

Announcement and Call for Abstracts



ACOUSTICS 2012
HONG KONG

Hong Kong Convention and Exhibition Centre
Hong Kong
The People's Republic of China
13 – 18 May 2012

<http://www.acoustics2012hk.org>



Deadline for receipt of abstracts: Tuesday, 15 November 2011

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ASC Co-Chair	Prof. J.Tian
HKIOA Co-Chair	Mr. Maurice Yeung
WESPAC Co-Chair	Prof. Jungyul Na

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	Dr. Peggy B. Nelson	(ASA)
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	Dr. Xiaobing Cheng	(ASC)
	Ms. Ying Li	(ASC)
	Prof. Masayuki Morimoto	(WESPAC)
	Prof. Victor A. Akulichev	(WESPAC)
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	Dr. Lixi Huang	(HKIOA)
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	Prof. Toru Otsuru	(WESPAC)

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MEETING ANNOUNCEMENT AND CALL FOR ABSTRACTS

WELCOME TO ACOUSTICS 2012 HONG KONG

THE ACOUSTICS 2012 HONG KONG Conference and Exhibition is a joint meeting including the 163rd meeting of the Acoustical Society of America (ASA), the 9th meeting of the Acoustical Society of China (ASC), the 11th Western Pacific Acoustics Conference (WESPAC), and the Hong Kong Institute of Acoustics (HKIOA) organized by the Hong Kong Institute of Acoustics. It will take place at the Hong Kong Convention and Exhibition Centre from 13 to 18 May 2012 (Sunday to Friday). The ACOUSTICS 2012 HONG KONG will provide an excellent opportunity for engineers and scientists in all fields of acoustics to learn about and share their work with colleagues from around the world. More than 10 parallel special sessions will be arranged for exchange of views and sharing of experiences.

Mardi C. Hastings
President
*Acoustical Society
of America*

Jing Tian
President
*Acoustical Society
of China*

Thomas Ho
Chairman
*Hong Kong Institute
of Acoustics*

Jungyul Na
President
*Western Pacific
Acoustics Commission*

Conference Venue

The Hong Kong Convention and Exhibition Centre (HKCEC) is one of the largest convention complexes in Asia. Conveniently located downtown on the harbor, the HKCEC is also linked to two hotels—the Grand Hyatt Hong Kong and the Renaissance Harbour View Hotel, Hong Kong—by covered footbridges and walkways. In addition to a total of over 1,400 rooms available at the Grand Hyatt and the Renaissance Harbour View, there are over 5,000 hotel rooms available within a 5- to 15-minute walking distance from the HKCEC. Subway transportation is only minutes away, and serves Hong Kong's major urban areas. The airport can readily be reached by road or express rail link in 30 minutes.

Key Dates

- 15 NOV 2011** **Deadline for Abstracts Submission and Registration by Corresponding Authors**
- 15 NOV 2011** **Deadline for Early-Bird Registration**
- 15 DEC 2011** **Notification of Acceptance of Abstracts by E-mail**
- 29 FEB 2012** **Deadline for Submission of Optional Full Papers**
- 13 APRIL 2012** **Deadline for On-line Registration Prior to the Meeting**

THE DEADLINE FOR RECEIPT OF ABSTRACTS IS TUESDAY, 15 NOVEMBER 2011. THIS DEADLINE WILL BE STRICTLY ENFORCED.

Information about the meeting also appears on the meeting Home Page at
<http://www.acoustics2012hk.org>

TECHNICAL PROGRAM AND SPECIAL SESSIONS

TECHNICAL PROGRAM

Contributed papers are welcome in all branches of acoustics. The technical program will be comprised of the special sessions listed below and contributed sessions for papers which do not fit into any of the special sessions. These sessions will be in either oral or poster format and will be scheduled Monday through Friday, 14–18 May 2012.

Every effort will be made to schedule contributed abstracts in accordance with author and Technical Committee preferences. However, authors should be prepared to accept assignment to poster sessions. Assignments will take into account: a) author preference, b) program balance, and c) Technical Committee instructions. Abstracts will be rejected if they do not comply with the instructions.

The special sessions described below will be organized by the Technical Program Organizing Committee. Authors of invited papers must indicate on their abstracts the title of the special session in which they have been invited to participate. Authors of contributed papers have the option to request placement of their abstracts in any of these sessions or in the contributed sessions of a technical area, e.g, AA, NS, etc.). If no special session placement is requested, contributed papers will be scheduled in sessions with abstracts of similar technical content.

SPECIAL SESSIONS, ORGANIZERS, AND DESCRIPTIVE SENTENCES

ACOUSTICAL OCEANOGRAPHY (AO)

New Technologies for Monitoring Fish—Active and Passive
(Joint with Animal Bioacoustics and Underwater Acoustics)
Organized by: Orest Diachok, Koji Iida, Kouichi Sawada

ANIMAL BIOACOUSTICS (AB)

Acoustic Animal Tagging
(Joint with Acoustical Oceanography)
Organized by: Christine Erbe, Tomonari Akamatsu

Biosonar
(Joint with Acoustical Oceanography, Underwater Acoustics, and
Signal Processing in Acoustics)
Organized by: Whitlow Au, Hiroshi Riquimaroux, James Simmons

Tropical and Sirenian Bioacoustics
Organized by: Thomas Norris, Kotaro Ichikawa, Junxian Shen

ARCHITECTURAL ACOUSTICS (AA)

Acoustics in Concert Halls
(Joint with Noise)
Organized by: Ning Xiang, Jiqing Wang, Zihou Meng

Classroom Acoustics in Asia
(Joint with Noise and ASA Committee on Standards)
Organized by: Kenneth Roy, Xiang Yan

Development and Applications of Micro-Perforated Sound
Absorbers
(Joint with Physical Acoustics, Noise, and Signal Processing in
Acoustics)
Organized by: Christian Nocke, Jonathan Botts

Healthcare Acoustics
(Joint with Noise)
Organized by: Kenneth Roy, Erica Ryherd, Jerry Li

DESCRIPTIVE SENTENCES

Focus on recent advances in multibeam and broadband technologies for monitoring the behavior, concentrations, and migration patterns of fish. It will include presentations on recent technical innovations and resulting discoveries about fish behavior

Methods and results of research using acoustic tags on animals

Detection, discrimination, and recognition of targets

Acoustics of terrestrial and marine animals in the tropics

Development of new design features and fundamental research in concert hall acoustics. Designs and validations of recently grand-opened venues

Acoustic and noise effects in classrooms. Topics of interest include architectural design for high performance or “green” rated schools, relationship of acoustics and student perception and performance, field case studies and research studies on noise and acoustics in schools, studies of teacher/student communications and performance

Theory and new developments of absorbers based on / derived from microperforation, various applications in different fields such as room acoustics, noise abatement, or car noise use micro-perforated structures

Acoustic and noise effects in hospitals and other healthcare facilities. Topics of interest include evidence-based design (EBD) research or case studies on acoustic conditions in hospitals, staff or patient response, and architectural or noise control treatments

ARCHITECTURAL ACOUSTICS (AA) (cont)

Multifamily Dwellings and Lightweight Structures
(Joint with Noise)
Organized by: Angelo Campanella, Jeffrey Mahn

Multiple-Microphone Measurements and Analysis in Room
Acoustics
(Joint with Signal Processing in Acoustics)
Organized by: Boaz Rafaely, Sam Clapp

Objective and Subjective Parameters of Spatial Impression in
Performing Arts Spaces
(Joint with Psychological and Physiological Acoustics)
Organized by: Michelle Vigeant, Jin Yong Jeon

Psychoacoustics in Rooms
(Joint with Psychological and Physiological Acoustics)
Organized by: Philip Robinson, Bernhard Seeber

BIOMEDICAL ACOUSTICS (BA)

Acoustic Microscopy Imaging Methods for Biomedical Applications
(Joint with Physical Acoustics)
Organized by: Jonathan Mamou, Tadashi Yamaguchi

Biomedical Ultrasound Instrumentation
Organized by: Qifa Zhou, Lei Sun

Bone Quantitative Ultrasound
Organized by: Pascal Laugier, Dean Ta

Subharmonic Contrast Imaging
(Joint with Physical Acoustics)
Organized by: Michel Versluis, Jeffrey Ketterling, Che-Chou Shen,
Hairong Zheng, Christy Holland

Ultrasound Enhanced Drug Delivery
Organized by: Constantin Coussios, Juan Tu

ENGINEERING ACOUSTICS (EA)

