

TECHNICAL PROGRAM CALENDAR
178th Meeting of the Acoustical Society of America
2–6 December 2019

MONDAY MORNING

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| | | | 1:15 | 1pBA | Biomedical Acoustics and Physical Acoustics: Cavitation Nuclei: Bubbles, Droplets, and More II. Hanover |
| 9:45 | 1aAA | Architectural Acoustics and Noise: Sustainable Acoustics for Smart Cities. Windsor | | | |
| | | | 1:45 | 1pMUa | Musical Acoustics: Asian Musical Instruments. Coronet |
| 9:00 | 1aAB | Animal Bioacoustics: General Topics in Animal Bioacoustics I. Edison | 4:30 | 1pMUb | Musical Acoustics: Concert: Musical Traditions of Thailand. Coronet |
| 8:15 | 1aAO | Acoustical Oceanography and ASA Committee on Standards: Observational Acoustical Oceanography: A Look at Enabling Technology from Academia and Industry I. Empress | 1:15 | 1pNS | Noise and Physical Acoustics: Quiet Supersonic Flights 2018 II. Continental/Crystal |
| 8:15 | 1aBAa | Biomedical Acoustics: Ultrasound Modeling Workshop - HITU Simulator. Coronet | 1:15 | 1pPA | Physical Acoustics: General Topics in Physical Acoustics II. Wilder |
| 10:00 | 1aBAb | Biomedical Acoustics and Physical Acoustics: Cavitation Nuclei: Bubbles, Droplets, and More I. Hanover | 1:00 | 1pSA | Structural Acoustics and Vibration, Physical Acoustics, and Signal Processing in Acoustics: Acoustic Metamaterials. Spreckles |
| 9:15 | 1aNS | Noise and Physical Acoustics: Quiet Supersonic Flights 2018 I. Continental/Crystal | 1:15 | 1pSC | Speech Communication: Self-Perception in Speech Production. Crown |
| 9:00 | 1aPA | Physical Acoustics: General Topics in Physical Acoustics I. Wilder | 1:00 | 1pSP | Signal Processing in Acoustics, Architectural Acoustics, and Noise: Signal Processing for Architectural Acoustics and Noise Control II. Regent |
| 8:45 | 1aSA | Structural Acoustics and Vibration: Acoustics of 3D-Printed Materials and Structures. Spreckles | 1:00 | 1pUWa | Underwater Acoustics: Scattering and Reflection. Viceroy |
| 9:00 | 1aSC | Speech Communication: Universal and Experiential Influences on Phonetic Perception. Crown | 3:15 | 1pUWb | Underwater Acoustics: Detection, Classification, and Noise. Viceroy |
| 9:45 | 1aSP | Signal Processing in Acoustics, Architectural Acoustics, and Noise: Signal Processing for Architectural Acoustics and Noise Control I. Regent | | | |
| 9:00 | 1aUW | Underwater Acoustics: Underwater Acoustic Data Communication. Viceroy | | | |

MONDAY AFTERNOON

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| 1:00 | 1pAA | Architectural Acoustics, Noise, Structural Acoustics and Vibration, and ASA Committee on Standards: Sound Transmission and Impact Noise in Buildings. Windsor |
| 1:30 | 1pAB | Animal Bioacoustics: General Topics in Animal Bioacoustics II. Edison |
| 1:15 | 1pAO | Acoustical Oceanography and ASA Committee on Standards: Observational Acoustical Oceanography: A Look at Enabling Technology from Academia and Industry II. Empress |

MONDAY EVENING

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| 7:00 | 1eID | Interdisciplinary: Tutorial Lecture on Effective Media Interactions Training Workshop. Regent |
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TUESDAY MORNING

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| 8:00 | 2aAA | Architectural Acoustics and Computational Acoustics: Computational Acoustics for Architectural Applications. Windsor |
| 8:00 | 2aAB | Animal Bioacoustics and Acoustical Oceanography: Low-Frequency Sound Production and Passive Acoustic Monitoring I. Edison |
| 8:30 | 2aAOa | Acoustical Oceanography and Underwater Acoustics: Session in Honor of Michael Buckingham I. Empress |
| 11:00 | 2aAOB | Acoustical Oceanography: Acoustical Oceanography Prize Lecture. Empress |
| 8:00 | 2aBAa | Biomedical Acoustics: Application of Quantitative Ultrasound in vivo in Humans I. Garden |

