

**TECHNICAL PROGRAM CALENDAR**  
**Acoustics '17 Boston**  
**25–29 June 2017**

**SUNDAY MORNING**

- 8:00 1aID **Interdisciplinary:** Opening Ceremonies and Keynote Lectures 1 and 2. Ballroom B
- 10:35 1aAAa **Architectural Acoustics:** Echolocation by People Who are Blind. Room 207
- 10:35 1aAAb **Architectural Acoustics:** Sound Propagation Modeling and Spatial Audio for Virtual Reality I. Room 208
- 10:40 1aAAc **Architectural Acoustics:** Teaching and Learning in Healthy and Comfortable Classrooms I. Room 206
- 10:35 1aAO **Acoustical Oceanography:** Acoustical Oceanography Prize Lecture. Room 310
- 10:40 1aBAa **Biomedical Acoustics:** Beamforming and Image Guided Therapy I: Algorithms. Ballroom B
- 10:40 1aBAb **Biomedical Acoustics:** Imaging I. Room 312
- 10:35 1aNS **Noise, Physical Acoustics, ASA Committee on Standards, and Structural Acoustics and Vibration:** Sonic Boom Noise I: Low Boom Technology, Propagation, Etc. Room 202
- 10:40 1aPA **Physical Acoustics and Biomedical Acoustics:** Acoustofluidics I. Room 210
- 10:40 1aPPa **Psychological and Physiological Acoustics:** Perception of Synthetic Sound Fields I. Room 304
- 10:55 1aPPb **Psychological and Physiological Acoustics:** Auditory Neuroscience Prize Lecture. Room 311
- 10:35 1aSA **Structural Acoustics and Vibration, Noise, Physical Acoustics, and ASA Committee on Standards:** Groundborne Noise and Vibration from Transit Systems. Room 201
- 10:40 1aSC **Speech Communication:** Speech Technology (Poster Session). Ballroom A
- 10:35 1aSP **Signal Processing in Acoustics:** Application of Bayesian Methods to Acoustic Model Identification and Classification I. Room 302
- 10:35 1aUWa **Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, Structural Acoustics and Vibration, Physical Acoustics, and Biomedical Acoustics:** Passive Sensing, Monitoring, and Imaging in Wave Physics I. Room 309

- 10:40 1aUWb **Underwater Acoustics:** Underwater Acoustic Uncertainty. Room 306

**SUNDAY AFTERNOON**

- 1:15 1pAAa **Architectural Acoustics and Noise:** Noise and Soundscapes in Restaurants and Other Public Accommodations. Room 208
- 1:15 1pAAb **Architectural Acoustics:** Prediction of Direct and Flanking Airborne and Impact Sound Transmission. Room 207
- 1:20 1pAAc **Architectural Acoustics:** Teaching and Learning in Healthy and Comfortable Classrooms II. Room 206
- 1:20 1pAB **Animal Bioacoustics:** Biosonar. Room 313
- 1:20 1pAO **Acoustical Oceanography:** Topics in Acoustical Oceanography. Room 310
- 1:20 1pBAa **Biomedical Acoustics:** Beamforming and Image Guided Therapy II: Cavitation Nuclei. Ballroom B
- 1:40 1pBAB **Biomedical Acoustics:** Imaging II. Room 312
- 1:20 1pEA **Engineering Acoustics:** Engineering Acoustics Topics I. Room 204
- 1:15 1pMU **Musical Acoustics and Architectural Acoustics:** Concert Hall Acoustics. Room 200
- 1:15 1pNSa **Noise, Psychological and Physiological Acoustics, and Structural Acoustics and Vibration:** Perception of Tonal Noise. Room 203
- 1:15 1pNSb **Noise and Physical Acoustics:** Session in Honor of Kenneth Plotkin. Room 202
- 1:20 1pPA **Physical Acoustics and Biomedical Acoustics:** Acoustofluidics II. Room 210
- 1:35 1pPPa **Psychological and Physiological Acoustics and Speech Communication:** Honoring the Contributions of Louis Braidà to the Study of Auditory and Speech Perception. Room 311
- 1:40 1pPPb **Psychological and Physiological Acoustics:** Perception of Synthetic Sound Fields II. Room 304
- 1:20 1pSA **Structural Acoustics and Vibration:** General Topics in Structural Acoustics and Vibration I. Room 201
- 1:20 1pSC **Speech Communication:** Non-Native Speech and Bilingualism (Poster Session). Ballroom A