Acoustic Metamaterials
(Joint with Physical Acoustics)
Organized by: Thomas Howarth, Michael Haberman

Acoustic Sensors and Actuators
(Joint with Underwater Acoustics and Biomedical Acoustics)
Organized by: Michael Scanlon, Zhushi Rao, Yichun Yang

Acoustic Well Logging and Borehole Acoustics
Organized by: Xiuming Wang, Hailan Zhang

DESCRIPTIVE SENTENCES

Multifamily housing sound isolation developments and noise control issues

Recent developments in multi-microphone methods involving microphone arrays and spatial-sampling systems, applied to measurements and retrieval of complex spatial data from sound fields in rooms, including measurement systems, signal processing, and experimental investigations

Investigations of objective measures and/or subjective studies examining spatial impression, including listener envelopment and apparent source width, in classical music concert venues. Design examples of actual halls that emphasize spatial parameters are also included in this topic

Fundamental research and application of masking, speech transmission, spatial hearing, and auditory scene analysis within the context of room-acoustic environments, including but not limited to: source width, envelopment, distance perception, localization, loudness, noise, reverberance, scene analysis, speech intelligibility, and room synthesis

Recent advances in acoustic microscopy techniques for biomedical applications, fundamental methods and newest available technologies. Emphasis on all acoustic microscopy methods providing quantitative measurements

Biomedical ultrasonic instrumentation such as B-mode Doppler, ultrasonic transducer technology, and multi-modality approaches such as elastography and optical. Signal/image processing techniques as they relate to instrumentation and biomedical applications, such as blood/tissue characterization, will also be discussed

Physics of ultrasound propagation in bone (poroelasticity, scattering, guided waves, etc.) and signal processing techniques adapted to the measurement of quantitative ultrasound variables that can be used to characterize bone strength. Recent experimental findings and technological development will also be addressed

Subharmonic response of acoustic contrast agents and in the context of theoretical derivations, in vitro experimentation, small-animal imaging studies, and clinical imaging applications

Investigation of novel sono-sensitive drug carriers for targeted drug release, ultrasound-mediated mechanisms for enhanced drug uptake and ultrasound-based methods of monitoring drug delivery

The session will present leading international theoretical and experimental efforts that define and develop microscopic material compositions capable of introducing macroscopic acoustic effects

Application of acoustic sensors and actuators for the purpose of reacting to acoustic stimuli, cancelling sound and vibration, and producing mechanical effects

The application of acoustic sensing to well logging to make detailed measurements of the geologic formations penetrated by a borehole, and to maintain awareness of equipment relating to the borehole's construction and utilization

ENGINEERING ACOUSTICS (EA) (cont)

Biomedical Transducers
Organized by: Ling Xiao

Civil Non-Destructive Testing with Ultrasound or Other Non-Contact Methods
(Joint with Physical Acoustics)
Organized by: Michael Haberman, Wonkyu Moon

Flow Noise and Mitigation Methods
Organized by: Randolph C. K. Leung

Mufflers and Silencers
(Joint with Noise)
Organized by: Y. S. Choi, Y. Y. Lee

Sound Quality Engineering
(Joint with Noise and ASA Committee on Standards)
Organized by: Klaus Genuit, Kenji Ozawa

EDUCATION IN ACOUSTICS (ED)

Engaging in Effective Teaching Methods in Acoustics
Organized by: Wendy Adams, S. K. Tang

Teaching Acoustics on Both Sides of the Pacific
Organized by: Siu Kit Lau, Preston Wilson, Xiaojun Qiu

INTERDISCIPLINARY (ID)

Workshop on Publishing Excellence in the Journal of the Acoustical Society of America
Organized by: Ning Xiang, Li Cheng

MUSICAL ACOUSTICS (MU)

Acoustics of Traditional Musical Practices and Instruments
(Joint with Psychological and Physiological Acoustics and Signal Processing in Acoustics)
Organized by: Jean-Pierre Hermand, Stéphanie Weisser, Quan Zheng

Asian String Instruments
Organized by: Chris Waltham, Tianreng Hua

Asian Wind Instruments
Organized by: James Cottingham, Shigeru Yoshikawa, Yuebei Wu

Musical Timbre: Perception and Analysis/Synthesis
(Joint with Psychological and Physiological Acoustics)
Organized by: James Beauchamp, Andrew Horner

Singing Voice in Asian Cultures
(Joint with Speech Communication)
Organized by: Johan Sundberg Ken-Ichi Sakakibara, Baoqiang Han

DESCRIPTIVE SENTENCES

Transducers for physiological measurements, biomedical ultrasound, imaging, diagnostics, critical care and therapeutic equipment

Sensors and methods to inspect civil structures through non-destructive methods, including non-contact and large stand-off distance methods

Increase the understanding of flow-noise mechanisms related to both sound and vibration generation and propagation in air and water. Specific interests include source mechanisms, flow over internal and external features, turbomachinery noise, flow tones and fluid instabilities, measurement and analysis techniques, fluid-structure interaction, and mitigation methods. Computational, analytical, and experimental methods are all welcome

Devices for reducing acoustic emanations, decreased detection and annoyance from automobiles, machinery, air-handling equipment, weapons, and other noisy sources

Sound quality engineering dealing with technical and perceptual issues is one of the key tasks in the product development process. Methods, tools, approaches, and applications in the field of product sound quality engineering will be presented and discussed

Highly interactive and engaging teaching experiences, including education research related papers

Experiences on how education in acoustics at all levels has evolved and is conducted in different countries on both sides of the Pacific

The workshop will involve a number of invited speakers from JASA (including JASA Express Letters editorial board members and possibly from representative paper authors) to discuss the JASA peer-review process, the criteria for accepting manuscripts, and successful preparation of manuscripts for JASA publications

Focus on traditional non-western musical instruments and practices, investigated from a multidisciplinary angle, with methodological and theoretical frameworks developed in different disciplines (Signal Processing, Psychological and Physiological Acoustics, Musical Acoustics)

Materials, construction, vibrational analysis of sound boxes, sound radiation, string properties

Acoustical characteristics of Asian wind instruments which have design constraints different from comparable Western instruments

Timbre discrimination, classification, and dissimilarity judgment, timbral parameter estimation and visualization; timbre interpolation (morphing); and parametric sound synthesis

Special voice characteristics used in various types of vocal music in Asian cultures

NOISE (NS)

Active Noise Control
(Joint with Engineering Acoustics, Physical Acoustics, and Signal Processing in Acoustics)
Organized by: Siu-Kit Lau, Xiaoding Li, Xiaojun Qiu, Jun Yang

Aircraft Cabin Noise
Organized by: Anders Nilsson, Bilong Liu

Annoyance and Health Effects
(Joint with ASA Committee on Standards)
Organized by: Klaus Genuit, K.C. Lam, A. Lex Brown

Application of Geographic Information Systems to Manage and Control Urban Noise
Organized by: Jian Kang, C.W. Law, Xianhui Li

Assessment and Measurement of Park Soundscapes
(Joint with ASA Committee on Standards and Animal Bioacoustics)
Organized by: Paul Schomer, Andre Fiebig, K.C. Lam

Environmental Noise and Regulations
(Joint with ASA Committee on Standards)
Organized by: Robert Hellweg, Paul Schomer, Maurice Yueng, Jiping Zhang

Future of Acoustics: East and West
(Joint with Acoustical Oceanography)
Organized by: Brigitte Schulte-Fortkamp, Michael Buckingham, L. Cheng

Ground Transportation Noise
(Joint with Animal Bioacoustics, ASA Committee on Standards)
Organized by: David Woolworth, Wing Tat Hung, Ulf Sandberg

Impulsive Noise Exposure Metrics: Development and Validation
(Joint with ASA Committee on Standards, Psychological and Physiological Acoustics, and Animal Bioacoustics)
Organized by: Richard McKinley

Noise Effects on Occupant Comfort and Performance in Buildings
(Joint with Architectural Acoustics)
Organized by: Lily Wang, C. M. Mak

Noise Source Localization
Organized by: David Woolworth, Jun Yang, S. K. Tang

Numerical Methods in Noise
Organized by: R. C. K. Leung, Ke Liu

Ship Noise and Vibration
Organized by: Lin He, Changgeng Shuai

Soundscape and Its Application
(Joint with Architectural Acoustics, Animal Bioacoustics, and ASA Committee on Standards)
Organized by: Brigitte Schulte-Fortkamp, K.C. Lam

