

TECHNICAL PROGRAM CALENDAR
183rd Meeting of the Acoustical Society of America
5—9 December 2022

Monday Morning, 5 December

- 8:20 1aAA **Architectural Acoustics:** Acoustical Challenges in Small Rooms I
8:45 1aAB **Animal Bioacoustics and Psychological and Physiological Acoustics:** Effects of COVID-19 on Animals and Soundscapes
8:00 1aAO **Acoustical Oceanography, Underwater Acoustics, and Animal Bioacoustics:** Shelfbreak Acoustics I
8:45 1aBA **Biomedical Acoustics:** 150th Anniversary Celebration of Paul Langevin: Inventor of Modern Ultrasound (Hybrid Session)
9:00 1aNS **Noise and Psychological and Physiological Acoustics:** Community Impacts Associated with Entertainment Sound
8:00 1aPA **Physical Acoustics and Biomedical Acoustics:** Acoustofluidics
9:00 1aSA **Structural Acoustics and Vibration:** Tunable Metamaterials
9:00 1aSP **Signal Processing in Acoustics:** Machine Learning in Signal Processing

Monday Afternoon, 5 December

- 1:20 1pAA **Architectural Acoustics:** Acoustical Challenges in Small Rooms II
1:00 1pAO **Acoustical Oceanography, Underwater Acoustics, and Animal Bioacoustics:** Shelfbreak Acoustics II
1:00 1pBA **Biomedical Acoustics:** General Topics in Biomedical Acoustics I: Assessment of Tissue Material Properties
1:00 1pCA **Computational Acoustics, Biomedical Acoustics, and Signal Processing in Acoustics:** Physics-Informed Artificial Intelligence/Machine Learning for Acoustics (Hybrid Session)
1:00 1pEA **Engineering Acoustics:** General Topics in Engineering Acoustics
1:00 1pMU **Musical Acoustics:** General Topics in Musical Acoustics I—Perception and Psychoacoustics
1:00 1pPA **Physical Acoustics:** General Topics Physical Acoustics I: Acoustic Manipulation and Atmospheric Propagation
1:00 1pSC **Speech Communication:** Methods and Instrumentation in Speech (Poster Session)
1:30 1pSP **Signal Processing in Acoustics:** Signal Processing in Acoustics Poster Session
4:00 1eID **Interdisciplinary:** Keynote Lecture

Tuesday Morning, 6 December

- 8:00 2aAAa **Architectural Acoustics, Noise, and ASA Committee on Standards:** Sound Transmission and Impact Noise in Buildings
9:00 2aAAb **Architectural Acoustics:** Student Design Competition (Poster Session)
8:30 2aAB **Animal Bioacoustics:** General Topics in Animal Bioacoustics I - Terrestrial
8:30 2aAO **Acoustical Oceanography, Underwater Acoustics, and Signal Processing in Acoustics:** Acoustical Remote Sensing, Navigation, and Passive Monitoring in the Polar Ocean I
8:30 2aBAa **Biomedical Acoustics, Computational Acoustics, and Signal Processing in Acoustics:** Deep Learning in Ultrasound Imaging and Tissue Characterization I
8:30 2aBAb **Biomedical Acoustics:** Look How Big You've Gotten! A Story of Droplets and Ultrasound I
9:00 2aCA **Computational Acoustics and Biomedical Acoustics:** Numerical Approaches for Complex Media and Geometries I

- 9:00 2aMU **Musical Acoustics:** General Topics in Musical Acoustics II–Sound Production and Radiation
- 8:00 2aNS **Noise and Psychological and Physiological Acoustics:** Methods for Community Noise Testing and Analysis I
- 8:00 2aPAa **Physical Acoustics, Structural Acoustics and Vibration, and Biomedical Acoustics:** Effective Medium Theories in Acoustics
- 9:15 2aPAb **Physical Acoustics and Structural Acoustics and Vibration:** Frontiers of Resonant Ultrasound Spectroscopy and Its Applications I
- 9:00 2aPP **Psychological and Physiological Acoustics:** Cochlear Implants and Computation. Grand Hall C
- 8:30 2aSA **Structural Acoustics and Vibration and Engineering Acoustics:** Additive Manufacturing and Acoustics
- 9:00 2aSC **Speech Communication, Architectural Acoustics, Noise, and Psychological and Physiological Acoustics:** Acoustics and Communication in Healthcare Settings (Hybrid Session)
- 8:00 2aSP **Signal Processing in Acoustics and Structural Acoustics and Vibration:** Active Control of Sound and Vibration (Hybrid Session)
- 8:00 2aUW **Underwater Acoustics and Acoustical Oceanography:** Mud Acoustics I

