

# AGING & SPEECH COMMUNICATION CONFERENCE

## NOVEMBER 3-6, 2019

### SHERATON SAND KEY RESORT, CLEARWATER BEACH, FL

Presbycusis, or Age-Related Hearing Loss (ARHL), is the number one communication disorder and number one neurodegenerative condition of our expanding aging population; and comprises one of the top 3 chronic medical conditions, along with arthritis and cardiovascular diseases. The vast majority of people over age 60 are affected by this progressive decline in auditory sensitivity and speech understanding, which are hallmarks of ARHL. The thematic focus of this conference is to bring together key researchers and trainees from all over the world, to encourage formulation of new research projects on novel biotherapeutics, auditory training and acoustic treatments.

#### Learner Objectives:

As a result of participation in this conference, participants should be able to:

- list three ways in which cochlear, brainstem or the central auditory system changes with age
- describe general interactions between cognitive decline, aging and age-related speech and hearing deficits
- identify recent co-morbidities that are shown to interact with aging, hearing loss, and medical interventions
- list three new professional contacts resulting from this conference that have the potential for future collaboration



The University of South Florida is approved by the Continuing Education Board of the American Speech-Language-Hearing Association (ASHA) to provide continuing education activities in speech-language pathology and audiology. **See course information for number of ASHA CEUs, instructional level and content area.** ASHA CE Provider approval does not imply endorsement of course content, specific products or clinical procedures.

This course is offered for 1.50 ASHA CEUs (Intermediate Level, Professional Area)

## Agenda

DAY/DATE	TIME	SESSION/EVENT	PRESENTER	Seat Time
Sunday 11/3/2019	4:00-6:00 p.m.	Conference Registration and Check-In		
	6:00-8:00 p.m.	Opening Banquet		
	7:00-8:00 p.m.	<p><b>Invited Session: <i>Plasticity of the Older Ear and Brain: Neurobiological Mechanisms and Neuroscientific</i></b></p> <p><b>Topic:</b> Working memory is important for our communication skills, especially for people with impaired hearing. Current research focuses on hearing loss and working memory capacity.</p> <p><b>Status:</b> SENIOR; International - Sweden</p>	<p><b>Dr. Jerker Rönnerberg</b>, Professor of Behavioural Sciences and Learning, Disability Research Division, Linköping University</p>	60
Monday 11/4/2019	<b>Underpinnings of Age-Related Hearing and Speech Communication Problems</b>			
	8:00 - 8:40 a.m.	<p><b>Topic:</b> Implications of cochlear regenerative medicine techniques for translational approaches to treating age related hearing loss. <b>Status:</b> Senior, USA,</p>	<p><b>Dr. Ebenezer Yamoah</b>, Professor of Physiology &amp; Cell Biology, Univ. Nevada- Reno, NV</p>	40
	8:40 - 9:20 a.m.	<p><b>Topic:</b> Cellular mechanism alterations in the aging cochlea and implications for future therapies. <b>Status:</b> Mid-Career, USA</p>	<p><b>Dr. Hainan Lang</b>, Assoc. Professor, Dept. Pathology and Laboratory Medicine, Med. Univ. S. Carolina, SC.</p>	40
	9:20 - 9:40 a.m.	<b>BREAK</b>		
	9:40 - 10:20 a.m.	<p><b>Topic:</b> Aging brain function related to hearing and balance, neurodegeneration, and neuro-immune responses. <b>Status:</b> Senior, USA.</p>	<p><b>Dr. Dwayne Simmons</b>, Cornelia Smith Endowed Professor, Dept. Chair, Biology; Baylor U., TX</p>	40
	10:20 - 11:00 a.m.	<p><b>Topic:</b> Age-related changes of temporal coding representations in the peripheral and central auditory systems. <b>Status:</b> Mid-Career, USA</p>	<p><b>Dr., Ed Bartlett</b>, Assoc. Professor Biology &amp; Biomedical Engineering; Purdue University, IN</p>	40
	11:00-11:40 a.m.	<p><b>Topic:</b> The neurobiology and psychology of speech comprehension, and how this is affected by changes in cognitive and hearing ability in the aged. <b>Status:</b> Mid-Career, USA</p>	<p><b>Dr. Jonathan Peelle</b>, Associate Professor, Otolaryngology Dept., Washington University, MO</p>	40
	11:40-11:50 a.m.	DISCUSSION		10
	11:50 - 1:00 p.m.	<b>LUNCH</b>		

