

TECHNICAL PROGRAM CALENDAR
184th Meeting of the Acoustical Society of America
8-12 May 2023

Please refer to the Itinerary Planner and Mobile App for Updated Information

Monday Morning

- 8:00 1aAA **Architectural Acoustics, Signal Processing in Acoustics, and Computational Acoustics:** Application of Statistical and Computational Methods in Building Acoustics. Chicago A/B
- 8:00 1aAB **Animal Bioacoustics, Acoustical Oceanography, Noise, Underwater Acoustics, and Signal Processing in Acoustics:** Climate Change and Sound: How the Sound of the Planet Reflects the Health of the Planet I (Hybrid Session). Chicago F/G
- 8:00 1aBAa **Biomedical Acoustics:** Ultrasound Brain and Super-Resolution Imaging I. Belmont
- 8:20 1aBAb **Biomedical Acoustics and Physical Acoustics:** Ultrasound Induced Cell Responses. Armitage
- 10:00 1aCA **Computational Acoustics, Architectural Acoustics, Musical Acoustics, and Physical Acoustics:** Real-Time Computing I (Hybrid Session). Lincolnshire 1/2
- 9:00 1aEA **Engineering Acoustics:** Acoustic Transducers, Devices, and Systems. Northwestern/Ohio State
- 9:00 1aMU **Musical Acoustics:** Musical Acoustics General Topics I. Indiana/Iowa
- 8:00 1aNS **Noise, Computational Acoustics, and Physical Acoustics:** Rocket Noise Part I. Chicago C
- 8:10 1aPA **Physical Acoustics:** Acoustic Remote Sensing in Urban Environments. Great America 1/2
- 8:00 1aPP **Psychological and Physiological Acoustics:** Psychological and Physiological Acoustics Poster Session I. Salon I
- 9:00 1aSA **Structural Acoustics and Vibration, Engineering Acoustics, Physical Acoustics, Signal Processing in Acoustics and Noise:** Acoustic Excitation of Structures I. Chicago H
- 8:30 1aSP **Signal Processing in Acoustics, Biomedical Acoustics, Underwater Acoustics, Physical Acoustics, and Architectural Acoustics:** Acoustical Imaging, Reconstruction, and Localization I: General Applications I (Hybrid Session). Purdue/Wisconsin

10:00 1aUW

Underwater Acoustics, Acoustical Oceanography and Physical Acoustics: Exploring Fine-Grained Sediments in the Variable Ocean I (Hybrid Session). Michigan/Michigan State

Monday Afternoon

- 1:00 1pAA **Architectural Acoustics, Musical Acoustics, and Noise:** Evaluation of Completed Performance Spaces: Goals and Methods. Chicago A/B
- 1:00 1pAB **Animal Bioacoustics, Acoustical Oceanography, Noise, Underwater Acoustics, and Signal Processing in Acoustics:** Climate Change and Sound: How the Sound of the Planet Reflects the Health of the Planet II (Hybrid Session). Chicago F/G
- 1:00 1pAO **Acoustical Oceanography:** Topics in Acoustical Oceanography. Indiana/Iowa
- 1:00 1pBAa **Biomedical Acoustics:** Ultrasound Brain and Super-Resolution Imaging II. Belmont
- 1:00 1pBAb **Biomedical Acoustics:** Ultrasound for Ocular Therapy. Armitage
- 1:00 1pCA **Computational Acoustics, Structural Acoustics and Vibration, and Physical Acoustics:** Computational Methods for Modeling Acoustic Damping. Lincolnshire 1/2
- 1:00 1pNS **Noise, Computational Acoustics, and Physical Acoustics:** Rocket Noise Part II. Chicago C
- 1:00 1pPA **Physical Acoustics, Biomedical Acoustics, and Engineering Acoustics:** Advances in Sonochemistry. Great America 1/2
- 1:00 1pSA **Structural Acoustics and Vibration, Engineering Acoustics, Physical Acoustics, Signal Processing in Acoustics and Noise:** Acoustic Excitation of Structures II. Chicago H
- 1:00 1pSC **Speech Communication:** Speech Perception I (Poster Session). Salon I
- 1:00 1pSP **Signal Processing in Acoustics, Biomedical Acoustics, Underwater Acoustics, Physical Acoustics, and Architectural Acoustics:** Acoustical Imaging, Reconstruction, and Localization II: General Applications II (Hybrid Session). Purdue/Wisconsin