9:00	2aBAb	Biomedical Acoustics and Signal Processing in Acoustics: High Frame Rate Ultrasound Imaging: Technical Developments and Clinical Applications I. Hanover	1:30	2pAB	Animal Bioacoustics and Acoustical Oceanography: Low-Frequency Sound Production and Passive Acoustic Monitoring II. Edison
7:45	2aEA	Engineering Acoustics and Structural Acoustics and Vibration: Acoustical Engineering in Consumer Electronics. Stuart	1:15	2pAO	Acoustical Oceanography and Underwater Acoustics: Session in Honor of Michael Buckingham II. Empress
7:45	2aEDa	Education in Acoustics, Student Council, and Women in Acoustics: Mentoring Graduate and Undergraduate Students. Carousel	1:15	2pBAa	Biomedical Acoustics and Signal Processing in Acoustics: High Frame Rate Ultrasound Imaging: Technical Developments and Clinical Applications II. Hanover
11:00	2aEDb	Education in Acoustics: Acoustics Education Prize Lecture. Carousel	1:15	2pBAb	Biomedical Acoustics: Application of Quantitative Ultrasound in vivo in Humans II. Garden
8:00	2aMU	Musical Acoustics: Experimental Methods in Musical Acoustics: Best Practices. Coronet	1:15	2pEA	Engineering Acoustics: Engineering Acoustics Mixtape: Microfluidics, Arrays, Pipes, Ducts, and Damping. Stuart
8:30	2aNsa	Noise, Animal Bioacoustics and Underwater Acoustics: Effects on People and Wildlife from Transportation Noise (Land, Air, Sea), as Well as Innovative Solutions for Reducing Noise. Crystal	1:00	2pIDa	Interdisciplinary and Student Council: Guidance From the Experts: Applying for Grants and Fellowships. Carousel
8:30	2aNSb	Noise: Outdoor Entertainment Noise. Continental	2:40	2pIDb	Interdisciplinary: Introduction to Technical Committees. Carousel
7:45	2aPA	Physical Acoustics, Structural Acoustics and Vibration, and Computational Acoustics: Design of Acoustics Metamaterials: Optimization and Machine Learning I. Wilder	1:00	2pNSa	Noise, Architectural Acoustics, and ASA Committee on Standards: Current Trends and Advancements in Applying Acoustics to Smart Cities. Continental/Crystal
9:00	2aPP	Psychological and Physiological Acoustics: Current Topics in Physiological and Psychological Acoustics (Poster Session). Crown	3:00	2pNSb	Noise: General Noise Session. Continental/Crystal
8:45	2aSA	Structural Acoustics and Vibration and Noise: Flow-Induced Vibration and Noise. Spreckles	1:30	2pPA	Physical Acoustics, Structural Acoustics and Vibration, and Computational Acoustics: Design of Acoustics Metamaterials: Optimization and Machine Learning II. Wilder
9:00	2aSC	Speech Communication: Second-Language Acquisition and Bilingualism (Poster Session). Crown	1:15	2pPPa	Psychological and Physiological Acoustics and Speech Communication: Open Source Audio Processing Tools for Hearing Research I. Coronet
8:00	2aSP	Signal Processing in Acoustics: General Topics in Signal Processing II. Regent	3:15	2pPPb	Psychological and Physiological Acoustics and Speech Communication: Open Source Audio Processing Tools for Hearing Research II (Demonstrations). Crown
8:00	2aUW	Underwater Acoustics, Acoustical Oceanography, and Signal Processing in Acoustics: Comprehensive Nuclear-Test-Ban Treaty International Monitoring System Global Sensor Network: Scientific Aspects and Civil Applications. Viceroy	1:15	2pSA	Structural Acoustics and Vibration: Characterization and Analysis of System Properties. Spreckles
			1:00	2pSP	Signal Processing in Acoustics, Animal Bioacoustics, Underwater Acoustics, Acoustical Oceanography, and Speech Communication: Signal Processing for Biological Transients. Regent
TUESDAY AFTERNOON					
1:00	2pAA	Architectural Acoustics and Musical Acoustics: Large Music Rehearsing Spaces. Windsor	1:00	2pUW	Underwater Acoustics: Propagation and Sound Generation Physics and Modeling. Viceroy