DESCRIPTIVE SENTENCES

Successful applications of active noise control depend on advanced technologies in signal processing, error sensing methods, placement of sources and sensors, etc. This session will discuss all topics regarding active control of sound and vibration

Forum for technical presentations and exchange of ideas on technology developments that should lead to significant advances in comfort of aircraft cabins. Information from the session is expected to be useful in reducing the cost, increasing the affordability, and improving the acoustic performance

Noise may cause human annoyance and excessive exposure to noise will have an adverse effect on human health

Application of Geographic Information Systems (GIS), noise mapping, and related techniques for the management and control of noise in various urban structures and cultures

Methods to measure and assess park soundscapes and results of such research

Successful environmental noise regulations and the role of standards

Talks to suggest the future of acoustics will include ASA, ASC, HKIOA, and WESPAC including a panel

Measurement, prediction, and control of noise from road and rail sources. This session will also present the latest progress and review the state-of-the-art of low noise road surfaces

Impulsive noise presents a specific and unique challenge in the development and validation of hearing damage risk criteria. Current metrics as well as the development of new metrics/exposure criteria, and data for validation of their metrics

Explore the ways in which building affects the comfort of people inside and their performance of tasks

Advanced techniques in locating airborne, stationary, and moving noise sources

Many numerical techniques have been developed for the computation of noise radiation, generation, and propagation in air, water, and solid. Session will review these techniques and at the same time explore new approaches

Focus on the generation and propagation mechanisms of sound and vibration in ships and water, including flow-noise, propulsion shafting, large machinery and complex structures of ships. Development of the measurement, prediction, design, and control techniques for low-noise ships. Computational, analytical, and experimental methods are all welcome

Soundscape will be applied in community noise regulations as well as in urban planning

NOISE (NS) (cont)

Vibration and Structure-Borne Noise in Buildings
(Joint with Structural Acoustics and Vibration and
Architectural Acoustics)
Organized by: James Philips, C. M. Mak

Vibration Damping in Noise Control
(Joint with Structural Acoustics and Vibration)
Organized by: Wilson Ho

PHYSICAL ACOUSTICS (PA)

Acoustic Micro- and Nanofluidics
(Joint with Biomedical Acoustics)
Organized by: John Allen, Richard Manasseh, James Friend

Emerging Technologies and Concepts in Ultrasonics
(Joint with Engineering Acoustics)
Organized by: Preston Wilson, Won Suk Ohm

Metrics and Objectivity in Cavitation Research
(Joint with Biomedical Acoustics)
Organized by: Charles Church, Gail ter Haar, Suk Wang Yoon

Negative Radiation Forces Exerted by Acoustical and Optical
Beams
Organized by: Philip Marston, Jack Ng

Sonoluminescence
Organized by: Lawrence Crum, Juan Tu, W. Z. Chen

PSYCHOLOGICAL AND PHYSIOLOGICAL ACOUSTICS (PP)

Cortical Neuroimaging Techniques in Auditory Perception and
Cognition
Organized by: Adrian (KC) Lee, Lin Chen

Current Issues in Auditory Cortex Physiology
Organized by: Christoph Schreiner, Jufang He

Open Challenges in Auditory Scene Analysis
(Joint with Animal Bioacoustics)
Organized by: Mounya Elhilali, Daniel Pressnitzer, Bosun Xie

Psychological and Physiological Basis of Tonal Language
Processing
(Joint with Signal Processing in Acoustics)
Organized by: Fan-Gang Zeng, Michael Tong

Release from Masking in Listeners with Normal and Impaired
Hearing
Organized by: Ruth Litovsky, Liang Li

STRUCTURAL ACOUSTICS AND VIBRATION (SA)

Energy Based Methods in Structural Acoustics
Organized by: Wen Li, M. N. Ichchou, Fusheng Sui

Machinery Noise and Vibration
(Joint with Noise)
Organized by: Zhuang Li, Hongwei Liu

Noise Control Methods for Aerospace Structures
(Joint with Noise)
Organized by: Gopal Mathur

DESCRIPTIVE SENTENCES

Analysis, measurement, and control of vibration and structure-borne noise inside buildings from sources outside and within those buildings

Vibration dampers have been used very frequently in controlling the radiation of noise in both the outdoor and indoor environment. Session will explore the effectiveness and advanced techniques in vibration damping

Incorporation of ultrasonics techniques and technologies in micro- and nanofluidic devices and systems

New ultrasonic concepts and techniques applied to industry and medicine

How the chosen definition of cavitation influences the interpretation and quantification of its physical, chemical, and biological effects

Closely related recent discoveries in acoustics and optics have revealed the surprising result that time dependent propagating beams with certain time-dependent and spatially dependent shapes can cause a backward directed force to be exerted on small objects embedded in the medium

Production of sonoluminescence and sonochemistry in liquids

Exploring ways in which the strengths of different neuroimaging techniques (such as EEG, MEG, and fMRI) can be used to uncover the role of auditory cortex in auditory perception and cognition

Recent developments in understanding the structure and function of auditory cortex

Current challenges and articulate promising new directions in psychological, physiological, and computational approaches to solving the scene analysis problem

Exploring the role and coding of pitch in speech, and its implications for auditory prostheses

Focus on recent studies related to speech perception in the presence of interfering speech or noise, and the effects of hearing impairment on the ability of listeners to exhibit release from masking

Analysis and experimental methods for determining the energy distributions and flows in mechanical and structural systems. Energy based methods and statistical techniques for structural and wave propagation are encouraged

Noise and vibration issues associated with machinery, such as noise and vibration source identification, noise and vibration control, quiet machine design, health monitoring, and signal processing

Aircraft, launch vehicles, rotorcraft, etc.

SPEECH COMMUNICATION (SC)

Speech Perception and Early Language Development:
Cross-Linguistic Studies of English, Cantonese,
and Mandarin
Organized by: Benjamin Munson, Estella Ma

SIGNAL PROCESSING IN ACOUSTICS (SP)

Model-Based Processing and Analysis
(Joint with Acoustical Oceanography and Underwater Acoustics)
Organized by: Ning Xiang

UNDERWATER ACOUSTICS (UW)

Advances in Underwater Acoustic Communication and Networking
(Joint with Signal Processing in Acoustics)
Organized by: Daniel Rouseff, Wen Xu, James Preisig

Rough Interface Scattering from Ocean Boundaries
(Joint with Acoustical Oceanography and Physical Acoustics)
Organized by: Marcia Isakson, Zhaohui Peng, Jin-Yuan Liu

Sediment Acoustics of Continental Shelves
(Joint with Acoustical Oceanography and Physical Acoustics)
Organized by: Nicholas Chotiros, Ji-xun Zhou, Shengchun Piao,
Zhenglin Li

Session in Honor of Barry Uscinski
(Joint with Acoustical Oceanography)
Organized by: Michael Buckingham, Terry Ewart

Time Series Analysis and Data Processing in Underwater Acoustics
(Joint with Signal Processing in Acoustics)
Organized by: Nicholas Chotiros, Chao Sun

Underwater Acoustics in Asian Marginal Seas: Field Experiments
and Modeling
(Joint with Acoustical Oceanography)
Organized by: Peter Dahl, David Bradley, John Colosi, Peter
Worcester, Jeewong Choi, Fenghua Li

Waveguide Invariance Characterization and Processing
(Joint with Signal Processing in Acoustics)
Organized by: Kevin LePage, Lisa Zurk, Alex Sell, Shihong Zhou

HOT TOPICS

Community Noise Policy Development
Organized by: Marion Burgess, Aaron Lui

DESCRIPTIVE SENTENCES

Behavioral and neurophysiological studies of the development of
speech perception and spoken language in the three languages of
Hong Kong

Signal processing methods based on (not limited to) physical
models, parametrical models, and other types of models in
application of acoustics

Single- and multi-carrier methods in high data rate wireless
communications. Self-organizing, adaptive, or distributed undersea
networks

The effect of rough interface scattering on the reflection,
backscattering, and propagation of acoustic waves in shallow water
waveguides from the air/water interface, fluid type ocean bottoms,
elastic type ocean bottoms, and layered bottoms

Measurement, modeling, and inversion of sediment acoustic
properties of continental shelves. Processing techniques that
exploit active or passive waveguide invariance for detection,
classification, and tracking

Session honoring the contributions of Barry Uscinski in the field of
underwater acoustics

Both active and passive time series and data processing in
underwater acoustics applications are solicited. The passive
application may include noise or sources of opportunity such as
marine mammal vocalizations, and the active applications may
include large time bandwidth signals. Common issues include
dynamic range considerations and data compression

Field measurements and modeling of underwater acoustic
propagation and scattering phenomena with focus on Asian
marginal sea environments

Characterization of invariance as a function of environment and
aperture

Development of policy, guidelines and directives in the planning,
control and abatement of the various types of noise affecting the
community. Main sources of community noise include road, rail, air
traffic, industry, construction and public work, and the
neighborhood.