- 1:00 1pUW **Underwater Acoustics, Acoustical Oceanography and Physical Acoustics:** Exploring Fine-Grained Sediments in the Variable Ocean II (Hybrid Session). Michigan/Michigan State
- 4:00 1eID **Interdisciplinary:** Keynote Lecture. Salon II

Tuesday Morning

- 8:00 2aAA **Architectural Acoustics, Noise, ASA Committee on Standards, and Structural Acoustics and Vibration:** Classroom Acoustics I (Hybrid Session). Denver/Houston/Kansas City
- 8:00 2aAB **Animal Bioacoustics, Psychological and Physiological Acoustics, and Signal Processing in Acoustics:** Session in Honor of James A. Simmons I (Hybrid Session). Great America 1/2
- 8:30 2aAO **Acoustical Oceanography, Underwater Acoustics, and Signal Processing:** Memorial Session for Jeffrey A. Nystuen I (Hybrid Session). Michigan/Michigan State
- 7:40 2aBAa **Biomedical Acoustics and Physical Acoustics:** Clinical Perspective of Biomedical Acoustics I (Hybrid Session). Armitage
- 8:00 2aBAb **Biomedical Acoustics, Engineering Acoustics, and Physical Acoustics:** New Technology Developments for use in Focused Ultrasound Therapy I. Belmont
- 10:05 2aCA **Computational Acoustics, Architectural Acoustics, Musical Acoustics, and Physical Acoustics:** Real-Time Computing II (Hybrid Session). Lincolnshire 1/2
- 9:00 2aEA **Engineering Acoustics, Signal Processing in Acoustics, Noise, Underwater Acoustics, Architectural Acoustics, and Physical Acoustics:** Microphones: Design, Development, and Characterization I. Northwestern/Ohio State
- 7:40 2aMU **Musical Acoustics:** Musical Acoustics General Topics II. Lincolnshire 1/2
- 7:45 2aNS **Noise:** Assorted Topics on Noise. Chicago C
- 8:00 2aPAa **Physical Acoustics and Structural Acoustics and Vibration:** Acoustics and Elasticity of Consolidated and Unconsolidated Granular Materials I (Hybrid Session). Chicago F/G
- 9:45 2aPAb **Physical Acoustics, Education in Acoustics, and Structural Acoustics and Vibration:** Acoustics Demonstration Extravaganza. Chicago A/B
- 7:55 2aPP **Psychological and Physiological Acoustics:** David Green and Psychoacoustics (Hybrid Session). Indiana/Iowa

- 8:00 2aSA **Structural Acoustics and Vibration, Engineering Acoustics, Physical Acoustics, and Computational Acoustics:** Acoustic Metamaterials I. Chicago H
- 9:00 2aSC **Speech Communication and Psychological and Physiological Acoustics:** Clear Speech(es) Across People, Places, and Time I. Los Angeles/Miami/Scottsdale
- 8:40 2aSP **Signal Processing in Acoustics:** Signal Processing Potpourri. Purdue/Wisconsin

Tuesday Afternoon

- 1:35 2pAA **Architectural Acoustics, Noise, ASA Committee on Standards, and Structural Acoustics and Vibration:** Classroom Acoustics II (Hybrid Session). Denver/Houston/Kansas City
- 1:00 2pAB **Animal Bioacoustics, Psychological and Physiological Acoustics, and Signal Processing in Acoustics:** Session in Honor of James A. Simmons II (Hybrid Session). Great America 1/2
- 1:30 2pAOa **Acoustical Oceanography:** Acoustical Oceanography Prize Lecture. Chicago A/B
- 2:40 2pAOb **Acoustical Oceanography, Underwater Acoustics, and Signal Processing:** Memorial Session for Jeffrey A. Nystuen II (Hybrid Session). Michigan/Michigan State
- 1:00 2pBAa **Biomedical Acoustics and Physical Acoustics:** Clinical Perspective of Biomedical Acoustics II (Hybrid Session). Armitage
- 1:00 2pBAb **Biomedical Acoustics, Engineering Acoustics, and Physical Acoustics:** New Technology Developments for use in Focused Ultrasound Therapy II. Belmont
- 1:00 2pCA **Computational Acoustics, Structural Acoustics and Vibration, Noise, Musical Acoustics, Physical Acoustics, and Acoustical Oceanography:** Wind Acoustics. Lincolnshire 1/2
- 1:00 2pEA **Engineering Acoustics, Signal Processing in Acoustics, Noise, Underwater Acoustics, Architectural Acoustics, and Physical Acoustics:** Microphones: Design, Development, and Characterization II. Northwestern/Ohio State
- 1:00 2pED **Education in Acoustics, Physical Acoustics, Noise, Architectural Acoustics, and Engineering Acoustics:** Assessment of Acoustics Education. Indiana/Iowa
- 4:30 2pMU **Musical Acoustics:** Concert Session: Harp Duo Julie Spring and Ellie Kirk. Chicago A/B

