



Student Council Suggested Talks for Students

177th Meeting of Acoustical Society of America
The Galt House, Louisville, KY

Monday, May 13

- 1aBAa: *Ultrasound Modeling Hands-on Workshop: Fast Object-oriented C++ Ultrasound Simulator (FOCUS)*, 8:30 – 10:30am, NUNN
- 1aPA1: *Artillery Location: Battlefield Acoustics in the First World War*, R Costley, 8:45am - 9:05am, JONES
- 1aSAb2: *Listening to the Songs of the Universe: How Vibration Control for the Laser Interferometer Gravitational-wave Observatory (LIGO)...*, Brian Lantz, 9:40am - 10:05am, COE
- 1aNS3: *Hospital design features related to patient experience*, Kenton Hummel, 9:45am – 10:05am, SEGELL
- 1aAO6: *Better together – Combining acoustics and environmental DNA to understand ecosystems*, Jennifer Miksis-Olds, 10:30am - 10:50am, WILLIS
- 1aSP7: *Continuous scan beamforming using a rotating microphone array for mapping of acoustic sources in a soundproof...*, Abe Lee, 11:00am - 11:15am, BECKHAM
- 1aAO8: *The measurement of ocean acidity using the depth-dependence of ambient noise*, David Barclay, 11:05am - 11:20am, WILLIS
- 1pSC4: *Specificity and generalization in perceptual adaptation to systematic variation in speech*, Lynne Nygaard, 2:05pm - 2:25pm, COMBS CHANDLER
- 1pUW4: *Scattering of focused beams by spheres: Understanding the high-frequency angular structure*, Timothy Daniel, 2:15pm – 2:30pm, MCCREARY
- 1pMU4: *Reproducing tonguing strategies in single-reed woodwinds using and artificial blowing machine*, Montserrat Pàmies-Vilà, 3:05pm – 3:25pm, BREATHITT
- 1pPP7: *Coping with the Black Swan in psychophysics*, Yi Shen, 3:10pm - 3:30 pm, CARROLL FORD
- 1pSC7: *Asymmetries in phonetic memory across voices and contexts*, Meghan Sumner, 3:25pm – 3:45pm, COMBS CHANDLER
- 1pBA7: *Dynamic Optical Coherence Elastography: Emerging Tool for Noninvasive Quantification of Mechanical Properties...*, Kirill Larin, 3:35 – 3:55pm, NUNN
- 1pMU5: *Imaging of transient and steady-state flow in organ pipes*, Thomas R. Moore, 3:40pm – 4:00pm, BREATHITT
- 1pSC11: *Talker variability, auditory attention, and speech processing efficiency*, Tyler Perrachione 4:55pm – 5:15pm, COMBS CHANDLER

Tuesday, May 14

- 2aNS1: *Structure-borne noise from a pool*, Felicia Doggett, 8:05am – 8:25am, SEGELL
- 2aSA2: *Evaluation of metamaterial unit cell analysis techniques*, Amanda Hanford, May 14th 8:20am – 8:40am, STOPHER
- 2aMU2: *The effect of axial vibrations on the input impedance of the trumpet*, Brooke Rodgers, 9:15am – 9:30am, BREATHITT
- 2aSCa5: *Daylong acoustic recordings of family and child speech using the HomeBank database*, Mark VanDam, 9:25am – 9:45am, COMBS CHANDLER
- 2aSPa9: *Distributed sensing for acoustic source localization in indoor reverberant environments*, Angela Bertolino, 10:15am - 10:30am, BECKHAM
- 2aSA11: *Experimental demonstration of an underwater acoustic leaky wave antenna* Michael Lee May 14th 11:00 Am – 11:15am STOPHER
- 2aSCb3: *Child-directed speech in noise: Listener- and environment-related changes in speech acoustics*, Nicholas Smith, 11:00am – 11:20am, COMBS CHANDLER
- 2pAB1: *The Evolution of Bat Robots* – Rolf Müller, 1:05pm – 1:25pm, CLEMENTS
- 2pBA3: *Remote Implantation of Ultrasound Responsive Multi-Cavity Microparticles for Early Atherosclerosis*, James Kwan, 1:40 - 1:55pm, NUNN
- 2pUW2: *Numerical investigation of the two-scale model for rough surface scattering*, Derek Olson, 1:45pm – 2:00pm, MCCREARY
- 2pAA4: *DePaul University - Holtschneider Performance Center*, Joseph Myers, 2:30pm – 2:50pm, FRENCH
- 2pPPb2: *Challenging standard practices in adaptive psychophysics*, Eric Hoover, 2:40pm-3:05pm, CARROLL FORD
- 2pNS5: *Soundscape for Smart Tourism in Macao*, Andy Chung, 3:10pm – 3:30pm, SEGELL
- 2pSP6: *A method to locate acoustic emission events induced by hydraulic fracturing using waveform correlation weighted by amplitude stacking*, Chengwei Zhang, 3:15pm - 3:30pm, BECKHAM
- 2pMU2: *The musical saw: musical acoustics of trapped vibrational modes in a curved blade*, Randy Worland, 3:20pm – 3:35pm, COMBS CHANDLER

2pPA9: *Direct detection of dark matter particles by nonlinear effects in crystal vibrations*, Igor Ostrovskii, 4:15pm - 4:30pm, JONES