OTHER TECHNICAL EVENTS AND INFORMATION

KEYNOTE LECTURES

Four keynote lectures will be scheduled for presentation during the meeting.

STUDENT DESIGN COMPETITION

The 2012 Student Design Competition will be displayed and judged at ACOUSTICS 2012 HONG KONG. The Competition is intended to encourage students in the disciplines of architecture, engineering, physics, and other curriculums that involve building design and/or acoustics to express their knowledge of architectural acoustics and noise control in the design of a facility in which acoustical considerations are of significant importance. It is sponsored by the Technical Committee on Architectural Acoustics, with support from the Wenger Foundation, the Robert Bradford Newman Student Award Fund, and the National Council of Acoustical Consultants.

Entries may be submitted by individual students or by teams of a maximum of three students. Undergraduate and graduate students are encouraged to participate. Students must be enrolled in either the Fall 2011 Term or Spring 2012 Term to be eligible to enter. The competition will be a poster session. All competition entries will respond to a design scenario that will be announced in the Fall of 2011. Information about the design scenario and registration for the competition will be available on the website of the Newman Fund, <http://www.newmanfund.org>.

TECHNICAL TOURS

Several technical tours are planned during the conference. Information is available at the following link:

<http://www.acoustics2012hk.org/>

EXHIBITION

The meeting will be highlighted by an exhibition. The exhibition will cover **ALL AREAS OF ACOUSTICS** (instruments, equipment, software, services, etc.). The exhibition will be held in the Convention Foyer which is conveniently located near Convention Hall and the registration area. In order to improve contact between the participants and the exhibitors, both morning and afternoon coffee breaks will be held in the exhibition area.

The exhibition will open on Monday, 14 May 2012, and will close on Wednesday, 16 May 2012. Additional information is available at the following link under Sponsors and Exhibitions:

<http://www.acoustics2012hk.org/>

Alternatively, information can also be obtained by contacting the responsible conference personnel:

email: exhibition@acoustics2012hk.org

MEETING PROGRAM

A meeting program will be published by ASA as part 2 of the April 2012 issue of the Journal of the Acoustical Society of America (JASA) and also by the Hong Kong Institute of Acoustics. Abstracts will also be available on the Acoustical Society of America's website around April 2012: <http://www.acousticalsociety.org>

CONFERENCE PROCEEDINGS

The Meeting Program will contain all abstracts. Authors will also be given the option to submit extended papers to the Conference Proceedings of ACOUSTICS 2012 HONG KONG. Please note this is an option as it is not required to submit a 6-page paper. The abstracts and proceedings will be published on CD-ROM and distributed at the conference to all participants. The deadline for submission of the full papers is 29 February 2012. Authors must prepare their papers in accordance with the templates provided on the conference website and then upload them into the conference database. Detailed instructions on the paper submission procedure and template are given at the following link under Instruction to Authors: <http://www.acoustics2012hk.org/>

ABSTRACT SUBMISSION GUIDELINES

ABSTRACT SUBMISSION GUIDELINES

ALL ABSTRACTS MUST BE SUBMITTED ONLINE BY TUESDAY, 15 NOVEMBER 2011. FACSIMILE TRANSMITTED ABSTRACTS OR ABSTRACTS SENT BY E-MAIL OR BY POSTAL MAIL WILL NOT BE ACCEPTED.

This deadline will be strictly enforced. It will not be possible to submit abstracts after 15 November 2011. The language for all abstracts is English. Every abstract must be between 100 and 200 words, whether invited or contributed. **ABSTRACTS THAT DO NOT COMPLY WITH THESE LIMITS WILL NOT BE ACCEPTED BY THE SYSTEM.**

Each abstract is associated with a « **corresponding author** » who is not required to be the first author. **The corresponding author MUST REGISTER before submitting any abstract.**

When registered, the corresponding author will create an ACOUSTICS 2012 HONG KONG registration account online. Using the author's email address as login identifier, the corresponding author can submit **one abstract** (or a maximum of three abstracts after paying an extra fee for each additional abstract; hard limit of two for students).

Corresponding authors submitting abstracts will receive an email acknowledgment.

While authors may indicate a preference for presentation style, it may not always be possible to honor the request. Authors should be prepared to accept assignment of their abstracts to either lecture or poster presentation. Authors contributing papers in Speech Communication are encouraged to select poster presentation.

Authors must indicate compliance with the Ethical Principles of the Acoustical Society of America for Research Involving Human and Animal Subjects in Research and Publishing and Presentations

LIMITATION ON THE NUMBER OF ABSTRACTS

Due to the size of the event, and to the emphasis on students' participation, each corresponding author may submit a maximum of three abstracts (corresponding authors who registered as students are limited to a maximum submission of two abstracts). [Note: A corresponding author is the author who submits the abstract and receives all correspondence related to the abstract.]

The registration fee paid by the corresponding author covers only his/her first abstract. Corresponding authors (including students) who wish to submit additional abstracts must pay a fee of USD \$550 for each additional abstract.

Payment of the additional fee applies only to the corresponding author of each paper. You may be a coauthor (and not a corresponding author) on as many abstracts as desired without your payment of the additional fees.

ONLINE PROCEDURES SHORT FORM

ALL PROCEDURES concerning the conference (registration, payment, abstract and full paper submission) MUST BE CARRIED OUT ONLINE.

In order to automate the whole process, each participant must first create an ACOUSTICS 2012 HONG KONG registration account. The submitted e-mail address is the **REGISTRATION IDENTIFIER**. The automatic procedure will be achieved as follows:

- 1- **REGISTER** (name, address, email, etc.)

REGISTER FOR ALL OTHER SERVICES: accompanying person, banquet tickets, etc. Participant must first create an ACOUSTICS 2012 HONG KONG registration account by submitting the corresponding information including name, e-mail address, and postal address. The e-mail address will be used as the login identity of the participant who will be required to set a login password.

A **CONFIRMATION EMAIL** will be sent to the e-mail address provided in item 1. Please keep this information for future contacts.

- 2- **PAY REGISTRATION FEES:** A secure credit card payment system is available via PayPal and is the preferred method of payment. Bank transfers are also accepted. Please contact the Conference Secretary at secretary@acoustics2012hk.org to obtain the details for making payment by wire transfer (deadline for registration and payment by corresponding authors submitting abstracts: 15 November 2011). For on-line payment, a **CONFIRMATION OF RECEIPT** will be sent to your e-mail address.
- 3- **SUBMIT an ABSTRACT** (deadline: 15 November 2011): The corresponding author for each paper must register and pay the registration fee before submitting the abstract. After completing registration, corresponding authors should log on to the ACOUSTICS 2012 HONG KONG registration system to submit the abstract online.
- 4- **ACKNOWLEDGMENT OF RECEIPT OF ABSTRACTS:** A passcode will be issued for each submitted abstract, and constitutes an acknowledgment that the abstract has been received by the system. This passcode will be provided on screen in the final step of the submission process. Thereafter, a separate email acknowledgment will also be sent to the corresponding author. If you do not receive the acknowledgment as described above, your abstract has not been successfully submitted. Please contact the Conference Secretary at secretary@acoustics2012hk.org immediately if you have submitted an abstract and do not receive an immediate email acknowledgment of receipt or an error message.
- 5- **REVISION OF ABSTRACTS:** To revise an abstract, use the link contained in the e-mail message confirming receipt of the abstract. Alternatively, go to the Registration page and click "passcode link" under "Abstract Submission."
- 6- **ACCEPTANCE NOTICES** will be sent to corresponding authors by 15 December 2011 via email.
- 7- **SUBMIT A FULL OPTIONAL PAPER:** upon acceptance, the corresponding author will be given the opportunity to submit an optional full paper (deadline: 29 February 2012).

