

**TECHNICAL PROGRAM CALENDAR**  
**Acoustics 2012 Hong Kong**  
**14–18 May 2012**

**MONDAY MORNING**

8:20		<b>Keynote Lecture:</b> Language Learning and the Developing Brain: Cross-Cultural Studies Unravel the Effects of Biology and Culture. Hall B
9:15	1aAA	<b>Architectural Acoustics and Signal Processing in Acoustics:</b> Multiple-Microphone Measurements and Analysis in Room Acoustics I. Hall A
9:20	1aBA	<b>Biomedical Acoustics:</b> Therapeutic Ultrasound. S223
9:20	1aEA	<b>Engineering Acoustics and Noise:</b> Mufflers and Silencers. S221
11:00	1aED	<b>Education in Acoustics:</b> Teaching Acoustics on Both Sides of the Pacific I. S226
9:20	1aHT	<b>Hot Topics:</b> 3-D Sound I (Lecture/Poster Session). S227
9:40	1aMU	<b>Musical Acoustics:</b> Asian String Instruments. S228
9:20	1aNSa	<b>Noise:</b> Noise Source Localization I. Hall B
9:20	1aNSb	<b>Noise and ASA Committee on Standards:</b> Annoyance and Health Effects I. Hall C
9:20	1aNSc	<b>Noise, Animal Bioacoustics, and ASA Committee on Standards:</b> Ground Transportation Noise I. Theatre 2
9:20	1aPA	<b>Physical Acoustics:</b> Sonoluminescence (Lecture/Poster Session). S224 + S225
9:20	1aPP	<b>Psychological and Physiological Acoustics and Animal Bioacoustics:</b> Open Challenges in Auditory Scene Analysis I. S423
9:20	1aSA	<b>Structural Acoustics and Vibration and Noise:</b> Energy Based Methods in Structural Acoustics I. S222
9:40	1aSCa	<b>Speech Communication:</b> Speech Perception and Early Language Development: Cross-Linguistic Studies of English, Cantonese, and Mandarin. S425
9:20	1aSCb	<b>Speech Communication:</b> Speech Processing Potpourri (Poster Session). S428
9:20	1aUWa	<b>Underwater Acoustics and Signal Processing in Acoustics:</b> Advances in Underwater Acoustic Communication and Networking I. S421
9:20	1aUWb	<b>Underwater Acoustics, Acoustical Oceanography, and Physical Acoustics:</b> Sediment Acoustics of Continental Shelves I. S426 + S427

**MONDAY AFTERNOON**

1:55	1pAA	<b>Architectural Acoustics and Noise:</b> Acoustics in Concert Halls I. Hall A
2:00	1pBA	<b>Biomedical Acoustics:</b> Ultrasound Enhanced Drug Delivery. S224 + S225
2:00	1pEAa	<b>Engineering Acoustics:</b> Acoustic Well Logging and Borehole Acoustics I (Poster Session). S221
2:00	1pEAb	<b>Engineering Acoustics:</b> Biomedical Transducers. S424
2:00	1pED	<b>Education in Acoustics:</b> Teaching Acoustics on Both Sides of the Pacific II. S226
2:00	1pHT	<b>Hot Topics:</b> 3-D Sound II. S227
2:00	1pNSa	<b>Noise:</b> Noise Source Localization II (Lecture/Poster Session). Hall B
2:00	1pNSb	<b>Noise and ASA Committee on Standards:</b> Annoyance and Health Effects II (Lecture/Poster Session). Hall C
4:20	1pNSc	<b>Noise, Structural Acoustics and Vibration, and Architectural Acoustics:</b> Vibration and Structure-Borne Noise in Buildings. Hall C
2:00	1pNSd	<b>Noise, Animal Bioacoustics, and ASA Committee on Standards:</b> Ground Transportation Noise II. Theatre 2
2:00	1pPA	<b>Physical Acoustics:</b> Thermoacoustics. S223
2:00	1pPP	<b>Psychological and Physiological Acoustics and Animal Bioacoustics:</b> Open Challenges in Auditory Scene Analysis II. S423
2:00	1pSA	<b>Structural Acoustics and Vibration and Noise:</b> Noise Control Methods for Aerospace Structures I. S222
2:40	1pSC	<b>Speech Communication:</b> Cross-Linguistic Studies of Speech Sound Learning of the Languages of Hong Kong (Poster Session). S428
2:00	1pUWa	<b>Underwater Acoustics and Signal Processing in Acoustics:</b> Advances in Underwater Acoustic Communication and Networking II. S421
2:00	1pUWb	<b>Underwater Acoustics, Acoustical Oceanography, and Physical Acoustics:</b> Sediment Acoustics of Continental Shelves II. S426 + S427

