T35 Update

Alyssa Everett and Angela Yung, students of Dr. Musiek at the University of Arizona completed their research training program at Washington University this summer. The NIDCD-funded T-35 research training program allows the students to present their poster work at the American Auditory Society in Scottsdale, Arizona. This conference will be from March 3-5 at the Chaparral Suites Hotel. Alyssa (pictured to the left with her mentor, Dr. Kevin Ohlemiller) will present on her findings of the relationship between PTS severity and changes in glucose transport in cochlear lateral wall while Angela will present her findings on how priming effects speech in noise perception in incongruent sentence conditions.

(Pictured above: Kevin Ohlemiller, research associate professor in the Department of Otolaryngology and Alyssa Everett, student at The University of Arizona.)
the opportunity to apply for scholarships to showcase their CAPD work. In addition, all basic and clinical investigators are encouraged to submit posters for the extensive poster session. Watch for more information from the American Academy of Audiology and or contact Meggan Olek= Molek@AUDIOLOGY.org.

The impressive lineup of speakers and presentation titles include:

Harvey Dillon, PhD  
Deficit Specific Remediation for CAPD: Spatial Processing Disorders and other Specific CAPD Subtypes

Jos Egermont, PhD  
Long-term Non-Traumatic Noise Exposure: A Cause of CAPD?

Holly Fitch, PhD  
Animal Models of Neurodevelopment Disruption and Associated Acoustic Processing Outcomes

Ken Hugdahl, PhD  
Speech Perception and Cognition: Update on Dichotic Listening

Stephen Lomber, PhD  
Auditory Cortex Plasticity Following Hearing Loss

Kathleen Pichora-Fuller, PhD  
Auditory and Cognition Processing in Older Adults

Jeffery Weiheing, PhD  
Auditory Training for Central Auditory Processing Disorder

Auditory Processing Disorders

November 20, 2015, the University of Arizona will host a one-day conference. The conference specifically is sponsored by the Speech, Language, and Hearing Sciences department and is titled APD Diagnosis and Intervention: Practical Perspectives for Clinicians. Dr. Frank Musiek, The University of Arizona, along with Gail Chermak, Washington State University, will lead this conference. Speech Language Pathologists, audiologists, those interested in APD, and anyone in the area should attend to learn more information on auditory processing disorders. Contact Cathy Fay at The University of Arizona for more information: cfay@email.arizona.edu

Upcoming Lectures

The California Academy of Audiology Conference will be held on September 10-12 in San Jose, CA. On September 10th, Dr. Frank Musiek will be presenting on New Horizons in Audiology: Dyslexia and the Vertebro-Basilar System.

The New Mexico Speech and Hearing Association Convention will take place on October 24-25 in Albuquerque, NM. Dr. Frank Musiek will feature presentations on auditory hallucinations, dyslexia, and the vertebro-basilar system.
Jennifer E. Gonzales received a Ph.D. in Speech, Language, and Hearing Sciences with a focus in Audiology from the University of Connecticut in 2015. Dr. Frank Musiek was her major advisor. Previously, she received her B.A. in Communicative Disorders from California State University, Long Beach in 2010. Her current research and clinical interests include central auditory processing disorders, evoked potentials, tinnitus, auditory anatomy and physiology, diagnostics, and assistive listening devices. Her dissertation titled, “The Onset-Offset N1-P2 Auditory Evoked Response in Individuals with High-Frequency Sensorineural Hearing Loss” evaluated the N1-P2 cortical auditory evoked response in individuals with sensorineural hearing loss in comparison to individuals with normal hearing using longer durations of noise presented at dB sensation level (dB SL) intensity. A continuing challenge in audiology has been finding central auditory test procedures that are least affected by sensorineural hearing loss, and a key reason for this is that the effects of peripheral hearing loss on the central auditory nervous system are not well understood. The purpose of this research was to determine whether specific parameters used (i.e., type of noise, bandwidth of noise, intensity level of noise in dB SL) in obtaining the onset-offset N1-P2 auditory evoked response would produce similar results in both groups of individuals. If similar results between the hearing loss and control groups could be found, those parameters could potentially be used in evaluations of individuals with comorbid sensorineural hearing loss and central auditory complaints to determine the presence of true central auditory dysfunction.

This study produced results that are promising in this regard, and this has opened the door for future research evaluating the onset-offset N1-P2 auditory evoked response in individuals with central auditory processing disorder, or CAPD, to be explored.
Recent Publication

**Title:** Characteristics of Pediatric Performance on a Test Battery Commonly Used in the Diagnosis of Central Auditory Processing Disorder.

**Source:** *Journal of the American Academy of Audiology*, Volume 26, Number 7. July/August 2015

**Authors:** Jeffery Weiing, Linda Guenette, Gail Chermak, Mallory Brown, Julianne Ceruti, Krista Fitzgerald, Kristin Geissler, Jennifer Gonzalez, Lauren Brenneman, and Frank Musiek

Past Neuroaudiology Newsletters/Other Important Neuroaudiology Sites


- [http://musiek.faculty.arizona.edu/](http://musiek.faculty.arizona.edu/)

- For weekly updates on new neuroaudiology articles refer to the Neuroaudiology section of Pathways on HHTM: [http://hearinghealthmatters.org/pathways/](http://hearinghealthmatters.org/pathways/)