## Agenda (cont.)

DAY/DATE	TIME	SESSION/EVENT	PRESENTER	Seat Time
<b>Monday 11/4/2019</b>	<b>CONTRIBUTED PODIUM PRESENTATIONS</b>			
	1:00 - 1:15 p.m.	Effects of aging and cognitive effort on talker familiarity benefit in a complex listening environment	<b>Julie I. Cohen</b> 1*#, Douglas S. Brungart 2, Sandra Gordon-Salant 1 1 University of Maryland, College Park, MD, USA 2 Walter Reed National Military Medical Center, Bethesda, MD, USA	15
	1:15 - 1:30 p.m.	Contralateral speech interference in cochlear-implant users worsens with age: Neural plasticity or attention?	<b>Matthew J. Goupell</b> 1, Joshua G. W. Bernstein 2 1 University of Maryland, College Park, MD, USA 2 Walter Reed National Military Medical Center, Bethesda, MD, USA	15
	1:30 - 1:45 p.m.	Perceptual Decision-Making during Speech Recognition in Noise by Middle-Aged and Older Adults	<b>Kenneth I. Vaden Jr.</b> *#1, Susan Teubner-Rhodes 1,2, Jayne B. Ahlstrom 1, Judy R. Dubno 1, Mark A. Eckert 1 1 Department of Otolaryngology – Head and Neck Surgery, Medical University of South Carolina, 135 Rutledge Avenue, MSC 550, Charleston, SC USA 2 Department of Psychology, 226 Thach Hall, Auburn University, AL, USA	15
	1:45 - 2:00 p.m.	Associations Among Sensory Function, Cognitive Processing and Daily Function: A Longitudinal Study of Older Adults	<b>Larry E. Humes</b> 1*#, Thomas A. Busey 2 1 Department of Speech & Hearing Sciences, Indiana University, Bloomington, IN, USA 2 Department of Psychological & Brain Sciences, Indiana University, Bloomington, IN, USA	15
	<b>2:00 - 2:15 p.m.</b>	<b>BREAK</b>		
	2:15 - 2:30 p.m.	Short-term Acoustic Deprivation and Enhancement lead to Central Gain Modulation in the Brainstem and Cortex	<b>Peter J. Hutchison</b> *#, Hannah Maeda, David A. Eddins, Ann C. Eddins Auditory and Speech Sciences Laboratory, University of South Florida, Tampa, FL, USA Global Center for Hearing & Speech Research, University of South Florida, Tampa, FL, USA	15
	2:30 - 2:45 p.m.	Gene Expression and Auditory Physiology Analyses to Determine the Roles of Connexin 30 and 43 in Age-Related Hearing Loss	<b>Jennifer Pineros</b> 1,3#, Xiaoxia Zhu 1,3, Bo Ding 1,3, Parveen Bazard 1,3, Robert D. Frisina 1,2,3* 1 Dept. of Medical Engineering 2 Dept. of Communication Sciences & Disorders 3 Global Center for Hearing & Speech Research, Univ. South Florida, Tampa, FL, USA	15