WEDNESDAY MORNING

- 8:00 3aAA **Architectural Acoustics:** Assembly Space Renovation Challenges I. Windsor
- 8:00 3aAB **Animal Bioacoustics:** Urban Noise: Its Effects on Animals' Acoustic Communication. Edison
- 8:00 3aAO **Acoustical Oceanography and Animal Bioacoustics:** Bioacoustics and Acoustical Oceanography: 20 Years Later I. Empress
- 7:55 3aBA **Biomedical Acoustics:** New Frontiers in Doppler Ultrasound. Garden
- 8:00 3aCA **Computational Acoustics, Structural Acoustics and Vibration, and Signal Processing in Acoustics:** Application of Model Reduction in Computational Acoustics. Stuart
- 8:30 3aED **Education in Acoustics:** Hands-On Demonstrations for Middle- and High-School Students. Carousel
- 9:00 3aMU **Musical Acoustics:** General Topics in Musical Acoustics I. Coronet
- 7:55 3aNS **Noise and ASA Committee on Standards:** Community Noise. Continental/Crystal
- 9:15 3aPA **Physical Acoustics and Engineering Acoustics:** Non-Reciprocal and Topological Acoustics. Wilder
- 9:00 3aPP **Psychological and Physiological Acoustics:** Technological Advancements in Hearing Research (Poster Session). Crown
- 8:30 3aSA **Structural Acoustics and Vibration, Noise, Physical Acoustics, and Engineering Acoustics:** Novel Methods For Energy Dissipation in Structures. Spreckles
- 9:00 3aSC **Speech Communication:** Speech and Hearing Disorders and Child Speech (Poster Session). Crown
- 8:00 3aSP **Signal Processing in Acoustics and Underwater Acoustics:** Memorial Session in Honor of Ed Sullivan. Regent
- 8:00 3aUWa **Underwater Acoustics:** Sound Interaction with the Seabed. Viceroy
- 11:00 3aUWb **Underwater Acoustics and Acoustical Oceanography:** A.B. Wood Medal and Prize Lecture. Viceroy
- 1:00 3pABb **Animal Bioacoustics:** Animal Bioacoustics Poster Session. Crown
- 1:00 3pAO **Acoustical Oceanography and Animal Bioacoustics:** Bioacoustics and Acoustical Oceanography: 20 years Later II. Empress
- 1:00 3pBA **Biomedical Acoustics:** Biomedical Acoustics Poster Session. Crown
- 1:00 3pEA **Engineering Acoustics, Physical Acoustics, and Structural Acoustics and Vibration:** Acoustic Holography and Visualization of Sound: Methods and Applications. Stuart
- 1:00 3pID **Interdisciplinary:** Hot Topics in Acoustics. Hanover
- 1:30 3pMU **Musical Acoustics, Signal Processing in Acoustics, and Computational Acoustics:** Machine Learning in Musical Acoustics. Coronet
- 1:00 3pNS **Noise, Psychological and Physiological Acoustics, and ASA Committee on Standards:** Development of New Sounds for Electric Vehicles. Continental/Crystal
- 1:00 3pPA **Physical Acoustics:** General Topics in Physical Acoustics III. Wilder
- 1:30 3pSA **Structural Acoustics and Vibration:** Topics on Health Monitoring and Non-Destructive Testing. Spreckles
- 1:00 3pSC **Speech Communication:** Neuroscience of Speech Production and Perception and Speech Technology (Poster Session). Crown
- 1:00 3pSP **Signal Processing in Acoustics:** General Topics in Signal Processing (Poster Session). Crown
- 1:00 3pUWa **Underwater Acoustics:** Source and System Component Localization. Viceroy
- 1:00 3pUWb **Underwater Acoustics:** Underwater Acoustics Topics (Poster Session). Crown

WEDNESDAY AFTERNOON

- 1:00 3pAA **Architectural Acoustics:** Assembly Space Renovation Challenges II. Windsor
- 1:00 3pABa **Animal Bioacoustics and ASA Committee on Standards:** Standards in Animal Bioacoustics — Purpose, Need, and Application. Edison

WEDNESDAY EVENING

- 5:30 3eED **Education in Acoustics and Women in Acoustics:** Listen-Up and Get Involved! Carousel

THURSDAY MORNING

- 8:30 4aAA **Architectural Acoustics and Noise:** Architectural Soundscapes I. Windsor
- 8:00 4aAB **Animal Bioacoustics, Signal Processing in Acoustics, Acoustical Oceanography, and Computational Acoustics:** Applications of Machine Learning to Bioacoustics I. Edison

