Neuroaudiology Newsletter

May 2018

JUST IN TIME FOR GRADUATION!

Two members of the Neuroaudiology Lab will be graduating with their Doctor of Audiology (Au.D.) degrees on May 9th from the University of Arizona. Nicole Denny (pictured left) has spent the past year at Cincinnati Children’s Hospital for her fourth year externship and will continue on as a pediatric audiologist at Oakland Children’s Hospital!

Alyssa Everett (pictured right) has divided her time over the past year with research and an externship at the Southern Arizona Veteran’s Affairs Health Care Center and will continue working on her Ph.D. in Speech, Language, and Hearing Sciences at the University of Arizona with Dr. Nicole Marrone.

AUDIOLOGY TRIVIA!

Test your knowledge (Answers on last page):

1) The length of the internal auditory meatus in humans is about ___. a) 1 cm, b) 2cm, c) 3cm, d) 4cm

2) Which of the following turning fork tests require occluding the ear canal with one's finger? a) Weber, b) Bing, c) Rinne, d) none of these

3) Synaptic ribbons have been in the hearing science news lately. They are located in the ___? a) round window, b) inner hair cells, c) auditory nerve, d) brainstem auditory nuclei
Below are pictures featuring members of the Neuroaudiology Lab and international audiologists who regularly collaborate with Dr. Frank Musiek.

Pictured top left, Alyssa Everett, presenting on "A Review of Diagnostic Indices of the Middle Latency Response".

Pictured top right, Aaron Whiteley and Bryan Wong, presenting on "Planum Temporale: Morpho-logical Taxonomy of the Posterior Superior Temporal Plane".

Pictured above, Frank Musiek with an amazing team of Brazilian audiologists.

Pictured above, Liza Clark and Frank Musiek presenting on "Dichotic Listening with Auditory Hallucinations".

Pictured left, Frank Musiek with International audiologists at a post-AAA dinner celebration.
A VISIT TO THE UNIVERSITY OF CINCINNATI

Dr. Peter Scheifele and Dr. John Greer Clark of the University of Cincinnati hosted Frank Musiek’s recent visit to their department on April 23, 2018. Two days of research exchange regarding neuroanatomy, animal audiology, and neuroaudiology highlighted the visit. Dr. Scheifele teaches neuroanatomy to both med students and students in speech and hearing. He also directs the “Fetch Lab” – an audiology clinic for animals. At the visit’s end, a presentation entitled “The vertebro-basilar system: Its impact on audiology” was delivered by Dr. Musiek.

FEATURED SESSIONS AT AAA CONFERENCE

Frank Musiek, Gail Chermak, Doris Biamiou, and Jennifer Shinn presented a 3 hour invited featured session at AAA entitled “Perspectives on Hidden Hearing Loss: Beyond the Pure Tone Audiogram”. The sub topics included:

- Value/Limitations of the Audiogram—JS;
- Sources (e.g., OAD, KK, Cochlear Synaptopathy) of “Hidden Hearing Loss”—GC;
- Evidence for Cochlear Synaptopathy in Humans and Animals —DB;
- Revealing the Most Common Hidden Hearing Loss = CAPD—FM;
- Use of AEPs to Evaluate the CANS—DB;
- Concluding Comments — FM

Student Academy of Audiology Annual Symposium

“The ABR and MLR: Neurodiagnostic Insights to Central Auditory Disorder” was an invited presentation at the Student Academy of Audiology symposium at AAA by Frank Musiek. This forum provided a great venue for students to interact with clinicians and researchers in the field.

DID YOU KNOW???

The measurement of acoustic reflex latency was a popular research and clinical endeavor in the late 1970s and through the 1980s. However, more research, which is still needed, did not occur to drive this index into the clinical domain. It is surprising that this potentially valuable diagnostic measure has not received more research attention over the years.
PATHWAYS MEETING AT THE AAA 2018 CONFERENCE

The annual Pathways meeting took place at the American Academy of Audiology conference in Nashville, TN with over 80 attendees! Dr. Eliane Schochat, chair of the committee on CAPD test batteries gave her report of her survey regarding test batteries used by the Pathways membership. A total of 24 different tests were reported. There were, however, some common threads of tests that appeared in most test batteries. However, before useful statistics can be used, more reports need to be filed with Dr. Schochat. The membership is encouraged to respond to Eliane Schochat: eschocha@usp.br. Test batteries were divided between adult and pediatric and neurologically based and learning based CAPD. This seemed a reasonable division. Eliane will continue to collect and analyze data for this effort. Another issue of discussion was the use of electrophysiologic measures. This will be a target of discussion at the next Pathways meeting. Dr. Frank Musiek reported on continuing efforts to obtain CEUs for the educational part of the annual Pathways program. Hopefully by next year’s meeting CEUs will be in place.

Dr. Maria Abramson initiated the educational aspect of the pathways meeting by providing background of each of the three speakers. The presentations were well received with a hearty question and answer period for each. The presentations were Deborah Moncrieff, PhD, CCC–A, (Amblyaudia); Julianne Ceruti, AuD, PhD 1LT(P) MS USA (Decrement in Noise Test (DeNT): A Clinical Measure of Partially Filled Gap Detection Performance); Brian O’Hara, MD (The APDQ (CAPD Questionnaire)). Articles on these presentations can be seen on Pathways monthly articles series.

Topics and speakers for the next Pathways educational meeting was solicited and suggestions are encouraged from all members; send to Maria Abramson: frontdesk@hearnowoc.com

TRIVIA ANSWERS!

1) The length of the internal auditory meatus is about 1cm.
2) The tuning fork test that requires occluding the ear with one's finger is the Bing.
3) The synaptic ribbons are located in the inner hair cells.