

# CATSS at ASA 2018 Minneapolis

## MONDAY

**MONDAY, 1:00 P.M. TO 3:10 P.M., LAKESHORE A**

**Session 1pID: Interdisciplinary: Introductions to Technical Committees**

**2:50 pm - Benjamin Munson**

1pID12. It is like ESP without the E: An Introduction to the Speech Communication Technical Committee.

**MONDAY, 1:00 P.M. TO 5:35 P.M., NICOLLET D2**

**Session 1pPPa: Psychological and Physiological Acoustics and Signal Processing in Acoustics: Future Directions for Hearing Aids: Multi-Sensor, User-Informed, and Environment-Aware**

**1:40 pm - Trevor T. Perry, Peggy B. Nelson, and Danne VanTasell**

1pPPa3. Listener preferences and speech recognition outcomes using self-adjusted hearing aid amplification.

**2:20 pm - Hao Lu, Martin McKinney, Tao Zhang, and Andrew J. Oxenham**

1pPPa5. Tracking eye and head movements in natural conversational settings: Effects of hearing loss and background noise level.

**7:05 pm - Andrew J. Oxenham**

1eID1. Hearing loss and the future of auditory implants.

**MONDAY, 1:00 P.M. TO 5:00 P.M., NICOLLET A**

**Session 1pPPb: Psychological and Physiological Acoustics: Spectral, Pitch, and Physiological Measurements (Poster Session)**

**Bing Cheng, Yang Zhang, Keita Tanaka, Robert S. Schlauch, and Toshiaki Imada**

1pPPb2. Neural coding of perceptual temporal asymmetry for sounds with rising vs. falling intensity envelopes in non-attentive and attentive listening conditions.

**Evelyn E. Davies-Venn, Kristi Oeding, and Andrew Haug**

1pPPb13. The effects of carrier bandwidth and intensity on spectral ripple perception in listeners with hearing loss.

**Jackson Graves, Lesly Fornoni, Agathe Pralus, Andrew J. Oxenham, Anne Caclin, and Barbara Tillmann**

1pPPb18. Short- and long-term memory for pitch and non-pitch contours in congenital amusia.

**Anahita H. Mehta and Andrew J. Oxenham**

1pPPb19. Frequency difference limens as a function of fundamental frequency and harmonic number.

**Luodi Yu, Yang Zhang, Suiping Wang, and Jiajing Zeng**

1pPPb23. Late negative response revealed language-specific processing of word-level prosodic phonology in the adult brain.

**MONDAY, 7:00 P.M. TO 9:00 P.M., NICOLLET D2**

**Session 1eID: Interdisciplinary: Tutorial Lecture on Hearing Loss and the Future of Auditory Implants**

**7:05 pm - Andrew J. Oxenham**

1eID1. Hearing loss and the future of auditory implants.

## TUESDAY

**TUESDAY, 8:40 A.M. TO 12:00 P.M., NICOLLET D1**

**Session 2aSC: Speech Communication, Animal Bioacoustics, and Psychological and Physiological Acoustics: Adapting Methods and Models for Vocal Production Across Human and Non-Human Primate Species**

**9:05 am - Nisarg P. Desai, Clarence Lehman, Benjamin Munson, and Michael Wilson**

2aSC2. Supervised and unsupervised machine learning approaches to classifying chimpanzee vocalizations.

**11:00 am - Lisa R. O'Bryan, Benjamin Munson, and Michael Wilson**

2aSC7. Chimpanzee food-associated calls display low referential potential in a wild population.

**TUESDAY, 1:00 P.M. TO 5:00 P.M., NICOLLET A**

**Session 2pPPb: Psychological and Physiological Acoustics: Binaural Hearing and Psychoacoustic Methodology (Poster Session)**

**Steven P. Gianakas and Matthew Winn**

2pPPb22. Listening to degraded speech can cause listeners to “wait and see”.

**Tess K. Koerner and Yang Zhang**

2pPPb23. Differential effects of hearing loss on neural and behavioral measures of speech perception in noise.

**TUESDAY, 1:00 P.M. TO 4:00 P.M., NICOLLET A**

**Session 2pSC: Speech Communication: Clinical Populations (Poster Session)**

**Tzu-Ling J. Yu, Sarah J. Rosen, Benjamin Munson, and Robert S. Schlauch**

2pSC14. Developing finer-grained methods for analyzing word recognition performance by individuals with cochlear implants.

---

## WEDNESDAY

**WEDNESDAY, 7:55 A.M. TO 10:55 A.M., NICOLLET D2**

**Session 3aPPa: Physiology Meets Perception**

**10:25 - Matthew Winn**

3aPPa8. Dynamic allocation of listening effort when listening to speech

---

## THURSDAY

**THURSDAY, 7:55 A.M. TO 9:55 A.M., NICOLLET C**

**Session 4aAAa: Architectural Acoustics, Noise, ASA Committee on Standards, and Speech Communication: Acoustics in Classrooms and Other Educational Spaces**

**9:25 am - Sarah L. Bochat, Michael B. Doing, Peggy B. Nelson, Ana M. Jaramillo, and Bruce Olson**

4aAAa6. Multifunction speech intelligibility in a renovated historic room.

**THURSDAY, 8:00 A.M. TO 11:50 A.M., LAKESHORE B**

**Session 4aAB: Animal Bioacoustics: Animal Sound Production and Hearing**

**8:20 am - Edward J. Walsh, Peggy Nelson, Andrew Byrne, Jeff Marr, Christopher Feist, Christopher Milliren, Julia Ponder, Patrick Redig, and JoAnn McGee**

4aAB2. Calls of the bald eagle (*Haliaeetus leucocephalus*).