- 1:15 1pSP **Signal Processing in Acoustics:** Application of Bayesian Methods to Acoustic Model Identification and Classification II. Room 302
- 1:20 1pUWa **Underwater Acoustics:** Ambient Sound in the Ocean. Room 306
- 1:20 1pUWb **Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, Structural Acoustics and Vibration, Physical Acoustics, and Biomedical Acoustics:** Passive Sensing, Monitoring, and Imaging in Wave Physics II. Room 309
- 1:20 1pUWc **Underwater Acoustics:** Topics in Underwater Acoustics (Poster Session). Ballroom A
- 9:15 2aNsa **Noise, Architectural Acoustics, and ASA Committee on Standards:** Noise Impacts and Soundscapes on Outdoor Gathering Spaces I. Room 203
- 9:15 2aNSb **Noise, Physical Acoustics, ASA Committee on Standards, and Structural Acoustics and Vibration:** Sonic Boom Noise II: Mach Cutoff, Turbulence, Etc. Room 202
- 9:20 2aPAa **Physical Acoustics:** Infrasound I. Room 210
- 10:20 2aPAb **Physical Acoustics:** General Topics in Physical Acoustics I. Room 300
- 9:15 2aPPa **Psychological and Physiological Acoustics and Speech Communication:** Acoustics Outreach to Budding Scientists: Planting Seeds for Future Clinical and Physiological Collaborations. Room 311

#### MONDAY MORNING

- 8:00 2aIDa **Interdisciplinary:** Keynote Lecture. Ballroom B
- 9:15 2aAAa **Architectural Acoustics:** Sound Propagation Modeling and Spatial Audio for Virtual Reality II. Room 208
- 9:20 2aAAb **Architectural Acoustics:** Acoustic Regulations and Classification of New and Retrofitted Buildings I. Room 207
- 9:20 2aAAc **Architectural Acoustics:** Teaching and Learning in Healthy and Comfortable Classrooms III. Room 206
- 9:20 2aAB **Animal Bioacoustics:** Behavior/Comparative Studies. Room 313
- 9:15 2aAO **Acoustical Oceanography:** Session in Honor of David Farmer I. Room 310
- 9:15 2aBAa **Biomedical Acoustics and Physical Acoustics:** Impact of Soft Tissue Inhomogeneities and Bone/Air on Ultrasound Propagation in the Body. Room 312
- 9:20 2aBAb **Biomedical Acoustics:** Beamforming and Image Guided Therapy III: Ablation and Histotripsy. Ballroom B
- 9:15 2aEA **Engineering Acoustics:** Ducts and Mufflers I. Room 205
- 9:35 2aEDa **Education in Acoustics, Public Relations Committee, and Student Council:** Communicating Scientific Research to Non-Scientists. Room 304
- 10:20 2aEDb **Education in Acoustics:** Education in Acoustics Poster Session. Ballroom A
- 9:15 2aIDb **Interdisciplinary:** Neuroimaging Techniques I. Ballroom C
- 9:15 2aMU **Musical Acoustics and Psychological and Physiological Acoustics:** Session in Memory of David Wessel. Room 200
- 11:40 2aPPb **Psychological and Physiological Acoustics:** Models and Reproducible Research I. Room 311
- 9:15 2aSAa **Structural Acoustics and Vibration, Physical Acoustics, and Engineering Acoustics:** Acoustic Metamaterials I. Room 201
- 9:20 2aSAb **Structural Acoustics and Vibration:** General Topics in Structural Acoustics and Vibration II. Room 204
- 9:20 2aSC **Speech Communication:** Speech Production (Poster Session). Ballroom A
- 9:15 2aSPa **Signal Processing in Acoustics:** Topological Signal Processing. Room 302
- 11:00 2aSPb **Signal Processing in Acoustics, Engineering Acoustics, and Architectural Acoustics:** Signal Processing for Directional Sensors I. Room 302
- 9:15 2aUWa **Underwater Acoustics:** Sound Propagation and Scattering in Three-Dimensional Environments I. Room 306
- 9:20 2aUWb **Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, Structural Acoustics and Vibration, Physical Acoustics, and Biomedical Acoustics:** Passive Sensing, Monitoring, and Imaging in Wave Physics III. Room 309