**TUESDAY MORNING**

- 8:20 **Keynote Lecture:** Acoustic Diode. Hall B
- 9:15 2aAAa **Architectural Acoustics, Noise, and ASA Committee on Standards:** Classroom Acoustics in Asia. Hall A
- 9:35 2aAAb **Architectural Acoustics and Signal Processing in Acoustics:** Multiple-Microphone Measurements and Analysis in Room Acoustics II (Lecture/Poster Session). Hall B
- 9:20 2aAAc **Architectural Acoustics and National Council of Acoustical Consultants:** Student Design Competition. Theatre Foyer
- 9:20 2aAO **Acoustical Oceanography, Animal Bioacoustics, and Underwater Acoustics:** New Technologies for Monitoring Fish—Active and Passive. S426 + S427
- 9:20 2aBA **Biomedical Acoustics:** Biomedical Ultrasound Imaging Instrumentation. S224 + S225
- 9:20 2aEA **Engineering Acoustics and Physical Acoustics:** Acoustic Metamaterials I. S221
- 11:00 2aED **Education in Acoustics:** Engaging in Effective Teaching Methods in Acoustics. S226
- 9:15 2aHT **Hot Topics:** Community Noise Policy Development I. S227
- 9:40 2aMU **Musical Acoustics:** Asian Wind Instruments. S228
- 9:20 2aNsa **Noise, Animal Bioacoustics, and ASA Committee on Standards:** Ground Transportation Noise III. Theatre 2
- 12:00 2aNSb **Noise:** Numerical Methods in Noise I. Theatre 2
- 9:20 2aNsc **Noise and Animal Bioacoustics:** Future of Acoustics: East and West. Hall C
- 9:20 2aPA **Physical Acoustics and Biomedical Acoustics:** Acoustic Micro- and Nanofluidics I. S223
- 9:20 2aPP **Psychological and Physiological Acoustics:** Binaural Hearing and Cochlear Mechanics. S423
- 9:20 2aSA **Structural Acoustics and Vibration and Noise:** Machinery Noise and Vibration I. S222
- 9:40 2aSC **Speech Communication:** Speech Perception Across Languages, Modalities, and Levels of Ability (Poster Session). S428
- 9:15 2aSP **Signal Processing in Acoustics, Acoustical Oceanography, and Underwater Acoustics:** Model-Based Processing and Analysis I. S425

- 9:20 2aUW **Underwater Acoustics and Acoustical Oceanography:** Underwater Acoustics in Asian Marginal Seas: Field Experiments and Modeling I. S421

**TUESDAY AFTERNOON**

- 1:55 2pAAa **Architectural Acoustics and Psychological and Physiological Acoustics:** Psychoacoustics in Rooms I. Hall A
- 1:55 2pAAb **Architectural Acoustics and Noise:** Multifamily Dwellings and Lightweight Structures (Lecture/Poster Session). Hall B
- 2:00 2pBA **Biomedical Acoustics and Physical Acoustics:** Subharmonic Contrast Imaging. S224 + S225
- 2:00 2pEA **Engineering Acoustics and Physical Acoustics:** Acoustic Metamaterials II. S221
- 2:00 2pHT **Hot Topics:** Community Noise Policy Development II. S227
- 2:00 2pMU **Musical Acoustics, Psychological and Physiological Acoustics, and Signal Processing in Acoustics:** Acoustics of Traditional Musical Practices and Instruments I. S228
- 2:00 2pNSa **Noise:** Numerical Methods in Noise II. Theatre 2
- 2:00 2pNSb **Noise:** Application of Geographic Information Systems to Manage and Control Urban Noise. Hall C
- 2:00 2pPA **Physical Acoustics and Biomedical Acoustics:** Acoustic Micro- and Nanofluidics II. S223
- 2:00 2pPP **Psychological and Physiological Acoustics:** Release from Masking in Listeners with Normal and Impaired Hearing. S423
- 2:00 2pSA **Structural Acoustics and Vibration and Noise:** Machinery Noise and Vibration II. S222
- 2:00 2pSC **Speech Communication:** Articulation and Acoustics in Typical and Atypical Speakers (Poster Session). S428
- 2:00 2pSP **Signal Processing in Acoustics, Acoustical Oceanography, and Underwater Acoustics:** Model-Based Processing and Analysis II. S425
- 2:00 2pUWa **Underwater Acoustics and Acoustical Oceanography:** Underwater Acoustics in Asian Marginal Seas: Field Experiments and Modeling II. S421

2:00 2pUWb **Underwater Acoustics, Acoustical Oceanography, and Physical Acoustics:** Rough Interface Scattering from Ocean Boundaries. S426 + S427

### WEDNESDAY MORNING

8:55 3aAA **Architectural Acoustics and Noise:** Acoustics in Concert Halls II (Lecture/Poster Session). Hall A