- 1:00 2pNS **Noise:** Incorporating Tones in Noise Criteria. Chicago C
- 1:00 2pPA **Physical Acoustics, Biomedical Acoustics, Structural Acoustics and Vibration, and Engineering Acoustics:** Interaction of Electromagnetic Waves with Acoustic Waves. Chicago F/G
- 1:00 2pPP **Psychological and Physiological Acoustics:** Best Student Paper Award: Psychological and Physiological Acoustics (Poster Session). Salon I
- 1:00 2pSA **Structural Acoustics and Vibration, Engineering Acoustics, Physical Acoustics, and Computational Acoustics:** Acoustic Metamaterials II. Chicago H
- 1:00 2pSCa **Speech Communication and Psychological and Physiological Acoustics:** Clear Speech(es) Across People, Places, and Time II (Poster Session). Salon I
- 1:00 2pSCb **Speech Communication:** Speech in Different Listening Conditions (Poster Session). Salon I
- 1:00 2pSP **Signal Processing in Acoustics and Computational Acoustics:** Feature Extraction, Dimensionality Reduction, and Learning in Ocean Acoustics. Purdue/Wisconsin
- 8:00 3aNS **Noise, Architectural Acoustics, Acoustical Oceanography, Engineering Acoustics, and Underwater Acoustics:** Post Pandemic Soundscapes Part I (Hybrid Session). Chicago C
- 8:25 3aPA **Physical Acoustics and Structural Acoustics and Vibration:** Acoustics and Elasticity of Consolidated and Unconsolidated Granular Materials II (Hybrid Session). Chicago F/G
- 8:00 3aPP **Psychological and Physiological Acoustics and Speech Communication:** Sensory and Non-Sensory Influences on Auditory Development. Chicago A/B
- 8:30 3aSA **Structural Acoustics and Vibration, Physical Acoustics, and Engineering Acoustics:** Historical Perspectives in Structural Acoustics (Hybrid Session). Chicago H
- 8:00 3aSC **Speech Communication and Education in Acoustics:** Infusing Social Justice in Speech and Hearing Acoustics Pedagogy: Principles and Case Studies (Hybrid Session). Los Angeles/Miami/Scottsdale
- 8:00 3aSP **Signal Processing in Acoustics, Education in Acoustics, and Physical Acoustics:** My Favorite Signal Processing Homework Problems. Purdue/Wisconsin

Wednesday Morning

- 8:00 3aAA **Architectural Acoustics, Noise, ASA Committee on Standards, Engineering Acoustics, and Structural Acoustics and Vibration:** Application and Development of Standards Used in Noise and Architectural and Structural Acoustics. Denver/Houston/Kansas City
- 8:00 3aABa **Animal Bioacoustics:** Acoustic Ecology and Biological Soundscapes. Great America 1/2
- 10:30 3aABb **Animal Bioacoustics:** Animal Vocal Communication and Physiology. Great America 1/2
- 8:00 3aBAa **Biomedical Acoustics:** Lung Ultrasound. Belmont
- 8:00 3aBAb **Biomedical Acoustics and Education in Acoustics:** Best Practices in Mentoring for Biomedical Acousticians. Armitage
- 8:45 3aCA **Computational Acoustics:** Topics in Computational Acoustics. Lincolnshire 1/2
- 9:00 3aEA **Engineering Acoustics, Signal Processing in Acoustics, Biomedical Acoustics, Physical Acoustics, and Underwater Acoustics:** Additive Manufacturing of Acoustic Transducers. Northwestern/Ohio State
- 8:40 3aMU **Musical Acoustics:** Acoustics of Stringed Instruments. Indiana/Iowa