#### MONDAY AFTERNOON

- 1:15 2pAAa **Architectural Acoustics:** New Measurement and Prediction Techniques at Low Frequencies in Buildings. Room 207
- 1:20 2pAAb **Architectural Acoustics:** Topics in Architectural Acoustics Related to Application. Room 206

- 1:20 2pAAc **Architectural Acoustics:** Perceptual Effects Related to Music Dynamics in Concert Halls. Room 208
- 3:20 2pAAd **Architectural Acoustics:** Room Acoustics Design for Improved Behavior, Comfort, and Performance I. Room 208
- 1:15 2pABa **Animal Bioacoustics, Acoustical Oceanography, Education in Acoustics, and Underwater Acoustics:** Incorporating Underwater Acoustics Research into the Decision Making Process. Room 300
- 1:20 2pABb **Animal Bioacoustics:** Data Management, Detection, Classification, and Localization. Room 313
- 1:20 2pAO **Acoustical Oceanography:** Session in Honor of David Farmer II. Room 310
- 1:15 2pBA **Biomedical Acoustics and Physical Acoustics:** Beamforming and Image Reconstruction. Room 312
- 1:20 2pEA **Engineering Acoustics:** Ducts and Mufflers II. Room 205
- 1:20 2pID **Interdisciplinary:** Neuroimaging Technics II. Ballroom C
- 1:15 2pMU **Musical Acoustics:** Electronically-Augmented Instruments. Room 200
- 1:15 2pNSa **Noise, Architectural Acoustics, and ASA Committee on Standards:** Noise Impacts and Soundscapes on Outdoor Gathering Spaces II. Room 203
- 1:20 2pNSb **Noise, Physical Acoustics, ASA Committee on Standards, and Structural Acoustics and Vibration:** Sonic Boom Noise III: Community Exposure and Metrics. Room 202
- 1:20 2pPA **Physical Acoustics:** Infrasound II. Room 210
- 1:20 2pPPa **Psychological and Physiological Acoustics:** Models and Reproducible Research II. Room 311
- 1:20 2pPPb **Psychological and Physiological Acoustics:** Hearing Aiding, Protection, and Speech Perception. Ballroom B
- 1:20 2pPPc **Psychological and Physiological Acoustics:** Localization, Binaural Hearing, and Cocktail Party (Poster Session). Ballroom A
- 1:15 2pSAa **Structural Acoustics and Vibration, Physical Acoustics, and Engineering Acoustics:** Acoustic Metamaterials II. Room 201
- 1:20 2pSAb **Structural Acoustics and Vibration and ASA Committee on Standards:** Novel Treatments in Vibration Damping. Room 204
- 1:15 2pSC **Speech Communication:** New Trends in Imaging for Speech Production. Room 304
- 1:20 2pSP **Signal Processing in Acoustics, Engineering Acoustics, and Architectural Acoustics:** Signal Processing for Directional Sensors II. Room 302
- 1:15 2pUWa **Underwater Acoustics and Acoustical Oceanography:** In Honor of Ira Dyer, 60 Years as an Innovator, Entrepreneur, and Visionary for Ocean Engineering. Room 309
- 1:20 2pUWb **Underwater Acoustics:** Sound Propagation and Scattering in Three-Dimensional Environments II. Room 306
- TUESDAY MORNING**
- 8:00 3aIDa **Interdisciplinary:** Keynote Lecture. Ballroom B
- 9:15 3aAAa **Architectural Acoustics:** Retrospect on the Works of Bertram Kinsey I. Room 206
- 9:20 3aAAb **Architectural Acoustics:** Room Acoustics Design for Improved Behavior, Comfort, and Performance II. Room 208
- 9:20 3aAAc **Architectural Acoustics:** Acoustic Regulations and Classification of New and Retrofitted Buildings II. Room 207
- 9:15 3aAB **Animal Bioacoustics:** Comparative Bioacoustics: Session in Honor of Robert Dooling I. Room 313
- 9:15 3aAO **Acoustical Oceanography and Underwater Acoustics:** Acoustic Measurements of Sediment Transport and Near-Bottom Structures I. Room 310
- 9:15 3aBAa **Biomedical Acoustics:** Advances in Shock Wave Lithotripsy I. Ballroom B
- 9:15 3aBAb **Biomedical Acoustics:** Partial Differential Equation Constrained and Heuristic Inverse Methods in Elastography I. Room 312
- 9:20 3aEA **Engineering Acoustics and Physical Acoustics:** Microelectromechanical systems (MEMS) Acoustic Sensors I. Room 205
- 9:20 3aIDb **Interdisciplinary, Education in Acoustics and Student Council:** Graduate Programs in Acoustics Poster Session. Ballroom A
- 9:15 3aMU **Musical Acoustics:** Session in Honor of Thomas D. Rossing. Room 200
- 9:15 3aNsa **Noise:** Mechanical System Noise. Room 203
- 9:15 3aNsb **Noise, Education in Acoustics, ASA Committee on Standards, and Psychological and Physiological Acoustics:** Using Acoustic Standards in Education. Room 202

