



Student Council Suggested Talks for Students

188th Meeting of the Acoustical Society of America
25th International Congress on Acoustics
New Orleans Marriott Hotel, New Orleans, Louisiana

Architectural Acoustics (AA)

1aAAa10: Noise Control Solutions: Understanding Why To Create Better Solutions. Erik Miller-Klein, May 19, 10:25 - 10:45 am, GALERIE 3

2aAAa1: Does Virtual Reality Match Reality? Vocal Performance Across Environments. Pasquale Bottalico, May 20, 7:05 - 7:25 am, GALERIE 2

3aAAb5: Integrating acoustic and non-acoustic sensor data in a working office environment. Anat Grant, May 21, 10:40 - 11:00 am, GALERIE 2

Animal Bioacoustics (AB)

2pAB2: Automatic detection of acoustic signals off Svalbard using distributed acoustic sensing. Josephine Schulze, May 20, 1:40 - 2:00 pm, GALERIE 4.

4aAB6: Field demonstration of enhanced coral larvae settlement using acoustic enrichment, mesoscale artificial structures, and engineered biofilms. Océane Boulais, May 22, 9:20 - 9:40 am, GALERIE 4.

5aAB2: Acoustic behavior of endangered false killer whales (*Pseudorca crassidens*) using biologging devices in Hawai'i. Brijonny Madrigal, May 23, 8:20 - 8:40 am, GALERIE 4.

Acoustical Oceanography (AO)

1pAOa1: Modeled Physical Oceanography of the New England Sea Mounts during Summer 2024. John Osborne, May 19, 1:00 - 1:20 pm, STUDIOS 7/8

2pAO5: Shaping the acoustic field in the Gulf of Mexico: marine mammals linked to topography and oceanographic features. Alba Solsona Berga, May 20, 2:20 - 2:40 pm, STUDIOS 7/8

3aAO3: Bioacoustic attenuation spectroscopy in the Santa Barbara Channel and Yellow Sea: inference of anchovy parameters from broadband transmission loss measurements. Orest Diachok, May 21, 10:40 - 11:00 am, STUDIOS 9/10

Biomedical Acoustics (BA)

2aBAa4: Bubbles behaving badly – dose vs. threshold in cavitation classification. Eleanor Stride, May 20, 9:00 - 9:20 am, BALCONY L

3pBA3: The History of Single Bubble Sonoluminescence. Lawrence Crum, May 21, 1:40 - 2:00 pm, BALCONY K

4aBAa1: Modulating the (sympathetic) nervous system with anesthetic-loaded nanodroplets. Harriet Lea-Banks, May 22, 8:00 - 8:20am, BALCONY K

Computational Acoustics (CA)

1pCA2: Wideband acoustic simulation of anechoic chambers using a finite-difference method with porous media modeling. Jan Smits, May 19, 1:20 - 1:40 pm, STUDIO 6

2aCA5: Large-scale Aeroacoustic Simulation and Non-linear 1D Modeling of Bass-reflex Loudspeakers. Ryoya Tabata, May 20, 9:40 - 10:00 am, STUDIO 6

3aCA1: Parabolic models and computational approaches in high-power therapeutic ultrasound. Vera Khokhlova, May 21, 9:00 - 9:20 am, STUDIO 6

Engineering Acoustics (EA)

1pEA2: Measurement-based simulation in transcranial ultrasound therapies. Elly Martin, May 19, 1:40 - 2:00 pm, BALCONY N

2pEA9: Spider resonance frequency assessment using normal-incidence, transmission loss measurements. Spencer Neu, May 20, 4:00 - 4:20 pm, BALCONY N

4aEA2: Research and Development of an Open-Source Acoustic Camera. Jesse Kaye, May 22, 8:00 - 8:20 am, BALCONY N

Musical Acoustics (MU)

2pMUa1: How trumpet-like is female Broadway belting? Ingo Titze, May 20, 2:00 - 2:20 pm, GALERIE 6

4pMU2: Acoustic comparison of period instruments on piano. Masanobu Miura, May 22, 1:40 - 2:00 pm GALERIE 6

5pMU1: Perception of timbral changes in a violin due to humidity exposure. Andrew Piacsek, May 23, 1:00 - 1:20 pm GALERIE 6

Noise (NS)

3pNS3: Metamaterials application on low-height noise barrier for railways: challenges of real-world scenarios. Domenico De Salvio, May 21, 1:40 - 2:00 pm, GALERIE 5

4pNS7: The Sound of Pain: Exploring Health Impacts of Noise Exposure. Joanne Solet, May 22, 3:40 - 4:00 pm, GALERIE 5

3aNS2: Before the decibel – sound measurements – physical, aural, electrical. Noral Stewart, May 21, 9:40 - 10:00 am, GALERIE 5