8:15	4aAO	Acoustical Oceanography: Acoustic Propagation and Geoacoustic Inversion. Empress	1:00	4pEDa	Education in Acoustics and Musical Acoustics: Selecting a Textbook for Teaching an Acoustics Course. Carousel
8:00	4aBAa	Biomedical Acoustics: Cavitation Bioeffects I. Garden	3:00	4pEDb	Education in Acoustics: Take 5's. Carousel
10:30	4aBAb	Biomedical Acoustics: Biomedical Acoustics I. Hanover	1:00	4pNS	Noise, Physical Acoustics, and Computational Acoustics: Supersonic Jet Aeroacoustics II. Continental/Crystal
8:00	4aEA	Engineering Acoustics: Transducers. Stuart	1:15	4pPA	Physical Acoustics, Engineering Acoustics, Structural Acoustics and Vibration, and Underwater Acoustics: Aqueous Acoustic Metamaterials II. Wilder
9:00	4aMU	Musical Acoustics: General Topics in Musical Acoustics II. Coronet			
9:00	4aNS	Noise, Physical Acoustics, and Computational Acoustics: Supersonic Jet Aeroacoustics I. Continental/Crystal	1:00	4pPPa	Psychological and Physiological Acoustics and Speech Communication: Perceptual Processing of Sound. Coronet
9:00	4aPA	Physical Acoustics, Engineering Acoustics, Structural Acoustics and Vibration, and Underwater Acoustics: Aqueous Acoustic Metamaterials I. Wilder	3:00	4pPPb	Psychological and Physiological Acoustics: Speech and Pitch Perception. Coronet
8:00	4aSA	Structural Acoustics and Vibration and Computational Acoustics: Computational Methods for Mid-Frequency Structural Acoustic Problems. Spreckles	1:15	4pSC	Speech Communication: Speech Perception (Poster Session). Crown
8:00	4aSC	Speech Communication: Speech Production (Poster Session). Crown	1:15	4pSP	Signal Processing in Acoustics: Array Signal Processing II. Regent
7:55	4aSPa	Signal Processing in Acoustics and Animal Bioacoustics: Eco-Active Sonar. Regent	1:00	4pUW	Underwater Acoustics and Animal Bioacoustics: Ship Source Level Estimation: Methods and Measurements. Viceroy
9:55	4aSPb	Signal Processing in Acoustics: Array Signal Processing I. Regent			
8:15	4aUW	Underwater Acoustics: Measurements, Instrumentation and Analysis Methods. Viceroy			

THURSDAY AFTERNOON

1:45	4pAA	Architectural Acoustics and Noise: Architectural Soundscapes II. Windsor
1:30	4pAB	Animal Bioacoustics, Signal Processing in Acoustics, Acoustical Oceanography, and Computational Acoustics: Applications of Machine Learning to Bioacoustics II. Edison
1:15	4pAOa	Acoustical Oceanography: Underwater Noise. Empress
3:15	4pAOB	Acoustical Oceanography: Underwater Scattering. Empress
1:15	4pBAa	Biomedical Acoustics: Biomedical Acoustics II. Hanover
1:30	4pBAb	Biomedical Acoustics: Cavitation Bioeffects II. Garden
1:15	4pCA	Computational Acoustics, Physical Acoustics, Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, and Structural Acoustics and Vibration: Parabolic Equation Methods Across Acoustics. Stuart

FRIDAY MORNING

9:00	5aAA	Architectural Acoustics, Psychological and Physiological Acoustics, Speech Communication, and ASA Committee on Standards: How Does Speech Perception Work: A Tutorial and Panel Discussion for Architectural Speech Privacy. Windsor
8:30	5aAO	Acoustical Oceanography and Underwater Acoustics: Marine Seismoacoustics. Empress
7:30	5aBA	Biomedical Acoustics: Ultrasound Phantom Development and Tissue Characterization. Edison
8:30	5aCA	Computational Acoustics: General Topics in Computational Acoustics. Hanover
9:00	5aNS	Noise, Physical Acoustics, and Computational Acoustics: Jet Noise Reduction Workshop. Continental/Crystal
8:00	5aPA	Physical Acoustics: General Topics in Physical Acoustics IV. Wilder
8:00	5aSA	Structural Acoustics and Vibration: General Topics in Structural Acoustics and Vibration. Spreckles
8:00	5aSC	Speech Communication: Speech Articulation (Poster Session). Crown
8:15	5aUW	Underwater Acoustics: Remote Sensing, Inversion, and Passive Sensing. Viceroy