- 10:20 3aNSc **Noise, Physical Acoustics, ASA Committee on Standards, and Structural Acoustics and Vibration:** Aircraft Noise and Measurement (Poster Session). Ballroom A
- 9:15 3aPA **Physical Acoustics and Noise:** Eco-acoustics: Acoustic Applications for Green Technologies and Environmental Impact Measurements. Room 210
- 9:15 3aPPa **Psychological and Physiological Acoustics:** Auditory Cognition and Scene Analysis in Complex Environments. Room 311
- 10:00 3aPPb **Psychological and Physiological Acoustics:** Environmental Auditory Experience. Room 304
- 9:15 3aSAa **Structural Acoustics and Vibration:** Energy Methods in Acoustics and Vibration I. Room 204
- 10:40 3aSAb **Structural Acoustics and Vibration, Physical Acoustics, and Engineering Acoustics:** Acoustic Metamaterials III. Room 201
- 9:20 3aSC **Speech Communication:** Prosody (Poster Session). Ballroom A
- 9:20 3aSP **Signal Processing in Acoustics, Engineering Acoustics, and Architectural Acoustics:** Signal Processing for Directional Sensors III. Room 302
- 9:20 3aUWa **Underwater Acoustics, Acoustical Oceanography, Engineering Acoustics, and Signal Processing in Acoustics:** A Century of Sonar I. Room 309
- 9:20 3aUWb **Underwater Acoustics:** Sound Propagation and Scattering in Three-Dimensional Environments III. Room 306
- TUESDAY AFTERNOON**
- 1:15 3pAAa **Architectural Acoustics:** Retrospect on the Works of Bertram Kinsey II. Room 206
- 1:15 3pAAb **Architectural Acoustics:** Architectural Acoustics and Audio: Even Better Than the Real Thing I. Room 207
- 1:20 3pAAc **Architectural Acoustics:** Robust Heavy and Lightweight Constructions for New-Build and Retrofit Buildings. Room 208
- 1:20 3pAB **Animal Bioacoustics:** Comparative Bioacoustics: Session in Honor of Robert Dooling II. Room 313
- 1:20 3pAO **Acoustical Oceanography and Underwater Acoustics:** Acoustic Measurements of Sediment Transport and Near-Bottom Structures II. Room 310
- 1:20 3pBAa **Biomedical Acoustics:** Advances in Shock Wave Lithotripsy II. Room 304
- 1:40 3pBAb **Biomedical Acoustics:** Partial Differential Equation Constrained and Heuristic Inverse Methods in Elastography II. Room 312
- 1:20 3pEA **Engineering Acoustics and Physical Acoustics:** Microelectromechanical systems (MEMS) Acoustic Sensors II. Room 205
- 1:20 3pMU **Musical Acoustics:** General Topics in Musical Acoustics I (Poster Session). Ballroom A
- 1:15 3pNSa **Noise:** Implications of Community Tolerance Level Analysis for Prediction of Community Reaction to Environmental Noise. Room 202
- 1:15 3pNSb **Noise, Physical Acoustics, ASA Committee on Standards, and Structural Acoustics and Vibration:** Sonic Boom Noise V: Turbulence, Predictions, and Measurements. Room 203
- 1:20 3pNSc **Noise:** Effects of Noise and Perception (Poster Session). Ballroom A
- 1:15 3pPAa **Physical Acoustics:** Chains, Grains, and Origami Nonlinear Metamaterials. Room 210
- 1:20 3pPAb **Physical Acoustics:** General Topics in Physical Acoustics II. Room 200
- 1:20 3pPAc **Physical Acoustics:** Topics in Physical Acoustics (Poster Session). Ballroom A
- 1:15 3pPP **Psychological and Physiological Acoustics:** A Celebration of Nat Durlach and His Contributions to Sensory Communications. Room 311
- 1:20 3pSAa **Structural Acoustics and Vibration, Physical Acoustics, and Engineering Acoustics:** Acoustic Metamaterials IV. Room 201
- 1:20 3pSAb **Structural Acoustics and Vibration:** Energy Methods in Acoustics and Vibration II. Room 204
- 1:20 3pSC **Speech Communication:** Aging and Development (Poster Session). Ballroom A
- 1:20 3pSP **Signal Processing in Acoustics, Engineering Acoustics, and Architectural Acoustics:** Signal Processing for Directional Sensors IV. Room 302
- 1:20 3pUWa **Underwater Acoustics, Acoustical Oceanography, Engineering Acoustics, and Signal Processing in Acoustics:** A Century of Sonar II. Room 309
- 1:20 3pUWb **Underwater Acoustics:** Sound Propagation and Scattering in Three-Dimensional Environments IV. Room 306