AUDIO-VISUAL AND SPECIAL EQUIPMENT

AUDIO-VISUAL EQUIPMENT

PC computers with stereo audio playback capability and video projectors, as well as laser pointers will be provided in all lecture sessions. Computers will be provided with software required for presentation: PowerPoint, Acrobat Reader and Windows Media Player. Note that Mac computers will not be provided.

All other equipment or software is considered to be special equipment. Please refer to the "Special Equipment" section below for additional information.

PROJECTION GUIDELINES

A PC computer with stereo audio playback capability and projector will be provided in each meeting room on which all authors who plan to use computer projection will load their presentations. Authors should bring computer presentations on a CD ROM or USB drive to load onto the provided computer and should arrive at the meeting rooms at least 30 minutes before the start of their sessions. If really needed, the authors also have the option to connect their own laptops to the projector. Assistance in loading presentations onto the computers will be provided.

Note that only PC format will be supported so authors using Macs must save their presentations for projection in PC format. Also, authors who plan to play audio during their presentations should insure that their sound files are also saved on the CD or USB drive. Detailed instructions are provided at the following link:

<http://www.acoustics2012hk.org/instruction.php>

SPECIAL EQUIPMENT

Any equipment or software other than the ones described in the previous section is considered as "special equipment." Requests for special equipment (e.g., additional software, overhead transparency projector) must be specified when submitting the abstract. Provision of unusual special equipment will depend upon availability and cost and you will be notified by email.

POSTER SESSION BOARDS

Poster boards and fastening materials will be provided. Posters will be 1 meter by 1.5 meters and hung vertically. The instructions for poster preparation will be provided on the following link:

<http://www.acoustics2012hk.org/instruction.php>

AUDIO/VISUAL PREVIEW ROOM

Computer presentations can be reviewed by authors in the audio/visual preview room at the meeting.

ASA BEST PAPER AWARDS FOR STUDENTS AND YOUNG PRESENTERS

A Best Paper Award competition will be organized by several Technical Committees of ACOUSTICS 2012 HONG KONG. These competitions are open to all students. If you want your presentation to be considered for an award, you must indicate that when you submit your abstract. Please read the entry qualifications on the website to be sure that you are eligible and follow the instructions for entering the individual Technical Committee competitions. Detailed information is provided on page 19.

SPECIAL MEETING FEATURES

TRAVEL GRANTS AND REGISTRATION FEES FOR STUDENTS

Grants to pay student registration fees will be offered by the Acoustical Society of China, the Acoustical Society of America (ASA), and the Hong Kong Institute of Acoustics. Applicants should visit the websites of these organizations for information. The ASA will provide limited funds to some students to partially defray transportation expenses to the conference. To apply for a subsidy, submit a proposal by e-mail to be received by 9 April 2012 to: Jolene Ehl, jehl@aip.org. The proposal should include your status as a student, your institution; whether you have submitted an abstract; if you are a member of ASA; method of travel; and approximate cost of transportation.

ACCOMMODATIONS FOR STUDENTS

Special reservations for accommodations are available for students at the ACOUSTICS 2012 HONG KONG. Reservation information may be found at <http://www.acoustics2012hk.org>

STUDENT RECEPTION

A reception for students will be held on Monday, 14 May 2012. There is no fee to attend this reception. A reception ticket will be issued to all registered students.

SOCIAL EVENTS

(Times are subject to change and should be checked in the final Meeting Program)

Several social events are planned at ACOUSTICS 2012 HONG KONG. Some events will be open to all participants, and participation in others requires a reservation.

Events open to **all** participants:

- **Opening Ceremony:** Sunday, 13 May 2012 (3:00 p.m. to 5:00 p.m.)
- **Cocktail Reception:** Sunday, 13 May 2012 (5:30 p.m. to 6:30 p.m.)
- **Exhibitors' Reception:** Tuesday, 15 May 2012 (5:30 p.m. to 6:30 p.m.)
- **Closing Ceremony:** Friday, 18 May 2012 (5:00 p.m. to 6:30 p.m.)

Events available upon reservation:

- **Students Reception:** Monday, 14 May 2012 (5:30 p.m. to 6:30 p.m.), free for all registered students
- **Conference banquet:** Wednesday, 16 May 2012 (7:00 p.m. to 9:30 p.m.), preregistration required
- **Women in Acoustics luncheon:** Wednesday, 16 May 2012 (12:00 noon to 2:00 p.m.). Preregistration required

For all events requiring reservations, registration MUST be made online before 15 December 2011. After 15 December 2011, reservations can only be accepted on a space-available basis.

AWARDS CEREMONY

The Plenary Session will be held on Wednesday afternoon, 16 May 2012. Awards will be presented by the Acoustical Society of America and the Acoustical Society of China. New Fellows will also be recognized.

SPONSORSHIP

Companies or institutions wishing to sponsor ACOUSTICS 2012 HONG KONG are warmly welcomed. There are a great variety of ways to sponsor. Additional information can be obtained by contacting the responsible personnel of the conference: **email: sponsor@acoustics2012hk.org**

TRANSPORTATION AND TRAVEL INFORMATION

VISA REQUIREMENTS

Hong Kong has a liberal visa policy. Nationals from more than 170 countries can visit Hong Kong visa free. To check whether you need a visa to enter Hong Kong or not, please visit

http://www.immd.gov.hk/ehhtml/hkvisas_4.htm

If a visa is required, then an application for the appropriate visa or entry permit should be obtained from the nearest Chinese diplomatic and consular mission. As an alternative, you may also submit your visa or entry permit application to the HKSAR Immigration Department either directly by post or through a local sponsor.

AIR TRANSPORTATION

Hong Kong is a major transportation hub located at the heart of Asia. There are over 60 international airlines serving over 130 destinations worldwide. More than 50% of the world's population is within 5 hours' flying time of Hong Kong. The state-of-the-art Hong Kong International Airport at Chek Lap Kok operates 24 hours a day. The highly developed transportation network in Hong Kong makes it very easy to get to and from the airport.

More information about the airport and flights is available at <http://www.hongkongairport.com/eng/index.html>

GROUND TRANSPORTATION

The Hong Kong Convention and Exhibition Centre (HKCEC) is located in the heart of Hong Kong fronting Victoria Harbour, and has convenient transportation connections around the city.

Taxis: A taxi ride from the Hong Kong International Airport to the Hong Kong Convention and Exhibition Centre costs around HK\$ 285 and takes approximately 40 minutes. Urban taxis are red. The current rates are HK\$20 for the first two kilometers and HK\$1.50 for each additional 0.2 kilometer travelled. Additional charges for luggage and tolls may apply. Further information is available on the following link:

<http://www.hongkongairport.com/eng/transport/to-from-airport/taxi.html>

Airport Express: Airport Express is the fastest train service connecting the Hong Kong International Airport and downtown Hong Kong. It takes passengers to Central in just 24 minutes. Trains depart every 12-minutes from 0550 to 0115 hours daily, with the last train leaving the Airport Station at 0048 hours. A complimentary connecting bus service is provided for Airport Express passengers. Passengers can enjoy free bus service from Hong Kong Station (Bus no. H1) to HKCEC. The exit bus stop is located at the HKCEC's Harbour Road Entrance. You can also interchange there to take the MTR Island line to get to the MTR Wan Chai Station.

Hong Kong Station (Interchange to the Island Line) --> Take the free shuttle bus to HKCEC

Hong Kong Station (Interchange to the Island Line) --> Central Station --> Wan Chai Station -->Walk to HKCEC

To learn more, please visit http://www.mtr.com.hk/eng/airport_express/intro_index.html.

Mass Transit Railway (MTR): MTR is the main public transportation in the urban area. The Wan Chai Station is the closest MTR station to HKCEC and is about a 10 minutes walk to HKCEC.

You can download the MTR map from the link: <http://www.mtr.com.hk/jplanner/images/maps/routemap.pdf>.

Ferry: The Star Ferry, a Hong Kong ferry service, operates a route from the HKCEC across Victoria Harbour: Visitors can take the star ferry from Tsim Sha Tsui Star Ferry Pier to the HKCEC. It is about a 5-minute walk to the HKCEC.