Tuesday Afternoon, 6 December

- 1:00 2pAA **Architectural Acoustics, Musical Acoustics, and Signal Processing in Acoustics:** Recording Studios (Hybrid Session)
- 1:00 2pAB **Animal Bioacoustics:** General Topics in Animal Bioacoustics II – Marine
- 1:00 2pAO **Acoustical Oceanography, Underwater Acoustics, and Signal Processing in Acoustics:** Acoustical Remote Sensing, Navigation, and Passive Monitoring in the Polar Ocean II
- 1:00 2pBAa **Biomedical Acoustics, Computational Acoustics, and Signal Processing in Acoustics:** Deep Learning in Ultrasound Imaging and Tissue Characterization II
- 1:15 2pBAb **Biomedical Acoustics:** Look How Big You've Gotten! A Story of Droplets and Ultrasound II
- 3:40 2pBAc **Biomedical Acoustics:** Tribute to Fellows and Award Winners of the BATC–2022
- 1:00 2pCA **Computational Acoustics and Biomedical Acoustics:** Numerical Approaches for Complex Media Geometries II
- 1:00 2pEA **Engineering Acoustics, Computational Acoustics, and Structural Acoustics and Vibration:** Automotive Acoustics (Hybrid Session)
- 1:00 2pID **Interdisciplinary and Student Council:** Graduate Programs in Acoustics Poster Session
- 1:00 2pNS **Noise and Psychological and Physiological Acoustics:** Methods for Community Noise Testing and Analysis II
- 1:00 2pPA **Physical Acoustics and Structural Acoustics and Vibration:** Frontiers of Resonant Ultrasound Spectroscopy and Its Applications II
- 1:00 2pPP **Psychological and Physiological Acoustics:** Speech and Pitch Perception
- 1:30 2pSA **Structural Acoustics and Vibration and Computational Acoustics:** Surrogate and Reduced-Order Modeling for Structural Acoustics Applications
- 1:00 2pSC **Speech Communication:** Healthcare Settings and Clinical Population (Poster Session)
- 1:00 2pSP **Signal Processing in Acoustics:** General Topics in Signal Processing
- 1:00 2pUW **Underwater Acoustics and Acoustical Oceanography:** Mud Acoustics II

Wednesday Morning, 7 December

- 9:00 3aAA **Architectural Acoustics, Noise, and Psychological and Physiological Acoustics:** Architectural Acoustics and Audio – Even Better Than the Real Thing I
- 8:30 3aAO **Acoustical Oceanography:** Acoustical Sensing of Ocean Turbulence, Mixing, and Stratification (Hybrid Session)
- 8:30 3aBA **Biomedical Acoustics:** Ultrasound Therapy in the Brain
- 8:00 3aCA **Computational Acoustics:** Learning and Stochastic Modeling in Computational Acoustics I

- 8:15 3aNS **Noise and Psychological and Physiological Acoustics:** Acoustics Design of Indoor and Outdoor Firing Ranges, and Protection from High Level Impulse Noise
- 8:00 3aPAa **Physical Acoustics and Computational Acoustics:** Infrasound I
- 8:20 3aPAb **Physical Acoustics and Education in Acoustics:** My Favorite Homework Problems (Based on Measurements, Demonstrations, or Experimental Data)
- 8:00 3aSA **Structural Acoustics and Vibration and Computational Acoustics:** Acoustic Metamaterials
- 8:00 3aSC **Speech Communication:** Speech Perception (Poster Session)
- 9:00 3aSP **Signal Processing in Acoustics:** Signal Processing for Musical Audio Production

Wednesday Afternoon, 7 December

- 1:00 3pAA **Architectural Acoustics, Noise, and Psychological and Physiological Acoustics:** Architectural Acoustics and Audio – Even Better Than the Real Thing II
- 1:00 3pBA **Biomedical Acoustics:** Modern Image Quality Assessment
- 1:00 3pCA **Computational Acoustics:** Learning and Stochastic Modeling in Computational Acoustics II
- 1:00 3pED **Education in Acoustics:** Acoustics Education Prize Lecture
- 2:15 3pID **Interdisciplinary:** Hot Topics in Acoustics
- 1:00 3pNS **Noise:** Topics on Noise: Noise Induced Hearing Loss and Community Noise
- 1:00 3pPAa **Physical Acoustics and Computational Acoustics:** Infrasound II
- 1:00 3pPAb **Physical Acoustics and Signal Processing in Acoustics:** Particle Velocity Sensing and Associated Signal Processing
- 1:00 3pPP **Psychological and Physiological Acoustics:** Psychological and Physiological Acoustics Poster Session I
- 1:00 3pSC **Speech Communication:** Topics in Speech Production
- 1:00 3pUW **Underwater Acoustics, Acoustical Oceanography, and Computational Acoustics:** Updating Ocean Acoustic Situational Awareness With In-situ Measurements