**TUESDAY EVENING**

5:30 3eED **Education in Acoustics and Women in Acoustics:** Listen Up and Get Involved. Room 309

**WEDNESDAY MORNING**

7:55 4aAAa **Architectural Acoustics:** Recent Developments and Advances in Archeo-Acoustics and Historical Soundscapes I. Room 206

8:00 4aAAb **Architectural Acoustics:** Acoustic Regulations and Classification of New and Retrofitted Buildings III (Poster Session). Ballroom C

8:00 4aAAc **Architectural Acoustics:** Topics in Architectural Acoustics (Poster Session). Ballroom C

8:00 4aAAd **Architectural Acoustics:** Simulation and Evaluation of Acoustic Environments I. (Poster Session). Ballroom C

8:15 4aAAe **Architectural Acoustics, Speech Communication, Signal Processing in Acoustics, Psychological and Physiological Acoustics, ASA Committee on Standards, and Engineering Acoustics:** Assistive Listening Systems in Assembly Spaces. Room 207

8:20 4aAAf **Architectural Acoustics:** Simulation and Evaluation of Acoustic Environments I. Room 208

11:00 4aAAg **Architectural Acoustics:** Topics in Architectural Acoustics Related to Measurements I. Room 206

7:55 4aAB **Animal Bioacoustics:** Fish Bioacoustics I: Session in Honor of Anthony Hawkins and Arthur Popper. Room 313

7:55 4aBA **Biomedical Acoustics, Physical Acoustics, and Underwater Acoustics:** Session in Honor of Edwin Carstensen I. Ballroom B

8:00 4eAAa **Engineering Acoustics and Physical Acoustics:** Microelectromechanical systems (MEMS) Acoustic Sensors III. Room 205

8:20 4eAAb **Engineering Acoustics:** Engineering Acoustics Topics II. Room 204

10:15 4eAC **Engineering Acoustics:** Micro-Perforates I. Room 205

11:00 4eED **Education in Acoustics:** Take 5's. Room 200

7:55 4eMU **Musical Acoustics and Psychological and Physiological Acoustics:** Musical Instrument Performance, Perception, and Psychophysics I. Room 200

8:00 4eNSa **Noise:** Measuring, Modeling, and Managing Transportation Noise I. Room 202

8:55 4eNSb **Noise, ASA Committee on Standards, and Structural Acoustics and Vibration:** Wind Turbine Noise. Room 203

8:35 4ePAa **Physical Acoustics and Signal Processing in Acoustics:** Outdoor Sound Propagation I. Room 310