Bus: You can take a bus from the airport (Ground Transportation Centre) to a bus stop which is about a 10-minute walk to HKCEC. Several buses are listed below:

Bus No.	A11	A12	E11	N11(Overnight Services only)
Get off at	Fleming Road, Hennessy Road	Immigration Tower, Gloucester Road	Fleming Road, Hennessy Road	Bank of East Asia Harbour View Centre, Gloucester Road

For more details, please visit <http://www.nwstbus.com.hk> or <http://www.kmb.hk>

Shuttle bus: Hotel coaches are available to take passengers to and from major hotels in Hong Kong. If you want to use this service, visit the following service counters inside the Coach Station of Terminal 2. Further information is available on the following link:

<http://www.hongkongairport.com/eng/transport/to-from-airport/hotel-shuttle-bus-limousine.html>

TRAIN INFORMATION

The Mass Transit Railway (MTR) also provides intercity passenger services between Hong Kong and the Mainland with three Through Train routes, namely the Beijing line, the Shanghai line and the Guangdong line. The Guangdong Through Train operates between Hung Hom and Dongguan (Changping), Guangzhou East, Foshan and Zhaoqing. Further information is available on the following link:

http://www.mtr.com.hk/eng/homepage/cust_index.html

To learn more about Transportation in Hong Kong, please visit the link below:

<http://www.discoverhongkong.com/eng/trip-planner/transport.html>

CAR RENTAL AND PARKING

Car rental agencies have offices at the airport, however car rental is discouraged as Hong Kong is a busy metropolitan city. Driving is on the left side of the road. Parking close to HKCEC is available in the two underground car parks located at Harbour Road and Expo Drive Central. The parking fee is USD \$6 per hour.

HONG KONG INFORMATION

Weather - Hong Kong in May is usually sunny with average high and low temperatures of around 83 F and 75 F (28.4 C and 23.9 C) during the day. Showers may occur with an average precipitation of 2.3 inches (59 mm). You can get detailed information about weather at <http://gb.weather.gov.hk/contentc.htm>

Local Time – Hong Kong Time is Greenwich Mean Time (GMT) +8:00 hours or Universal Standard Time (UST) +8:00 hours. Hong Kong has no daylight saving hours. Participants flying over the Pacific Ocean need to note that the international dateline may affect arrival dates.

Currency and foreign exchange - The local currency is the Hong Kong dollar (\$). Currency can be exchanged at some banks and, main railway stations, airports, and near tourist attractions. Please note: although the exchange rate is fixed, commission rates are not. They have to be clearly displayed.

Banking and credit cards - Banks are open generally from 9:00 am to 5:00 pm with an optional break at lunch time, from Monday to Saturday morning. Automatic Teller Machines (cash dispensers) can be found almost everywhere and accept most international cards (Visa, Eurocard, and Mastercard). In shops and restaurants, mainly Visa, Eurocard, and Mastercard are accepted. American Express cards are also accepted in several places (but not all, please check signs at the entrance).

Electricity - The power supply is 220V, 50 Hz. The plug/socket system is a 3-rectangular-pin (Type G, British BS-1363). Check your computers and cell phone chargers to see if they can operate at this voltage. Appliances designed to operate only at 110/120V require a voltage converter and a plug adapter.

Restaurants – Hong Kong offers a large variety of restaurants. Typical lunch time is 12:30 p.m. and dinner 8:00 p.m. **Useful links** - For the latest information about the city of Hong Kong, please visit the following links:

<http://www.discoverhongkong.com/eng/index.html>

HOTEL RESERVATION INFORMATION

Arrangements with five hotels have been made for participants at the ACOUSTICS 2012 HONG KONG (all prices are in Hong Kong Dollars):

Hotel	Room Type	Room Type
Grand Hyatt Hong Kong	\$3,000/night (Grand Room)	\$3,400/night (Grand Harbour View Room)
Renaissance HK Harbourview Hotel	\$1,500/night (Garden View)	\$2,100 (Harbour View Room)
The Harbourview	\$800/night (Premier Room)	\$1,000/night (Premier Harbour View Room)
Regal Hong Kong Hotel	\$1,250/night (Superior)	-
Regal iClub Hotel	\$1,000/night (iSelect Room)	-

Reservation information may be found at <http://www.acoustics2012hk.org/hotel.php>

Please note that all rates quoted are made for delegates and their companions attending the ACOUSTICS 2012 HONG KONG Conference. It is recommended that reservation of hotel rooms should be made as soon as possible since blocks of rooms have been reserved. Also please take note that each hotel has its own terms and conditions for payments to guarantee reservations and rates. Please download the hotel room booking form from the website above and send in the form to selected hotel DIRECTLY.

All hotel rooms can be reserved direct with the hotels listed above. A limited number of rooms in each of the listed hotel has been reserved for attendees of the ACOUSTICS 2012 HONG KONG Conference. Rooms will be allotted on a first come first served basis.

OTHER HOTELS

In order to facilitate online reservations for hotels, a Google map with the list of Hotels and their locations in the vicinity of the Hong Kong Convention and Exhibition Centre can be found at the following link.

A Google map showing hotel locations can be found on the conference website:

http://www.acoustics2012hk.org/day_conference_venue_and_hongkong.php

GENERAL INFORMATION

COMMITTEE MEETINGS

Meetings of Administrative, Technical and Standards Committees, including Working Groups, will be announced in the printed program if requests are received not later than 15 December 2011. Requests for meeting space, special luncheons, etc., should be made as early as possible to Elaine Moran, Acoustical Society of America, asa@aip.org who will transfer it to the Conference Secretariat. Requests must be made by e-mail (not by phone), and should specify the committee's needs for space, room arrangement, furnishings, catering, and any special equipment. Reservations will not be taken directly by the Conference Secretariat. Requesters should note that space is limited, and that late requests can be filled only on a space-available basis.

ACCOMPANYING PERSONS PROGRAM

Spouses and other visitors are welcome at ACOUSTICS 2012 HONG KONG meeting. Accompanying Persons must register together with the delegates or students online at <http://www.acoustics2012hk.org>. A hospitality desk for accompanying persons will be open at the Conference site from 8:00 a.m. to 11:00 a.m. on Monday, 14 May 2012 through Friday, 18 May 2012. In order to guarantee a place for the tour, it is recommended that reservation is made prior to coming to the conference. All reservations shall be made directly with **Momentous Asia Travel & Events Company Limited**.

In addition to the meeting events including the opening ceremony, welcoming reception, awards ceremony, daily coffee and tea breaks, and the closing ceremony. Accompanying Persons are welcome to participate in tours. Several tours are also available as listed below. Full descriptions of the tours and the booking form can be found on the conference webpage:

<http://www.acoustics2012hk.org/tour.php>

Tour 1: Cultural and Heritage Tour – 13 May and 16 May

Victoria City (Central) Historical Walk

Minimum group size: 10 Cost: USD 35.00 / person Duration: Half Day (around 4 hours)

Tour 2: Six Days War of 1899 and Heritage of the New Territories – 13 May and 15 May

Minimum group size: 10 Cost: USD 100/person Duration: Full day (around 7 hours) with lunch

Tour 3: Shopping and Beauty – 14 May and 17 May

Minimum group size: 10 Cost: USD85/person Duration: Half day (5 hours)

Tour 4: Explore daily life of the locals – 13 May and 17 May

Minimum group size: 10 Quotation: USD96/person Duration: Full day (around 6 hours) with lunch

Tour 5: The Great Outdoor: Explore Cheung Chau with Dr M Williams, BBC Reporter and writer–14 May and 16 May

Minimum group size: 10 Quotation: USD120/person Duration: Full day (around 7 hours) with lunch

Tour 6: One day tour to the Historical Centre of Macau – 16 May and 18 May

Minimum group size: 10 Quotation: USD120/person (inclusive of round trip ferry tickets) Duration: Full day (around 8 hours) with lunch

Conference official travel agent: MOMENTOUS ASIA TRAVEL & EVENTS COMPANY LIMITED (Licence No: 353406)

Room 1205, 12/F., Block A, On Ping Street, New Trade Plaza, Sha Tin, New Territories, Hong Kong
Tel: (852) 2369 1698; Fax: (852) 2369 2060; E-mail: info@momentousasia.com

POST MEETING TOUR

Please visit the ACOUSTICS 2012 HONG KONG website in December 2011 for full details.

REGISTRATION INFORMATION

REGISTRATION AND PAYMENT MUST BE MADE ONLINE AT THE FOLLOWING LINK
<http://www.acoustics2012.org>

It will be possible to register online up to 13 April 2012.