Wednesday, May 15

3aSP2: *Bayesian inference when the physics is not quite right*, Allan Pierce, 8:55am - 9:15am, BECKHAM

3aBA1: *Photoacoustic Imaging in Cancer Medicine and Research: Systems, Results and Future Directions*, Jeffrey Bamber, 9:00 – 9:20am, NUNN

3aPP4: *The changing social context of speech perception: comparisons across age and time*, Benjamin Munson, 9:05am - 9:25am, CARROLL FORD

3aSP3: *Trans-dimensional geoacoustic inversion and uncertainty quantification for SBCEX17 data*, Stan Dosso, 9:15am - 9:35am, BECKHAM

3aBA5: *Towards Photoacoustic Sensing and Mapping of Neuroelectrical and Hemodynamic Activity*, Parag Chitnis, 10:35 – 10:55 am, NUNN

3aMU8: *Polyphonic pitch perception in rooms using deep learning networks with data rendered in auditory ...*, Nathan Keil, 10:40am – 10:55am, BREATHITT

3aSAb1: *Decreasing the radiated acoustic and vibration noise of autonomous underwater vehicles*, Gerald D'Spain, May 15th 10:50 am – 11:10 am, SEGELL

3aUW9: *Preliminary soundscape observations from a Colombian humpback whale breeding ground before port construction*, Kerri Seger, 11:15am – 11:30am, MCCREARY

3pAB2: *The Effects of Age and Sex on Rates of Hearing Loss for Pure Tones Varying in Duration*, Anastasiya Kobrina, 1:45pm – 2:00pm, CLEMENTS

3pAB3: *Arabian Horse Vocalization: A Brief Look at Romance*, David Browning, 2:00pm – 2:15pm, CLEMENTS

3pAA5: *A High-Resolution Goniometer to Measure Sound Diffraction Patterns*, Anthony Savino, 2:05pm – 2:20pm, FRENCH

3pPPa3: *Proactive neural processing of native and non-native speech*, Fernando Llanos, 2:15pm - 2:35 pm, CARROLL FORD

3pNS4: *Improved automated classification of basketball crowd noise*, Mylan Cook, 2:25pm – 2:45pm, SEGELL

3pPA8: *Overview of Acoustical Levitation for Volumetric Visual Displays*, Carl Andersson, 3:05pm - 3:20pm, JONES

Thursday, May 16

4aEA1: *Developments in underwater thermophones*, Nathanael Mayo, 8:00am-8:15am, WILLIS

4aSA1: *Power transmission metrics and applications in the design of quiet structures*, Kyle Myers, 8:00am – 8:15am, STOPHER

4aAA1: *Level of detail in room-acoustic simulation*, Michael Vorlaender, 8:20am – 8:40am, FRENCH

4aEA6: *A bio-inspired sound source localization sensor with internal coupling*, Haijun Liu, 9:15am-9:30am, WILLIS

4aNS3: *Soundprint and the ASA's International Noise Awareness Day campaign - results, what worked, and going forward*, Gregory Farber, 9:35am – 9:55am, SEGELL

4aAA5: *Use and Misuse of Auralization*, Wolfgang Ahnert, 9:40am – 10:00am, FRENCH

4aAB6: *Human Auditory Discrimination of Bottlenose Dolphin Signature Whistles Masked by Noise: Investigating Perceptual Strategies for Anthropogenic Noise*, Evan Morrison, 9:45am – 10:00am, CLEMENTS

4aSP6: *Improving autonomous vehicle safety - The use of convolutional neural networks for the detection of warning sounds*, Eoin King, 10:00am - 10:15am, BECKHAM

4aUW9: *Three-Dimensional Underwater Sound Pressure Sensitivity in Oceanic Environments*, Ying-Tsong Lin, 11:10am - 11:30am, MCCREARY

4aUW11: *Model-data comparison of sound propagation in a glacierized fjord with a variable ice top-boundary layer*, Matthew Zeh, 11:45am – 12:00pm, MCCREARY

4pPP3: *Consequences of auditory experience and cochlear implant stimulation on tuning and other measures obtained in prelingually deaf children...*, Julie Arenberg, 1:50pm - 2:05pm, CARROLL FORD

4pBAB2: *Acoustic Microstreaming due to an Oscillating Contrast Microbubbles near a Substrate: Velocity, Vorticity...*, Kausik Sarkar, 2:10 – 2:25pm, NUNN

4pAA4: *Current Trends in Binaural Auralization of Microphone Array Recordings*, 2:15pm – 2:35pm, FRENCH

4pPAa8: *Exploring the use of exploding oxy-acetylene balloons for field-scale infrasound*, Tracianne Neilsen, 3:00pm - 3:15pm, JONES

4pEA7: *Absorption measurement of acoustic materials using a spherical microphone array*, Samuel Dupont, 3:00pm-3:15pm, WILLIS

Friday, May 17

5aAB1: *The Characteristics of Song: An Overview for Marine Mammals*, John Hildebrand, 8:00am – 8:25am, CLEMENTS

5aPA1: *Sound speed measurements in Kentucky bourbon whiskey*, Stanley Cheyne, 8:15am - 8:30am, JONES

5aUW1: *Development of an in-air circular synthetic aperture sonar system as an educational tool*, Thomas Blanford, 9:00am – 9:15am, MCCREARY