8:35 4ePAb **Physical Acoustics, Biomedical Acoustics, and Structural Acoustics and Vibration:** Propagation in Inhomogeneous Media I. Room 210

8:00 4ePPa **Psychological and Physiological Acoustics:** Speech, Pitch, Cochlear Implants, and Hearing Aids Potpourri (Poster Session). Ballroom A

8:15 4ePPb **Psychological and Physiological Acoustics:** History of Psychoacoustics in the Period 1900-1950. Room 311

9:15 4ePPc **Psychological and Physiological Acoustics:** Physiology Meets Perception I. Room 304

8:00 4eSAa **Structural Acoustics and Vibration, Biomedical Acoustics, Signal Processing in Acoustics, and Physical Acoustics:** Novel Techniques for Nondestructive Evaluation I. Room 201

8:00 4eSAb **Structural Acoustics and Vibration:** Topics in Structural Acoustics and Vibration (Poster Session). Ballroom C

10:40 4eSAc **Structural Acoustics and Vibration:** General Topics in Structural Acoustics and Vibration III. Room 204

8:00 4eSC **Speech Communication:** Speech Perception and Production in Clinical Populations (Poster Session). Ballroom A

8:15 4eSP **Signal Processing in Acoustics, Underwater Acoustics, and Biomedical Acoustics:** Sparse and Co-Prime Array Processing I. Room 302

8:00 4eUWa **Underwater Acoustics:** Acoustical Interaction with Ocean Boundaries and Targets. Room 306

8:35 4eUWb **Underwater Acoustics, Acoustical Oceanography, and ASA Committee on Standards:** Underwater Noise from Marine Construction and Energy Production I. Room 309

10:35 4eUWc **Underwater Acoustics:** Unmanned Vehicles and Acoustics I. Room 306

**WEDNESDAY AFTERNOON**

1:15 4pAAa **Architectural Acoustics and Noise:** Architectural Acoustics and Audio: Even Better Than the Real Thing II. Room 207