Physical Acoustics (PA)

1pPAa6: Dynamics of High Frequency Bone Conducted Hearing. Charles Thompson, May 19, 2:40 - 3:00 pm, BALCONY I

2aPAa7: But it never goes to zero... Thomas Gabrielson, May 20, 10:20 - 10:40 am, BALCONY J

4aPAa4: From atmospheric infrasound to the crust and mantle: demonstrating subsurface inversion using balloon data. Marouchka Froment, May 22, 9:00 - 9:20 am, BALCONY J

Psychological and Physiological Acoustics (PP)

2pPP2: Embedding auditory cognitive tasks in realistic spatial contexts. G. Christopher Stecker. May 20, 1:20 - 1:40 pm, SALON F/G

4pPPa4: Language environment analysis precision in real-world and controlled environments. Rachael Pennock, May 22, 2:00 - 2:20 pm. SALON F/G

4pPPa6: Behavioral, computational, and electrophysiological measures of temporal envelope processing. Zenzele Thomas, May 22, 2:40 - 3:00 pm, SALON F/G

Structural Acoustics and Vibration (SA)

2aSA1: UnitcellHub: An Open-source Lattice Design Tool. Ryan Watkins, May 20, 8:00 - 8:20 am, BALCONY M

1pSA1: Acoustic source localization on a plate suspended at an air-water interface. Allison King, May 19, 1:00 - 1:20 pm, BALCONY M

2aSA3: A parametric study of metamaterial-based, acoustically insulating and ventilated louvers. Francesco Martellotta, May 20, 8:40 - 9:00 am, BALCONY M

2aSA2: The application of acoustic and elastic metamaterials into the building envelope. Andrew Hall, May 20, 8:20 - 8:40 am, BALCONY M

Speech Communication (SC)

3aSC1: Is speech processing faster for familiar talkers? Susannah Levi, May 21, 9:00 - 9:20am, SALON H

3aSC5: Situation-specific listening effort as a marker of speech perception success. Matthew Winn, May 21, 10:40 - 11:00 am, SALON H

3pSC1: AAVE in the courtroom: Speaker role influences speaker perceptions. Sharese King, May 21, 1:20 - 1:40 pm, SALON H

Signal Processing in Acoustics (SP)

1pSPb5: Loudspeaker parameterization using physics-informed transfer learning. Trent Furlong, May 19, 2:40 - 3:00 pm, SALON D

2pSPa8: Space Launch System time alignment methodology. David Gillespie, May 20, 3:40 - 4:00 pm, GALERIE 1

4pSPb1: Algorithms for universal acoustic mode filtering. Bhargabi Chakrabarti, May 22, 1:00 - 1:20 pm, STUDIOS 7/8

Underwater Acoustics (UW)

12aUW1: The Role of Bubbles in Ocean Ambient Sound: Measurement Techniques and Modeling Approaches from Whitecaps to Melting Glacier Ice. Grant Deane, May 20, 7:05 - 7:25 am, STUDIOS 9/10

4pUWb6: Acoustic communication and modeling in shallow water constrained environments. Jennifer Johnson, May 22, 5:00 - 5:20 pm, STUDIOS 9/10

5pUWb1: Acoustic propagation influenced by an anticyclonic eddy near Jan Mayen Island. Megan Ballard, May 23, 3:40 - 4:00 pm, STUDIO 6

Presentations by SURIEA Interns

1aAAb4: Investigating architectural acoustics modeling of Warner Theatre's rehearsal room. Dante Christian, May 19, 9:00 - 9:20 am, GALERIE 2

2aPP26: Speech Perception and Self-Efficacy in Adults Cochlear Implant Users. Jay Garcia, May 20, 8:00 - 11:00 am, STUDIO FOYER/STUDIOS 1, 2, 3, 4

2pSC5: Gamification: Virtual Medical Scenarios to Explore the Impact of Hospital Noise on Comprehension and Memory. Sarah White, May 20, 1:20 - 4:20 pm, STUDIO FOYER/STUDIOS 1, 2, 3, 4

2pSC14: Effects of low-pass filtering and visual cue availability on English consonant-in-noise recognition for late bilinguals and monolinguals. Sofia Hall, May 20, 1:20 - 4:20 pm, STUDIO FOYER/STUDIOS 1, 2, 3, 4

2pSA6: Evaluating the Relationship Between Print Speed and Acoustic Performance in Additively Manufactured Parts. Joshua Bakheet, May 20, 3:00 - 3:20 pm, BALCONY M

4aPP30: Lateral position discrimination using wavefield synthesis in an open environment to test the effect of observer-controlled motion on the ventriloquist effect. Anjelica Ferguson, May 22, 8:00 - 11:00 am, STUDIO FOYER/STUDIOS 1, 2, 3, 4