## Agenda (cont.)

DAY/DATE	TIME	SESSION/EVENT	PRESENTER	Seat-Time
<b>Monday 11/4/2019</b>	<b>CONTRIBUTED PODIUM PRESENTATIONS (cont.)</b>			
	2:45 - 3:00 p.m.	When individual differences are more important than age: Subcortical envelope encoding of sustained amplitude modulation predicts speech-in-noise performance in difficult listening conditions.	<b>Carolyn M. McClaskey*#</b> , James W. Dias, Kelly C. Harris Dept. Otolaryngology–Head and Neck Surg., Med. Univ. South Carolina, Charleston, SC, USA	15
	<b>3:00 - 3:15 p.m.</b>	<b>BREAK</b>		
	<b>3:15 - 5:30 p.m.</b>	<b>POSTER SESSION</b>		
	5:45 - 6:15 p.m.	Transportation to Aquarium		
	6:30 - 9:00 p.m.	Group-wide Social Event - <b>Clearwater Marine Aquarium</b>		
<b>Tuesday 11/5/2019</b>	<b>Interactions Between Cognitive Decline in Aging and Age-Related Speech Deficits and Hearing Loss: Translational Implications</b>			
	8:00 - 8:40 a.m.	<b>Topic:</b> Associations between peripheral and central hearing loss and cognitive impairment and the impact of hearing loss treatment using cochlear implants and hearing aids on cognitive functions across the lifespan. <b>Status:</b> Junior, International – Australia	<b>Dr. Dona M P Jayakody</b> , Senior Research Audiologist at Ear Science Institute of Australia	40
	8:40- 9:20 a.m.	<b>Topic:</b> Cognitive aspects of hearing, including hearing loss, auditory processing and developmental psychology from childhood to old age, and hearing genetics. <b>Status:</b> Mid-Career, International –England,	<b>Dr. Piers Dawes</b> , Senior Lecturer, Div. of Human Communication, Development & Hearing; Cathie Marsh Inst. for Social Research, School of Social Sci., Univ. Manchester, UK	40
	<b>9:20-9:40 a.m.</b>	<b>BREAK</b>		
	9:40 -10:20 a.m.	<b>Topic:</b> Focus is on communication, cognitive and sensory integration in aging: investigates the premise that reductions in the quality of the sensory input will result in less efficient cognitive functioning, specifically when communicating in adverse environments with background noise. <b>Status:</b> Mid-Career, International –Israel,	<b>Dr. Boaz Ben-David</b> , Baruch Ivcher School of Psychology, IDC Herzliya, Israel	40
	10:20 -11:00 a.m.	<b>Topic:</b> Interactions between non-auditory sensory and motor processing in older adults with hearing loss. <b>Status:</b> Senior, International-Canada	<b>Dr. Jennifer Ryan</b> , Senior Scientist at Baycrest's Rotman Research Institute and psychology and psychiatry professor at the University of Toronto.	40
	11:00 -11:40 a.m.	<b>Topic:</b> Development & feasibility of auditory -cognitive training to improve outcomes for new NHS hearing aid users. <b>Status:</b> Mid-Career, International –England	<b>Dr. Antje Heinrich</b> , Senior Lecturer, Div. of Human Communication, Development & Hearing; Cathie Marsh Inst. for Social Research, School of Social Sci., Univ. Manchester, UK	40
	11:40 -11:50 a.m.	<b>DISCUSSION</b>		10
	<b>11:50 - 1:00 p.m.</b>	<b>LUNCH</b>		

## Agenda (cont.)

DAY/DATE	TIME	SESSION/EVENT	PRESENTER	Seat-Time
<b>Tuesday 11/5/2019</b>	<b>CONTRIBUTED PODIUM PRESENTATIONS</b>			
	1:00 - 1:15 p.m.	Poor talker discrimination ability in adult cochlear implant users: the potential role of aging	<b>Terrin N. Tamati</b> *#, Aaron C. Moberly The Ohio State University, Columbus, OH, USA	15
	1:15 - 1:30 p.m.	Relations between syllable constituent identification and sentence perception for 212 hearing-aid users with age-related hearing loss	<b>James D. Miller</b> *#, Charles S. Watson Communication Disorders Technology, Inc., Bloomington, IN, USA	15
	1:30 - 1:45 p.m.	Individual differences in corpus callosum structure mediate age-group deficits in auditory spatial processing	<b>James W. Dias</b> *#, Carolyn M. McClaskey, Kelly C. Harris Medical University of South Carolina, Charleston, SC, USA	15
	1:45 - 2:00 p.m.	Efficacy of audiological rehabilitation: a randomized controlled trial	<b>Magits S. 1</b> *#, De Meyere L. 1, Boon E. 2, Dierckx A. 2, Verhaert N. 1,2, Francart T. 1, Wouters J.1, van Wieringen A. 1 1 Department of Neurosciences, Res. Group Experimental ORL, KU Leuven, Leuven, Belgium 2 Department of Otorhinolaryngology, Head and Neck Surgery, University Hospitals Leuven, Leuven, Belgium	15
	2:00 - 2:15 p.m.	Therapeutic intervention against excitotoxicity & preservation of cochlear hair cells after noise-trauma induced hearing loss	<b>Reza Amanipour</b> #1,3, Xiaoxia Zhu 1,3, Guillaume Duvey 2, Sylvain Celanire 2, Joseph P. Walton 1,3,4, Robert D. Frisina* 1,3,4 1 Medical Engineering Dept., Univ. South Florida, Tampa, FL, USA 2 Pragma Therapeutics, Cedex, France 3 Global Center for Hearing & Speech Res., University of South Florida, Tampa, FL, USA 4 Communication Sciences & Disorders Dept., University of South Florida, Tampa, FL, USA	15
	2:15 - 2:30 p.m.	The Interface of Sensory, Motor and Cognitive Aging: Baseline Data from the CLSA	<b>Paul Mick</b> *#1, Kathleen Pichora-Fuller 2, Simon Fraser 2, Jennifer Campos 3, Walter Wittich 4, Natalie Phillips 5 1 University of Saskatchewan, Canada 2 University of Toronto, Canada 3 University Health Network, Toronto, Canada, 4 University of Montreal, Montreal, Canada 5 Concordia University, Canada	15