8:20 3aAB **Animal Bioacoustics, Acoustical Oceanography, Underwater Acoustics, and Signal Processing in Acoustics:** Biosonar I. S424

9:00 3aBAa **Biomedical Acoustics:** Ultrasound Imaging and Therapy (Poster Session). S428

11:00 3aBAb **Biomedical Acoustics:** Ultrasound Enhanced Drug Delivery and Bone Quantification (Poster Session). S428

8:20 3aEAa **Engineering Acoustics:** Acoustic Well Logging and Borehole Acoustics II. S226

8:20 3aEAb **Engineering Acoustics and Physical Acoustics:** Acoustic Metamaterials III (Lecture/Poster Session). S221

8:15 3aHT **Hot Topics:** Noise Around Airport. S227

8:20 3aMU **Musical Acoustics and Speech Communication:** Singing Voice in Asian Cultures. S228

9:20 3aNSa **Noise, Engineering Acoustics, Physical Acoustics, and Signal Processing in Acoustics:** Active Noise Control I. Hall B

9:20 3aNSb **Noise, ASA Committee on Standards, and Animal Bioacoustics:** Assessment and Measurement of Park Soundscapes. Hall C

8:00 3aPA **Physical Acoustics and Biomedical Acoustics:** Metrics and Objectivity in Cavitation Research. S223

8:20 3aPP **Psychological and Physiological Acoustics:** Cortical Neuroimaging Techniques in Auditory Perception and Cognition. S423

8:20 3aSA **Structural Acoustics and Vibration and Noise:** Aircraft Cabin Noise. S222

8:20 3aUWa **Underwater Acoustics:** Propagation. S421

8:20 3aUWb **Underwater Acoustics:** Target Scattering. S426 + S427

### THURSDAY MORNING

8:20 **Keynote Lecture:** Acoustics of Traditional Chinese Theatres. Hall B

9:15 4aAAa **Architectural Acoustics and Noise:** Healthcare Acoustics. Hall A

9:15 4aAAb **Architectural Acoustics, Physical Acoustics, Noise, and Signal Processing in Acoustics:** Development and Applications of Micro-Perforated Sound Absorbers (Lecture/Poster Session). S221

9:20 4aAB **Animal Bioacoustics, Acoustical Oceanography, Underwater Acoustics, and Signal Processing in Acoustics:** Biosonar II. S424

9:20 4aBA **Biomedical Acoustics:** Bone Quantitative Ultrasound I. S224 + S225

9:20 4aEA **Engineering Acoustics:** Flow Noise and Mitigation Methods. S226

9:15 4aHT **Hot Topics:** Aeroacoustics I. S227

9:15 4aID **Interdisciplinary:** Workshop on Publishing Excellence in the Journal of the Acoustical Society of America. S425

9:20 4aMU **Musical Acoustics and Psychological and Physiological Acoustics:** Musical Timbre: Perception and Analysis/Synthesis I. S228

9:20 4aNSa **Noise, Engineering Acoustics, Physical Acoustics, and Signal Processing in Acoustics:** Active Noise Control II. Hall B

9:20 4aNSb **Noise, Architectural Acoustics, Animal Bioacoustics, and ASA Committee on Standards:** Soundscape and its Application I. Hall C

9:20 4aPA **Physical Acoustics and Engineering Acoustics:** Emerging Technologies and Concepts in Ultrasonics. S223

9:20 4aPP **Psychological and Physiological Acoustics:** Current Issues in Auditory Cortex Physiology. S423

9:40 4aSP **Signal Processing in Acoustics, Acoustical Oceanography, and Underwater Acoustics:** Model-Based Processing and Analysis III (Poster Session). S428

9:20 4aUWa **Underwater Acoustics and Signal Processing in Acoustics:** Time Series Analysis and Data Processing in Underwater Acoustics I. S421

9:20 4aUWb **Underwater Acoustics and Signal Processing in Acoustics:** Waveguide Invariance Characterization and Processing. S426 + S427

### THURSDAY AFTERNOON

1:55 4pAA **Architectural Acoustics and Psychological and Physiological Acoustics:** Psychoacoustics in Rooms II. Hall A