Wednesday Afternoon

- 1:00 3pAA **Architectural Acoustics:** Hot Topics: Measuring Acoustic Properties and Beyond. Denver/Houston/Kansas City
- 1:00 3pAB **Animal Bioacoustics:** General Topics in Animal Bioacoustics. Great America 1/2
- 1:00 3pBAb **Biomedical Acoustics:** Biomedical Acoustics Student Paper Competition. Salon I
- 1:00 3pCA **Computational Acoustics, Architectural Acoustics, Physical Acoustics, Underwater Acoustics, Structural Acoustics and Vibration, and Engineering Acoustics:** Boundary Conditions Across Acoustics. Lincolnshire 1/2
- 1:00 3pED **Education in Acoustics:** Acoustics Education Prize Lecture. Armitage
- 1:00 3pID **Interdisciplinary:** Hot Topics in Acoustics. Northwestern/Ohio State

1:00	3pMU	Musical Acoustics, Signal Processing in Acoustics, and Physical Acoustics: Music Synthesis Techniques Applied to Sound Design and Sonification (Hybrid Session). Indiana/Iowa			Acoustics: Showcases of HPC Across Acoustics I. Lincolnshire 1/2
1:00	3pNS	Noise, Architectural Acoustics, Acoustical Oceanography, Engineering Acoustics, and Underwater Acoustics: Post Pandemic Soundscapes Part II (Hybrid Session). Chicago C	8:00	4aED	Education in Acoustics, Physical Acoustics, Architectural Acoustics, and Noise: When Doing it Right Goes Wrong. Great America 1/2
1:00	3pPAa	Physical Acoustics and Structural Acoustics and Vibration: Acoustics and Elasticity of Consolidated and Unconsolidated Granular Materials III (Hybrid Session). Chicago F/G	8:05	4aNSa	Noise: Aircraft Noise. Chicago C
1:00	3pPAb	Physical Acoustics: Ultrasound: Radiation Force and Spectroscopy. Los Angeles/ Miami/Scottsdale	10:00	4aNSb	Noise and Architectural Acoustics: Flanking Paths: Finding them, Solving Them and Improvement in ASTC When You Do. Chicago C
1:30	3pPP	Psychological and Physiological Acoustics: Auditory Neuroscience Prize Lecture. Chicago A/B	8:05	4aPAa	Physical Acoustics, Engineering Acoustics, and Structural Acoustics and Vibration: Acoustic Sensing in Planetary Environments. Chicago F/G
1:00	3pSA	Structural Acoustics and Vibration, Engineering Acoustics, Physical Acoustics, Noise, and Computational Acoustics: Real World Case Studies for Damping. Chicago H	9:00	4aPAb	Physical Acoustics: General Physical Acoustics I: Time Reversal Technique and Source Characterization. Los Angeles/ Miami/Scottsdale
1:00	3pSP	Signal Processing in Acoustics, Biomedical Acoustics, Underwater Acoustics, Physical Acoustics, and Architectural Acoustics: Acoustical Imaging, Reconstruction, and Localization III: Biomedical Acoustics (Hybrid Session). Purdue/Wisconsin	8:00	4aPP	Psychological and Physiological Acoustics and Speech Communication: Perception Beyond Tones and Speech in Normal and Impaired Hearing: Voice, Emotions, and Music Perception. Indiana/Iowa
1:30	3pUW	Underwater Acoustics: General Topics in Underwater Acoustics: Calibration and Laboratory Measurements. Michigan/ Michigan State	10:00	4aSA	Structural Acoustics and Vibration: General Topics in Structural Acoustics. Chicago H
Thursday Morning			8:00	4aSC	Speech Communication: Speech Production I (Poster Session). Salon I
8:20	4aAA	Architectural Acoustics, Signal Processing in Acoustics, Computational Acoustics, Physical Acoustics, Structural Acoustics and Vibration, and Noise: Artificial Intelligence and Machine Learning. Chicago A/B	8:30	4aSP	Signal Processing in Acoustics, Biomedical Acoustics, Underwater Acoustics, Physical Acoustics, and Architectural Acoustics: Acoustical Imaging, Reconstruction, and Localization IV: Underwater Applications (Hybrid Session). Purdue/Wisconsin
8:00	4aBAa	Biomedical Acoustics, Engineering Acoustics, Physical Acoustics, and Signal Processing in Acoustics: Advances in Elastography I. Belmont	8:30	4aUW	Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, Physical Acoustics and Engineering Acoustics: Acoustic Methods for Unmanned Mobile Platforms: Sensing, Localization and Communications I. Michigan/Michigan State
8:30	4aBAb	Biomedical Acoustics, Signal Processing in Acoustics, Physical Acoustics: Making and Using Cavitation Images for Therapeutic Ultrasound I. Armitage	Thursday Afternoon		
9:00	4aCA	Computational Acoustics, Structural Acoustics and Vibration, Physical Acoustics, Signal Processing in Acoustics, Musical Acoustics, Underwater Acoustics, Engineering Acoustics, and Biomedical	1:10	4pAA	Architectural Acoustics, Noise, ASA Committee on Standards, and Engineering Acoustics: Sound Data for Sound Design. Chicago A/B
			1:00	4pAB	Animal Bioacoustics: Contributions of Expert Subjects to Animal Bioacoustics. Great America 1/2
			1:30	4pBAa	Biomedical Acoustics, Engineering Acoustics, Physical Acoustics, and Signal Processing in Acoustics: Advances in Elastography II. Belmont