- 1:20 4pAAb **Architectural Acoustics:** Simulation and Evaluation of Acoustic Environments II. Room 208
- 1:20 4pAAc **Architectural Acoustics:** Topics in Architectural Acoustics Related to Measurements II. Room 206
- 2:35 4pAAAd **Architectural Acoustics:** Recent Developments and Advances in Archeo-Acoustics and Historical Soundscapes II. Room 206
- 1:20 4pAB **Animal Bioacoustics:** Fish Bioacoustics II: Session in Honor of Anthony Hopkins and Arthur Popper. Room 313
- 1:15 4pAO **Acoustical Oceanography, Animal Bioacoustics, and Underwater Acoustics:** Acoustics and Acoustic Ecology of Benthic Communities. Room 310
- 1:15 4pBAa **Biomedical Acoustics, Physical Acoustics, and Underwater Acoustics:** Session in Honor of Edwin Carstensen II. Ballroom B
- 1:20 4pBAB **Biomedical Acoustics:** Biomedical Acoustics Best Student Paper Competition. (Poster Session) Ballroom C
- 1:20 4pEA **Engineering Acoustics:** Micro-Perforates II. Room 205
- 1:20 4pMU **Musical Acoustics and Psychological and Physiological Acoustics:** Musical Instrument Performance, Perception, and Psychophysics II. Room 200
- 1:15 4pNSa **Noise, Structural Acoustics and Vibration, Architectural Acoustics, Speech Communication, and Psychological and Physiological Acoustics:** E-Mobility—Challenge for Acoustics. Room 203
- 1:20 4pNSb **Noise:** Measuring, Modeling, and Managing Transportation Noise II. Room 202
- 1:20 4pNSc **Noise:** Urban Environment and Noise Control (Poster Session). Ballroom A
- 1:20 4pPAa **Physical Acoustics and Signal Processing in Acoustics:** Outdoor Sound Propagation II. Room 204
- 1:20 4pPAb **Physical Acoustics, Biomedical Acoustics, and Structural Acoustics and Vibration:** Propagation in Inhomogeneous Media II. Room 210
- 1:15 4pPPa **Psychological and Physiological Acoustics:** Perceptual Weights and Cue Integration in Hearing: Loudness, Binaural Hearing, Motion Perception, and Beyond. Room 311
- 1:20 4pPPb **Psychological and Physiological Acoustics:** Physiology Meets Perception II. Room 304
- 1:20 4pPPc **Psychological and Physiological Acoustics:** Attention, Learning, Perception, Physiology Potpourri (Poster Session). Ballroom A
- 1:20 4pSAa **Structural Acoustics and Vibration, Biomedical Acoustics, Signal Processing in Acoustics, and Physical Acoustics:** Novel Techniques for Nondestructive Evaluation II. Room 201
- 4:15 4pSAb **Structural Acoustics and Vibration:** Probabilistic Finite Element Analysis and Uncertainty Quantification in Vibro-acoustic Problems. Room 205
- 1:15 4pSC **Speech Communication and Animal Bioacoustics:** Measuring Speech Perception and Production Remotely: Telehealth, Crowd-Sourcing, and Experiments over the Internet. Room 312
- 1:20 4pSPa **Signal Processing in Acoustics, Underwater Acoustics, and Biomedical Acoustics:** Sparse and Co-Prime Array Processing II. Room 302
- 1:20 4pSPb **Signal Processing in Acoustics:** Topics in Signal Processing in Acoustics (Poster Session). Ballroom C
- 3:35 4pSPc **Signal Processing in Acoustics, Architectural Acoustics, Biomedical Acoustics, and Physical Acoustics:** Extraction of Acoustic Signals by Remote Non-Acoustic Methods. Room 302
- 1:20 4pUWa **Underwater Acoustics, Acoustical Oceanography, and ASA Committee on Standards:** Underwater Noise From Marine Construction and Energy Production II. Room 309
- 1:20 4pUWb **Underwater Acoustics:** Unmanned Vehicles and Acoustics II. Room 306
- THURSDAY MORNING**
- 7:55 5aAAa **Architectural Acoustics and ASA Committee on Standards:** Uncertainty in Laboratory Building Acoustic Standards. Room 207
- 8:00 5aAAb **Architectural Acoustics:** Topics in Architectural Acoustics Related to Materials and Modeling. Room 206
- 8:20 5aAAc **Architectural Acoustics:** Simulation and Evaluation of Acoustic Environments III. Room 208
- 9:15 5aAAAd **Architectural Acoustics:** Recent Developments and Advances in Archeo-Acoustics and Historical Soundscapes III. Room 206