2:00 4pAB **Animal Bioacoustics:** Tropical and Sirenian Bioacoustics. S424

- 2:00 4pBA **Biomedical Acoustics: Bone Quantitative Ultrasound II.** S224 + S225
- 2:00 4pEAa **Engineering Acoustics and Physical Acoustics: Civil Non-Destructive Testing with Ultrasound or Other Non-Contact Methods I.** S226
- 2:00 4pEAb **Engineering Acoustics, Underwater Acoustics, and Biomedical Acoustics: Acoustic Sensors and Actuators I.** S221
- 2:00 4pHT **Hot Topics: Aeroacoustics II.** S227
- 2:00 4pMUa **Musical Acoustics and Psychological and Physiological Acoustics: Musical Timbre: Perception and Analysis/Synthesis II.** S228
- 3:20 4pMUb **Musical Acoustics, Psychological and Physiological Acoustics, and Signal Processing in Acoustics: Acoustics of Traditional Musical Practices and Instruments II.** S228
- 2:00 4pNSa **Noise, Engineering Acoustics, Physical Acoustics, and Signal Processing in Acoustics: Active Noise Control III.** Hall B
- 2:00 4pNSb **Noise, Architectural Acoustics, Animal Bioacoustics, and ASA Committee on Standards: Soundscape and Its Application II.** Hall C
- 2:00 4pPA **Physical Acoustics: Laser Ultrasonics: Fundamentals and Applications.** S223
- 2:00 4pPP **Psychological and Physiological Acoustics and Signal Processing in Acoustics: Psychological and Physiological Basis of Tonal Language Processing.** S423
- 2:00 4pSP **Signal Processing in Acoustics, Acoustical Oceanography, and Underwater Acoustics: Model-Based Processing and Analysis IV.** S425
- 2:00 4pUWa **Underwater Acoustics and Signal Processing in Acoustics: Time Series Analysis and Data Processing in Underwater Acoustics II.** S421
- 2:00 4pUWb **Underwater Acoustics: Underwater Acoustics Poster Session (Poster Session).** S428

#### FRIDAY MORNING

- 8:20 **Keynote Lecture: Reservoir Acoustics and Its Applications.** Hall B
- 9:15 5aAA **Architectural Acoustics and Psychological and Physiological Acoustics: Objective and Subjective Parameters of Spatial Impression in Performing Arts Spaces I.** Hall A
- 9:20 5aAB **Animal Bioacoustics: Acoustic Monitoring of Animals.** S424

- 9:20 5aBA **Biomedical Acoustics and Physical Acoustics: Acoustic Microscopy Imaging Methods for Biomedical Applications I.** S223
- 9:20 5aEAa **Engineering Acoustics, Underwater Acoustics, and Biomedical Acoustics: Acoustic Sensors and Actuators II and Civil Nondestructive Testing with Ultrasound or Other Non-Contact Methods II (Poster Session).** S221
- 11:00 5aEAb **Engineering Acoustics, Underwater Acoustics, and Biomedical Acoustics: Acoustic Sensors and Actuators III.** S221
- 9:20 5aEAc **Engineering Acoustics, Noise, and ASA Committee on Standards: Sound Quality Engineering.** S226
- 9:20 5aNsa **Noise and ASA Committee on Standards: Environmental Noise and Regulations I.** S421
- 9:20 5aNsb **Noise: Ship Noise and Vibration I.** Hall C
- 9:20 5aNsc **Noise and Architectural Acoustics: Noise Effects on Occupant Comfort and Performance in Buildings I.** Hall B
- 9:20 5aPA **Physical Acoustics: Sound Generation, Propagation, and Scattering (Lecture/Poster Session).** S224 + S225
- 9:20 5aPP **Psychological and Physiological Acoustics: Auditory Function, Mechanisms, and Models (Poster Session).** S428

#### FRIDAY AFTERNOON

- 2:00 5pAAa **Architectural Acoustics and Psychological and Physiological Acoustics: Objective and Subjective Parameters of Spatial Impression in Performing Arts Spaces II.** Hall A
- 2:40 5pAAb **Architectural Acoustics and Psychological and Physiological Acoustics: Psychoacoustics in Rooms III (Lecture/Poster Session).** Hall A
- 2:00 5pAB **Animal Bioacoustics and Acoustical Oceanography: Acoustic Animal Tagging.** S424
- 2:00 5pBA **Biomedical Acoustics and Physical Acoustics: Acoustic Microscopy Imaging Method for Biomedical Applications II (Lecture/Poster Session).** S224 + S225
- 2:00 5pEA **Engineering Acoustics, Underwater Acoustics, and Biomedical Acoustics: Acoustic Sensors and Actuators IV.** S221
- 2:00 5pNSa **Noise and ASA Committee on Standards: Environmental Noise and Regulations II.** S421

2:00	5pNSb	<b>Noise:</b> Ship Noise and Vibration II (Lecture/Poster Session). Hall C	1:40	5pPA	<b>Physical Acoustics:</b> Negative Radiation Forces Exerted by Acoustical and Optical Beams. S223
1:40	5pNSc	<b>Noise and Architectural Acoustics:</b> Noise Effects on Occupant Comfort and Performance in Buildings II. Hall B	2:00	5pPP	<b>Psychological and Physiological Acoustics:</b> Subjective Evaluation and Auditory Perception. S428
3:00	5pNSd	<b>Noise, ASA Committee on Standards, Psychological and Physiological Acoustics, and Animal Bioacoustics:</b> Impulsive Noise Exposure Metrics: Development and Validation. Hall B			