On-site registration will be possible but advance registration is highly recommended. The on-site registration desk will open on Sunday, 13 May 2012 (2:00 p.m. to 6:00 p.m.), in the Convention Foyer of the Hong Kong Convention and Exhibition Centre and will be available from 8:00 a.m. to 4:00 p.m. during the entire week. Registration fees are given in the table below.

ALL amounts are given in US Dollars

No tax to be added.

Credit card is the preferred method of payment.

Our secure system accepts the following cards: **VISA, MASTERCARD**, and **AMERICAN EXPRESS**

CATEGORY	Early Bird REGISTRATION by 15 November 2011	REGISTRATION after 15 November 2011
Full Registration for Delegate	\$700	\$800
Students * with current ID cards	\$300	\$350
Accompanying Persons	\$150	\$150
Banquet tickets	\$100	\$100
Women in Acoustics luncheon (limited to 100 participants)	\$20	\$25
Women in Acoustics luncheon - students *	\$10	\$10

* Active students or young investigators who obtained their Diploma (Bachelor, Master, PhD) less than a year ago.

CANCELLATION POLICY

A handling fee of 20% will be charged for cancellations received before 15 February 2012. No refunds of registration fees will be made for a cancellation received on or after 15 February 2012.

Abstracts and papers of cancelled corresponding authors will not be published or scheduled for presentation.

REFUNDS

Refunds of registration fees will be made within a month commencing 15 December 2011 to corresponding authors whose abstracts have not been accepted by the Technical Program Organizing Committee for presentation at ACOUSTICS 2012 HONG KONG.

ASA BEST PAPER AWARDS FOR STUDENTS AND YOUNG PRESENTERS

Several of the Acoustical Society of America ASA Technical Committees offer Best Paper Awards to students and young presenters who present papers at Society meetings. If you want your paper to be considered for an award, you must indicate this when you submit your abstract. Follow the instructions for the appropriate technical area that appear below.

ASA BEST STUDENT PAPER AWARDS

COMMITTEES OFFERING THESE AWARDS:

Acoustical Oceanography, Animal Bioacoustics, Architectural Acoustics, Engineering Acoustics, Musical Acoustics, Speech Communication, Structural Acoustics and Vibration, and Underwater Acoustics

AWARD AMOUNTS:

For each of the Technical Committees granting awards, up to two awards will be presented to students presenting papers in sessions organized by the specific Technical Committee: \$300 USD for first prize and \$200 USD for second prize.

QUALIFICATIONS:

To qualify for each of these awards, an author must:

- be enrolled as a student at least half-time (graduates are eligible if the work being presented was performed as a student within one year of the meeting). Note that you do not need to be a member of the ASA to qualify.
- be listed as the first author on the submitted abstract
- present the paper at the meeting
- submit a copy of the presentation materials or a written text to the online meeting papers website prior to the start of the meeting, <<http://scitation.aip.org/asameetingpapers/top.jsp>> (this is not required for papers presented in a poster session and/or for entries in Acoustical Oceanography, Animal Bioacoustics, Speech Communication and Underwater Acoustics)

SELECTION:

The award winners will be selected by a subcommittee of each of the Technical Committees granting awards, based upon the quality of both the content of the paper and its presentation. The awards will be announced either at the meeting of the Technical Committee or after the close of the meeting.

APPLICATION:

All those who wish to participate in the competition for these awards must indicate their intention to enter the competition during the abstract submission process by clicking the entry box on the online submission form.

For (name of appropriate Technical Committee) Best Student Paper Award

ASA BEST "OUTSTANDING PAPER BY A YOUNG PRESENTER" AWARDS

Note that you need not be a student to qualify for these two awards.

COMMITTEES OFFERING THESE AWARDS:

Noise and Signal Processing in Acoustics

AWARD AMOUNTS:

Noise - Up to three awards of up to \$250 USD each will be given for outstanding papers presented in sessions organized by the Technical Committee on Noise.

Signal Processing - One award of \$500 USD will be given for outstanding paper presented in a session organized by the Technical Committee on Signal Processing in Acoustics.

QUALIFICATIONS:

To qualify for an award, an author must:

- be under 30 years of age as of 1 January 2012
- be listed as the first author of the paper and actually present the paper

SELECTION:

Selection of the award winners will be based on the quality of the presented paper, comprising both the content and its delivery. The award winners will be chosen by a subcommittee of the Technical Committee and will be announced after the close of the meeting.

APPLICATION:

The Award Subcommittees would like to consider papers by all authors who meet the eligibility criteria. Neither membership in the Acoustical Society, nor previous experience in the ASA, is required. Because the committees have no other way to identify eligible authors, however, it is essential that eligible authors indicate their intention to enter the competition during the abstract submission process by clicking the entry box on the online submission form.

Submitted For (name of appropriate Technical Committee) Young Presenter Award

Inputting Special Symbols for Electronic Submissions

Following are some brief instructions on typesetting special symbols and mathematics. The following commands may work either in normal text, in math mode (i.e., between dollar signs \$), or both. Please make sure they are entered in the correct manner.

If you have L^AT_EX available, you can check everything by running the finished submission through L^AT_EX. You just need to have a standard L^AT_EX setup, with the `pasaabs.sty` file available to L^AT_EX.

There are some normal keyboard symbols that must be entered in special ways. For example, just typing the % character will not put a percent sign in the output—it will cause the rest of the input line to be ignored! You need to input \% to get a percent sign in the output. Here is a table of such keyboard symbols requiring special handling.

Symbol	Input	Comment
%	\%	Very dangerous to input just %!
<	\$<\$	Less than. Note: only in math mode (\$. . . \$)
>	\$>\$	Greater than. Note: only in math mode (\$. . . \$)
{	\${}\$	Note: only in math mode (\$. . . \$)
}	}\$	Note: only in math mode (\$. . . \$)
\$	\\$	Very bad to input just \$!
&	\&	Very bad to input just &!
#	\#	Very bad to input just #!
^	\^{}	Very bad to input just ^!
_	_	Very bad to input just _!
\	\\backslash\$	Very bad to input just \!
-	\-{}	Very bad to input just ~!

When entering a command word, which consists of a backslash followed by letters, *always* leave a space after the command word if it is followed immediately by another letter. This is very important. For example, to get αx you would input `$_alpha x$`, *not* `$_alphax$`. In the latter case the processor would think that you intended a command of `$_alphax`, which doesn't exist!

Command symbols, which consist of a backslash followed by a single nonletter symbol, do not need spaces following them. Also, note that spaces in math mode (between dollar signs \$) do not produce spaces in output, though they are still needed following command words.

To change font styles, you need to use braces to enclose what you wish to typeset in the different font style and put the font style command inside the first brace. The font commands are `\it` for italic, `\rm` for roman (the default), and `\bf` for boldface.

For example, to set "et al." in italics, you would input `{\it et al.}` and the output would be "et al.". To input a volume number in bold, you would input `{\bf 35}` and get **35** as output. Roman is the normal font, and you don't usually

need to call for this. These font commands can be used in regular text or in math mode.

To get an "en dash" (used for ranges), use two consecutive hyphens in text; e.g., `100--200` gives 100–200.

To get an "em dash", use three consecutive hyphens in text; e.g., `... we show---after lengthy calculation...` gives ... we show—after lengthy calculation...

To get quotes, use two single left quotes to start, and two single right quotes to end the quote. Do not use the double-quote key to start or end. For example, `'so called'` gives "so called" (correct) while `"so called"` gives "so called" (*incorrect*).

The character "/" may be used by just typing / in either math or text.

A number of accents may be created in text. The following table shows the accents available and how to get them with the letter "a". Any other letter may be substituted for "a".

Text accents with letter a; text mode only. Any letter may be used in place of a.

\grave{a}	\acute{a}	\hat{a}	\ddot{a}
\tilde{a}	\bar{a}	\grave{a}	\grave{u}
\grave{a}	\grave{H}	$\grave{a}\grave{a}$	\grave{a}
\grave{a}	\grave{a}		

Other special symbols; text mode only.

\grave{a}	\grave{A}	\grave{a}	\grave{A}
\emptyset	\emptyset	oe	OE
!	L	?	!
β	ss		

Phonetic symbols; may be used in text only. These symbols will not print on the author's end, even with L^AT_EX, because special fonts are needed. They will print correctly when submitted. After processing through L^AT_EX the author will see `<schwa>`, but $\text{\textcircled{a}}$ will print in the submitted copy.