1:30	4pBAb	Biomedical Acoustics, Signal Processing in Acoustics, and Physical Acoustics: Making and Using Cavitation Images for Therapeutic Ultrasound II. Armitage	2:00	4pSC	Speech Communication: Speech Perception II - Bilingualism and Second Language Acquisition (Poster Session). Salon I
1:30	4pCA	Computational Acoustics, Structural Acoustics and Vibration, Physical Acoustics, Signal Processing in Acoustics, Musical Acoustics: Showcases of HPC Across Acoustics II. Lincolnshire 1/2	1:30	4pUW	Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, Physical Acoustics and Engineering Acoustics: Acoustic Methods for Unmanned Mobile Platforms: Sensing, Localization, and Communications II. Michigan/Michigan State
1:30	4pEA	Engineering Acoustics, Signal Processing in Acoustics, Physical Acoustics, Architectural Acoustics, Underwater Acoustics: Acoustic Measurement in Extreme Environments. Purdue/Wisconsin	Friday Morning		
1:30	4pID	Interdisciplinary and Student Council: Guidance From the Experts: Applying for Grants and Fellowships. Indiana/Iowa	8:00	5aAA	Architectural Acoustics: Heavy-Handed Recommendations: When Less is More. Chicago A/B
1:00	4pMUa	Musical Acoustics: Acoustics of Percussion Instruments. Denver/Houston/Kansas City	7:30	5aBAa	Biomedical Acoustics: General Topics in Biomedical Acoustics: QUS and Beamforming. Northwestern/Ohio State
4:20	4pMUb	Musical Acoustics: Acoustics of Percussion Instruments Steelpan Ensemble Performance. Los Angeles/Miami/Scottsdale	7:30	5aBAb	Biomedical Acoustics: General Topics in Biomedical Acoustics: Bubbles and More. Purdue/Wisconsin
1:00	4pNS	Noise Engineering Acoustics, Computational Acoustics, Structural Acoustics and Vibration, and Physical Acoustics: Validation of Environmental Noise Modeling. Chicago C	9:00	5aED	Education in Acoustics, Physical Acoustics, Engineering Acoustics, and Musical Acoustics: Resources for Teaching Waves in a Physics Class (Hybrid Session). Lincolnshire 1/2
1:30	4pPA	Physical Acoustics: Acoustic Propagation Effects. Chicago F/G	9:00	5aPA	Physical Acoustics: General Physical Acoustics II: Application, Measurements, and Novel Effects. Chicago F/G
1:00	4pPP	Psychological and Physiological Acoustics: Psychological and Physiological Acoustics Poster Session II. Salon I	8:00	5aPP	Psychological and Physiological Acoustics and Speech Communication: Environmental Sounds: Perception, Cognition, Applications. Indiana/Iowa
1:30	4pSA	Structural Acoustics and Vibration, Education in Acoustics, Physical Acoustics, and Engineering Acoustics: Tutorial on Structural Acoustics and Vibration. Chicago H	8:00	5aSC	Speech Communication: Speech Production II - Speech Articulation Sociophonetics (Poster Session). Salon I
			8:20	5aUW	Underwater Acoustics: General Topics in Underwater Acoustics. Michigan/Michigan State