            |
| 4:00 pm – 4:15 pm | Summary and Adjournment HACIENDA-PALOMA                                                         |
thank you

The American Auditory Society wishes to thank these companies for their support of complimentary memberships for 2019 AuD Students, PhD Students, and Neurotology Fellows. We are grateful for their generous educational support for these future audiologists, otolaryngologists and hearing researchers.

Advanced Bionics

Intelligent Hearing Systems

Oticon

Sivantos

Sonion