**10:50 am - Mark Bee, Norman Lee, and Jakob Christensen-Dalsgaard**

4aAB11. A frog's lungs sharpen the frequency tuning of its peripheral auditory system: A pulmonary paradox resolved?

**11:05 am - Saumya Gupta and Mark Bee**

4aAB12. Temporal information processing in gray treefrogs: Compute within frequency then integrate across frequency.

**11:20 am - Jessie C. Tanner and Mark Bee**

4aAB13. Within-individual variation in signal production limits female choice in noisy treefrog choruses.

**THURSDAY, 8:00 A.M. TO 11:35 A.M., NICOLLET D2**

**Session 4aPP: Psychological and Physiological Acoustics: Honoring Neal Viemeister's Contributions to Psychoacoustics**

**8:00 am - Chair's Introduction**

**8:05 am - Gregory H. Wakefield**

4aPP1. Temporal integration and multiple looks, revisited.

**8:25 am - Elizabeth A. Strickland**

4aPP2. Using psychoacoustics to examine a changing auditory system.

**8:45 am - Christopher J. Plack and Samuele Carcagno**

4aPP3. Effects of age and noise exposure on the representation of amplitude modulation.

**9:05 am - Brent Edwards**

4aPP4. Psychoacoustic considerations in hearing aid design and fitting.

**9:25 am - Magdalena Wojtczak**

4aPP5. Context effects in modulation masking.

**9:45–10:00 am - Break**

**10:00 am - Brian C. Moore**

4aPP6. Neal Viemeister's contributions to understanding the dynamic range of the auditory system.

**10:15 am - William Yost**

4aPP7. Loudness of an auditory scene.

**10:30 am - Christian Lorenzi**

4aPP8. The contribution of Neal Veimeister to the modulation theory of hearing.

**10:45 am - Emily Buss, John Grose, and Lori Leibold**

4aPP9. Amplitude modulation detection and modulation masking in school-age children and adults.

**11:00 am - Torsten Dau**

4aPP10. Predicting speech intelligibility based on the modulation spectrum and modulation frequency selectivity.

**11:15 am - Andrew J. Oxenham, Heather A. Kreft, and Lei Feng**

4aPP11. Auditory enhancement and other context effects in normal, impaired, and electric hearing.

**11:30–11:35 am - Panel Discussion**

**THURSDAY, 8:00 A.M. TO 12:00 NOON, NICOLLET A**

**Session 4aSC: Speech Communication: Perception and Processing of Voice and Speech  
(Poster Session)**

**Veera S. Vasandani, Molly E. Babel, and Benjamin Munson**

4aSC26. Investigating the influence of listener attitudes and expectations on the intelligibility of Hindi-influenced English.

**Lily Obeda and Benjamin Munson**

4aSC27. The perception of sexual orientation through speech: Generational change.

**McKalya Beaulieu, Emily Larson, and Benjamin Munson**

4aSC28. Gender typicality in children's speech, reconsidered: Effects of stimulus composition on listener judgments.

**THURSDAY, 1:00 P.M. TO 3:30 P.M., NICOLLET D2**

**Session 4pPPa: Psychological and Physiological Acoustics: Sound Localization, Spatial Release from Masking, and Binaural Hearing with Devices**

**2:30 pm - Coral Dirks, Peggy Nelson, and Andrew J. Oxenham**

4pPPa6. Using binaural beat sensitivity to explore mechanisms of bimodal temporal envelope beat sensitivity.

**4:30 pm - Kelly L. Whiteford and Andrew J. Oxenham**

4pPPc4. Complex frequency modulation detection and discrimination at low and high frequencies.

**THURSDAY, 1:00 P.M. TO 5:00 P.M., NICOLLET A**

**Session 4pSC: Speech Communication: Non-Native Speech Perception and Production  
(Poster Session)**

**Minkyung Choi, Jeffrey J. Holliday, and Benjamin Munson**

4pSC7. The influence of lexical characteristics and talker accent on the recognition of English words by speakers of Korean.

**Chieh Kao and Yang Zhang**

4pSC22. Cross-modality interference effects of phonetic and prosodic information in second language learners.

---

## **FRIDAY**

**FRIDAY, 8:00 A.M. TO 11:00 A.M., NICOLLET D2**

**Session 5aPP: Psychological and Physiological Acoustics: Examining the Auditory Brain**

**8:15 am - Yang Zhang, Zach Grice-Patil, Phillip Burton, and Cheryl Olman**

5aPP2. Neural mechanisms of selective listening to pitch and timbre in musical sounds.

**8:45 am - Coral Dirks, Anthony Shahin, Timothy Kwan, and Evelyn E. Davies-Venn**

5aPP4. Effect of musical training on EEG measures of spectro-temporal processing.

**10:30 am - Marion David and Andrew J. Oxenham**

5aPP10. Sequential stream segregation based on spatial cues: Behavioral and neural measurements.

**FRIDAY, 8:00 A.M. TO 12:00 NOON, NICOLLET A**

**Session 5aSC: Speech Communication: Speech Production  
(Poster Session)**

**Mara Logerquist, Hyuna A. Kim, Alisha B. Martell, Benjamin Munson, and Jan Edwards**

5aSC33. Growth in the accuracy of preschool children's /r/ production: Evidence from a Longitudinal Study.