Thursday Morning, 8 December

- 8:30 4aAA **Architectural Acoustics and ASA Committee on Standards:** Show Your Data: Architectural Acoustics Metrics
- 8:00 4aAO **Acoustical Oceanography:** Topics in Acoustical Oceanography
- 9:00 4aBAa **Biomedical Acoustics:** Detection and Quantification of Bubble Activity in Therapeutic Ultrasound I
- 9:00 4aBAb **Biomedical Acoustics and Signal Processing in Acoustics:** Novel Ultrasound Beamforming Techniques and Their Applications I
- 9:00 4aMU **Musical Acoustics:** Modeling and Simulation of Physical Effects in Sound Reproduction
- 8:30 4aNS **Noise, Computational Acoustics, Physical Acoustics, Signal Processing in Acoustics, and Structural Acoustics and Vibration:** Jet and Launch Vehicle Noise I (Hybrid Session)
- 8:00 4aPAa **Physical Acoustics and Biomedical Acoustics:** Interaction of Light and Sound I (Hybrid Session)
- 9:00 4aPAb **Physical Acoustics:** General Topics in Physical Acoustics II
- 10:00 4aPP **Psychological and Physiological Acoustics:** Psychological and Physiological Acoustics Poster Session II
- 9:00 4aSAa **Structural Acoustics and Vibration:** Fluid Structure Interaction
- 10:30 4aSAb **Structural Acoustics and Vibration:** Analysis of Vibratory Systems
- 8:40 4aSC **Speech Communication and Psychological and Physiological Acoustics:** Bilingualism and the Brain
- 8:30 4aSP **Signal Processing in Acoustics:** Dispersive Wave Signal Processing I
- 8:00 4aUW **Underwater Acoustics and Acoustical Oceanography:** Memorial Session for Lisa Zurk I (Hybrid Session)

Thursday Afternoon, 8 December

- 1:30 4pBAa **Biomedical Acoustics and Signal Processing in Acoustics:** Novel Ultrasound Beamforming Techniques and Their Applications II
- 1:00 4pBAb **Biomedical Acoustics:** Detection and Quantification of Bubble Activity in Therapeutic Ultrasound II
- 1:00 4pCA **Computational Acoustics and Biomedical Acoustics:** Finite Difference Time Domain Methods Across Acoustics
- 1:00 4pED **Education in Acoustics:** Connecting Industry and Education (Hybrid Session)
- 1:00 4pNS **Noise, Computational Acoustics, Physical Acoustics, Signal Processing in Acoustics, and Structural Acoustics and Vibration:** Jet and Launch Vehicle Noise II (Hybrid Session)
- 1:00 4pPAa **Physical Acoustics:** Physical Acoustics Best Student Paper Competition
- 1:30 4pPAb **Physical Acoustics and Biomedical Acoustics:** Interaction of Light and Sound II (Hybrid Session)
- 1:00 4pSC **Speech Communication:** Bilingualism and Second Language Acquisition (Poster Session)
- 1:00 4pSP **Signal Processing in Acoustics:** Dispersive Wave Signal Processing II
- 1:00 4pUW **Underwater Acoustics and Acoustical Oceanography:** Memorial Session for Lisa Zurk II (Hybrid Session)

Friday Morning, 9 December

- 9:00 5aAA **Architectural Acoustics and Noise:** Sound with Context: Cultural Heritage Acoustics
- 8:30 5aAB **Animal Bioacoustics:** Mapping Acoustic Features to Production Mechanisms in Speech and Animal Communication
- 9:15 5aBA **Biomedical Acoustics:** General Topics in Biomedical Acoustics II: Imaging and Therapeutics
- 8:00 5aPA **Physical Acoustics and Biomedical Acoustics:** Ultrasonic Assessment of Properties in Complex Materials I
- 8:00 5aSC **Speech Communication:** Speech Production (Poster Session)
- 9:00 5aUW **Underwater Acoustics:** General Topics in Underwater Acoustics I

Friday Afternoon, 9 December

- 1:00 5pPA **Physical Acoustics and Biomedical Acoustics:** Ultrasonic Assessment of Properties in Complex Materials II
- 1:00 5pUW **Underwater Acoustics:** General Topics in Underwater Acoustics II