- 7:55 5aABa **Animal Bioacoustics: Ecosystem Acoustics** I. Room 313
- 8:00 5aABb **Animal Bioacoustics: Topics in Animal Bioacoustics (Poster Session).** Ballroom A
- 8:15 5aAO **Acoustical Oceanography: Tools and Methods for Ocean Mapping I.** Room 310
- 7:55 5aBAa **Biomedical Acoustics and Signal Processing in Acoustics: Diagnostic and Therapeutic Applications of Ultrasound Contrast Agents I.** Ballroom B
- 8:20 5aBAb **Biomedical Acoustics: Imaging III.** Room 312
- 8:00 5aEA **Engineering Acoustics: Engineering Acoustics Topics III.** Room 205
- 8:00 5aMU **Musical Acoustics: General Topics in Musical Acoustics II.** Room 200
- 8:35 5aNSa **Noise and Signal Processing in Acoustics: Statistical Learning and Data Science Techniques in Acoustics Research.** Room 203
- 9:15 5aNSb **Noise, Architectural Acoustics, Speech Communication, and Psychological and Physiological Acoustics: Effects of Noise on Human Comfort and Performance I.** Room 202
- 9:00 5aPA **Physical Acoustics: General Topics in Physical Acoustics III.** Room 210
- 7:55 5aPPa **Psychological and Physiological Acoustics, Speech Communication, ASA Committee on Standards, Architectural Acoustics, and Signal Processing in Acoustics: Speech Intelligibility in Adverse Environments: Behavior and Modeling I.** Room 311
- 8:00 5aPPb **Psychological and Physiological Acoustics: Sound Localization and Binaural Hearing.** Room 300
- 8:00 5aSAa **Structural Acoustics and Vibration and Physical Acoustics: Numerical Methods and Benchmarking in Computational Acoustics I.** Room 201
- 10:40 5aSAb **Structural Acoustics and Vibration, Noise, Physical Acoustics, and Architectural Acoustics: Acoustics and Vibration of Sports and Sports Equipment.** Room 204
- 8:00 5aSC **Speech Communication: Variation: Age, Gender, Dialect, and Style (Poster Session).** Ballroom A
- 8:20 5aSPa **Signal Processing in Acoustics: Audio and Array Signal Processing I.** Room 302
- 8:20 5aSPb **Signal Processing in Acoustics and Underwater Acoustics: Underwater Acoustic Communications.** Room 304
- 8:00 5aUWa **Underwater Acoustics: Acoustical Localization, Navigation, Inversion, and Communication.** Room 306
- 8:40 5aUWb **Underwater Acoustics, Acoustical Oceanography, and ASA Committee on Standards: Underwater Noise from Marine Construction and Energy Production III.** Room 309
- THURSDAY AFTERNOON**
- 1:15 5pAAa **Architectural Acoustics: Architectural Acoustics and Audio: Even Better Than the Real Thing III.** Room 207
- 1:20 5pAAb **Architectural Acoustics: Simulation and Evaluation of Acoustic Environments IV.** Room 208
- 1:35 5pAAc **Architectural Acoustics: Recent Developments and Advances in Archeo-Acoustics and Historical Soundscapes IV.** Room 206
- 1:20 5pAB **Animal Bioacoustics: Ecosystem Acoustics II.** Room 313
- 1:20 5pAO **Acoustical Oceanography: Tools and Methods for Ocean Mapping II.** Room 310
- 1:15 5pBAa **Biomedical Acoustics and ASA Committee on Standards: Standardization of Ultrasound Medical Devices.** Room 312
- 1:20 5pBAb **Biomedical Acoustics and Signal Processing in Acoustics: Diagnostic and Therapeutic Applications of Ultrasound Contrast Agents II.** Ballroom B
- 1:20 5pBAc **Biomedical Acoustics: Therapeutic Ultrasound and Bioeffects.** Ballroom C
- 1:20 5pEA **Engineering Acoustics: Engineering Acoustics Topics IV.** Room 205
- 1:15 5pED **Education in Acoustics and Student Council: Teaching Tips for the New (or Not So New) Acoustics Faculty Members.** Room 204
- 1:15 5pNSa **Noise, Architectural Acoustics, and Engineering Acoustics: A Comparative Look at US and European Noise Policies.** Room 203
- 1:20 5pNSb **Noise, Architectural Acoustics, Speech Communication, and Psychological and Physiological Acoustics: Effects of Noise on Human Comfort and Performance II.** Room 202
- 1:40 5pPA **Physical Acoustics: General Topics in Physical Acoustics IV.** Room 210
- 1:20 5pPPa **Psychological and Physiological Acoustics: Psychoacoustics: Models and Perception.** Room 304

- |      |       |   |      |       |  |
|------|-------|---|------|-------|--|
| 1:20 | 5pPPb | <b>Psychological and Physiological Acoustics, Speech Communication, ASA Committee on Standards, Architectural Acoustics, and Signal Processing in Acoustics:</b> Speech Intelligibility in Adverse Environments: Behavior and Modeling II. Room 311 | 1:15 | 5pSPa | <b>Signal Processing in Acoustics, Engineering Acoustics, and Underwater Acoustics:</b> Signal Processing in Side Scan Sonar Systems. Room 200 |
| 1:20 | 5pSA  | <b>Structural Acoustics and Vibration and Physical Acoustics:</b> Numerical Methods and Benchmarking in Computational Acoustics II. Room 201  | 1:20 | 5pSPb | <b>Signal Processing in Acoustics:</b> Audio and Array Signal Processing II. Room 302  |
| 1:20 | 5pSC  | <b>Speech Communication:</b> Speech Perception (Poster Session). Ballroom A   | 1:15 | 5pUWa | <b>Underwater Acoustics and Physical Acoustics:</b> Infrasound in the Ocean and Atmosphere. Room 306   |
|      |       |   | 1:20 | 5pUWb | <b>Underwater Acoustics:</b> Underwater Acoustic Propagation. Room 309   |