## Agenda (cont.)

DAY/DATE	TIME	SESSION/EVENT	PRESENTER	Seat-Time
<b>Tuesday 11/5/2019</b>	<b>CONTRIBUTED PODIUM PRESENTATIONS (cont.)</b>			
	2:30 - 2:45 p.m.	Reliability of audiometric assessment in adults with cognitive impairment	<b>McClannahan, K.</b> *#1, Chiu, Y. 2, Sommers, M. 1, Peelle, J.E. 3 1 Department of Psychological and Brain Sciences, Washington University, St. Louis, MO, USA 2 Communication Sciences and Disorders, St. Louis University, St. Louis, MO, USA 3 Department of Otolaryngology, Washington University Medical School, St. Louis, MO, USA	15
	2:45 - 3:00 p.m.	Hearing aids provide clear benefit for elderly users –results from a large-scale study	<b>Nikolai Bisgaard</b> *#1, Tobias Piechowiak 1, Jesper H. Schmidt 2, Sabina Houmøller 3, Anne Wolf 4, 1 GN Hearing, Copenhagen, Denmark 2 Dept. of ORL Head and Neck Surgery and Audiology, Odense University Hospital, Institute of Clinical Research, University of Southern Denmark, Denmark 3 Department of Clinical Research, University of Southern Denmark, Odense, Denmark 4 Dept. Otolaryngology-Head & Neck Surg. & Audiol., Aalborg Univ. Hosp., Aalborg, Denmark	15
	3:00 - 3:30 p.m.	<b>BREAK</b>		
	3:30 - 6:00 p.m.	<b>POSTER SESSION</b>		
<b>Wednesday 11/6/2019</b>	<b>Ageing Co-morbidities: Intersection of Age-linked Medical Conditions and Age-related Speech and Hearing Problems</b>			
	8:00 - 8:40 a.m.	<b>Topic:</b> Ototoxicity & chemotherapy – genetics and phenotypic co-morbidity analyses in adult cancer survivors. <b>Status:</b> Senior, USA	<b>Dr. Lois Travis</b> , Einhorn Professor of Cancer Research, Department of Medicine, and Professor of Medical & Molecular Genetics, Indiana Univ. School of Medicine	40
	8:40 - 9:20 a.m.	<b>Topic:</b> Using large population datasets, analysis of novel community-based evidence on the health determinants and health outcomes associated with a range of chronic, age-linked diseases and disabilities, such as hearing loss. <b>Status:</b> Mid-Career, International – Australia,	<b>Dr. Bamini Gopinath</b> , Associate Professor (Northern) and Principal Research Fellow Sensory Loss Epidemiology, Westmead Clinical School, The Westmead Inst. for Medical Research, Univ. of Sydney	40
	9:20-9:40 a.m.	<b>BREAK</b>		

## Agenda (cont.)

DAY/DATE	TIME	SESSION/EVENT	PRESENTER	Seat-Time
Wednesday 11/6/2019	<b>Aging Co-morbidities: Intersection of Age-linked Medical Conditions and Age-related Speech and Hearing Problems</b>			
	9:40 -10:20 a.m.	<b>Topic:</b> Research focuses on language comprehension in age-linked conditions, including Parkinson's disease, and also lexical semantics in frontotemporal dementia. <b>Status:</b> Senior, US	<b>Dr. Murray Grossman</b> , Professor of Neurology, School of Medicine, University of Pennsylvania	40
	10:20 -11:00 a.m.	<b>Topic:</b> Hearing loss, sensory deficits, speech communication and comorbidities in older adults. <b>Status:</b> Mid-Career, International – Canada	<b>Dr. Natalie Phillips</b> , Professor, Dept. Psychology, Centre for Research in Human Development and the Centre for Research on Brain, Language, and Music, Concordia University, Montreal, CA	40
	11:00 -11:40 a.m.	<b>Topic:</b> Research related to dementia focuses on how speech perception is impacted by the combination of hearing loss and cognitive decline and how to address those speech perception needs in group care settings. <b>Status:</b> Junior, USA	<b>Dr. Sara Mamo</b> , Assistant Professor of Communication Disorders, Public Health and Health Sciences, University of Massachusetts- Amherst	40
	11:40-11:50 a.m.	<b>DISCUSSION</b>		10
	11:55 a.m.	<b>ADJOURN</b>		

## Invited Speaker Disclosures

Dr. Jerker Rönnerberg  
Professor of Behavioural Sciences and Learning, Disability Research Division  
Employed by: Linköping University, Sweden  
No relevant financial or nonfinancial relationships to disclose

Dr. Ebenezer Yamoah  
Professor of Physiology & Cell Biology  
Employed by: University of Nevada- Reno, NV  
No relevant financial or nonfinancial relationships to disclose

Dr. Hainan Lang  
Associate Professor, Department of Pathology and Laboratory Medicine  
Employed by: Medical University of South Carolina, SC  
No relevant financial or nonfinancial relationships to disclose

Dr. Dwayne Simmons  
Cornelia Smith Endowed Professor, Department Chair, Biology  
Employed by: Baylor University, TX  
No relevant financial or nonfinancial relationships to disclose

Dr., Ed Bartlett  
Associate Professor, Biology & Biomedical Engineering  
Employed by: Purdue University, IN  
No relevant financial or nonfinancial relationships to disclose

Dr. Jonathan Peelle  
Associate Professor, Otolaryngology Department  
Employed by: Washington University, MO  
No relevant financial or nonfinancial relationships to disclose

Dr. Dona M P Jayakody  
Senior Research Audiologist  
Employed by: Ear Science Institute of Australia  
No relevant financial or nonfinancial relationships to disclose

Dr. Piers Dawes  
Senior Lecturer, Division of Human Communication, Development & Hearing, Cathie Marsh Institute for Social Research, School of Social Science  
Employed by: University of Manchester, UK  
No relevant financial or nonfinancial relationships to disclose

Dr. Boaz Ben-David  
Baruch Ivcher School of Psychology,  
Employed by: IDC Herzliya, Israel  
No relevant financial or nonfinancial relationships to disclose

Dr. Jennifer Ryan  
Senior Scientist, Baycrest's Rotman Research Institute  
Psychology and Psychiatry Professor  
Employed by: University of Toronto, Canada  
No relevant financial or nonfinancial relationships to disclose

Dr. Antje Heinrich  
Senior Lecturer, Division of Human Communication, Development & Hearing, Cathie Marsh Institute for Social Research, School of Social Science  
Employed by: University of Manchester, UK  
No relevant financial or nonfinancial relationships to disclose

Dr. Lois Travis  
Einhorn Professor of Cancer Research, Department of Medicine  
Professor of Medical & Molecular Genetics  
Employed by: Indiana University, School of Medicine, IN  
No relevant financial or nonfinancial relationships to disclose

Dr. Bamini Gopinath  
Associate Professor (Northern) and Principal Research Fellow  
Sensory Loss Epidemiology, Westmead Clinical School, The Westmead Institute for Medical Research  
Employed by: University of Sydney  
No relevant financial or nonfinancial relationships to disclose

Dr. Murray Grossman  
Professor of Neurology, School of Medicine  
Employed by: University of Pennsylvania, PA  
No relevant financial or nonfinancial relationships to disclose

Dr. Natalie Phillips  
Professor, Department of Psychology, Centre for Research in Human Development and the Centre for Research on Brain, Language, and Music  
Employed by: Concordia University, Montreal, Canada  
No relevant financial or nonfinancial relationships to disclose

Dr. Sara Mamo  
Assistant Professor of Communication Disorders, Public Health and Health Sciences  
Employed by: University of Massachusetts- Amherst, MA  
No relevant financial or nonfinancial relationships to disclose



## Hotel:

The Sheraton Sand Key Resort Clearwater Beach Resort will be the conference host site for 2019. This Hotel is conveniently located on one of the most highly rated beaches in the US, and is close to the University of South Florida campus, on the west coast of Florida, and has direct shuttle contact with the Tampa International Airport, located about 20 miles away; and the Busch Gardens Theme Park and Tampa and Clearwater Aquariums. The newly renovated spacious Sheraton, which will host the opening Banquet and Keynote Humes Lecture on Sunday night, and the Invited Talks and poster sessions, and the Registration Desk, has beautiful conference facilities. There are nicely furnished rooms and suites being held for conference attendees at a very reasonable, reduced rate.

**Start Date: Sunday, November 3, 2019**

**End Date: Wednesday, November 6, 2019**

**Last Day to Book at discounted rate: Thursday, October 3, 2019**

**Group Rate: \$154 USD / night**

[Click here to make your Hotel reservation](#)

## Registration:

[Click here to Register for the conference](#)

Regular Registration: \$450 USD

Trainee/Postdoctoral: \$250 USD

Guest Aquarium Event: \$150 USD

## Contact Us

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