<code>\opena</code>	$\text{\textcircled{a}}$	<code>\schwa</code>	$\text{\textcircled{a}}$
<code>\hookswa</code>	$\text{\textcircled{h}}$	<code>\eh</code>	$\text{\textcircled{e}}$
<code>\backeh</code>	$\text{\textcircled{b}}$	<code>\hookbackeh</code>	$\text{\textcircled{b}}$
<code>\hookn</code>	$\text{\textcircled{n}}$	<code>\rhookn</code>	$\text{\textcircled{n}}$
<code>\openo</code>	$\text{\textcircled{o}}$	<code>\invr</code>	$\text{\textcircled{r}}$
<code>\smallU</code>	$\text{\textcircled{U}}$	<code>\invv</code>	$\text{\textcircled{v}}$
<code>\aelig</code>	$\text{\textcircled{a}}$	<code>\oelig</code>	$\text{\textcircled{e}}$
<code>\yog</code>	$\text{\textcircled{y}}$	<code>\edh</code>	$\text{\textcircled{d}}$
<code>\bari</code>	$\text{\textcircled{i}}$	<code>\smallI</code>	$\text{\textcircled{I}}$
<code>\hookn</code>	$\text{\textcircled{n}}$	<code>\baru</code>	$\text{\textcircled{u}}$
<code>\phontheta</code>	$\text{\textcircled{\theta}}$	<code>\closeomega</code>	$\text{\textcircled{\omega}}$
<code>\sh</code>	$\text{\textcircled{s}}$	<code>\glotstop</code>	$\text{\textcircled{?}}$
<code>\backglotstop</code>	$\text{\textcircled{\text{!}}}$		

Subscripts and superscripts are created in math mode using the `^` and `_` commands, respectively. A `^` will superscript the material following in braces, while `_` will subscript it. To get the equation $E = mc^2$ input `$_E=mc^{2}$`. To get the equation $E = mc_2$ input `$_E=mc_{2}$`. To get the equation

$E = m^{1/2} c_{1/2}$ input $\$E=m^{1/2}c_{1/2}\$$. To get $k_{y_1}^{x_2^2}$ input $\$k^{x_2^2}_{y_1}\$$. Note that you cannot use the ambiguous form where there are two superscripts or two subscripts in a row: instead of $\$x^{e^2}\$$ (illegal) use $\$x^{e^{\{2}\}}\$, which gives x^e .$

To produce fractions, the normal "slashed" fractions can be used. For example, $\$x/2\$\$ gives $x/2$ while $\$(x/2)(1+2y+y^2)\$ gives $(x/2)(1+2y+y^2)$. Note in the latter example that parentheses are used around $x/2$. Compare this to $\$x/2(1+2y+y^2)\$, which gives $x/2(1+2y+y^2)$. In this case, only the x is in the numerator, and everything else is in the denominator. To produce "built-up" fractions, where the numerator is set above the denominator, use the $\frac{\text{numerator}}{\text{denominator}}$ command. Everything in the first set of braces following $\frac{}{}$ is set in the numerator, and everything in the second set of braces is set in the denominator. So, $\frac{1}{2}\$ gives $\frac{1}{2}$; $\frac{x}{2(1+2y+y^2)}\$ gives $\frac{x}{2(1+2y+y^2)}$; and $\frac{x}{2(1+2y+y^2)}\$ gives $\frac{x}{2(1+2y+y^2)}$.$$$$$$

Greek letters; used in math mode only.

Lowercase			
α \alpha	β \beta	γ \gamma	δ \delta
ϵ \epsilon	ε \varepsilon	ζ \zeta	η \eta
θ \theta	ϑ \vartheta	ι \iota	κ \kappa
λ \lambda	μ \mu	ν \nu	ξ \xi
\omicron \omicron	π \pi	ϖ \varpi	ρ \rho
ϱ \varrho	σ \sigma	ς \varsigma	τ \tau
υ \upsilon	ϕ \phi	φ \varphi	χ \chi
ψ \psi	ω \omega		
Uppercase			
Γ \Gamma	Δ \Delta	Θ \Theta	Λ \Lambda
Ξ \Xi	Π \Pi	Σ \Sigma	Υ \Upsilon
Φ \Phi	Ψ \Psi	Ω \Omega	

Math accents with letter a; math mode only. Any other letter may be substituted for "a", including Greek letters.

\hat{a} \hat{a}	\check{a} \check{a}	\dot{a} \dot{a}	\ddot{a} \ddot{a}
\breve{a} \breve{a}	\tilde{a} \tilde{a}	\grave{a} \grave{a}	\acute{a} \acute{a}
\bar{a} \bar{a}	\vec{a} \vec{a}		

Delimiters; used only in math mode. Note that the angular brackets (and) are produced with the commands (and).

(())	\rceil
[[]]	\backslashslash
{ { } }	
$\langle \rangle$ \langle \rangle	\parallel
$\lfloor \rfloor$ \lfloor \rfloor	\lceil

Miscellaneous sum-like symbols; used in math mode. Just set limits to these as superscripts, and they will appear in the correct place when typeset.

\sum \sum	\prod \prod	\coprod \coprod
\int \int	\oint \oint	\bigoplus \bigoplus

Log-like functions; math mode only. These just produce their names in roman type, with small spaces preceding and following. For example, $\$\cos \theta\$\$ produces $2 \cos \theta$.$

\arccos \arccos	\arcsin \arcsin	\arctan \arctan	\arg \arg	\cos \cos
\cosh \cosh	\cot \cot	\coth \coth	\csc \csc	\deg \deg
\det \det	\dim \dim	\exp \exp	\gcd \gcd	\hom \hom
\inf \inf	\ker \ker	\lg \lg	\lim \lim	\liminf \liminf
\limsup \limsup	\ln \ln	\log \log	\max \max	\min \min
\Pr \Pr	\sec \sec	\sin \sin	\sinh \sinh	\sup \sup
\tan \tan	\tanh \tanh			

Arrow symbols; used in math mode.

\leftarrow \leftarrow	\rightarrow \rightarrow
\Leftarrow \Leftarrow	\Rightarrow \Rightarrow
\leftrightarrow \leftrightarrow	\Leftrightarrow \Leftrightarrow
\uparrow \uparrow	\downarrow \downarrow

Various other symbols; used in math mode.

\pm \pm	\mp \mp	\times \times	\div \div
$*$ \ast	\star \star	\circ \circ	\bullet \bullet
\cap \cap	\cup \cup	\cdot \cdot	\vee \vee
\wedge \wedge	\angle \angle	\dagger \dagger	\ddagger \ddagger
\leq \leq	\geq \geq	\ll \ll	\gg \gg
\equiv \equiv	\neq \neq	\doteq \doteq	\subset \subset
\supset \supset	\subseteq \subseteq	\supseteq \supseteq	\perp \perp
$ $ \mid	\parallel \parallel	\sim \sim	\simeq \simeq
\approx \approx	\cong \cong	\in \in	\ni \ni
\propto \propto	\prime \prime	\backslash \backslash	\forall \forall
∞ \infty	\exists \exists	\emptyset \emptyset	\Box \Box
∇ \nabla	\neg \neg	\hbar \hbar	\wp \wp
\Re \Re	ℓ \ell	\Im \Im	∂ \partial

To get a displayed equation, use $\[\dots \]$ instead of $\$ \dots \$$. For example, using $\[E=mc^2 \]$ gives

$$E = mc^2$$

as a result. Notice that it is set off from the text of this paragraph.

You can switch to script (calligraphic) letters by using the \cal command in math mode (note the \mathcal{L}):

$$\mathcal{L}_{int} = eF_{\pi}^3 r^2 B^0(r, t) \epsilon \sin(\Omega t) \exp(\eta t),$$

gives

$$\mathcal{L}_{int} = eF_{\pi}^3 r^2 B^0(r, t) \epsilon \sin(\Omega t) \exp(\eta t),$$

Only uppercase letters are available in the \cal font.

You can switch to sans serif letters by using the \sf command in math mode (note the \mathcal{M}):

$$\mathcal{R}(\mathcal{Q} - \mathcal{Q}_0) = R_0 \exp(-\frac{1}{2} \Delta \mathcal{Q} \cdot \mathcal{M} \cdot \Delta \mathcal{Q}).$$

gives

$$\mathcal{R}(\mathcal{Q} - \mathcal{Q}_0) = R_0 \exp(-\frac{1}{2} \Delta \mathcal{Q} \cdot \mathcal{M} \cdot \Delta \mathcal{Q}).$$

Both uppercase and lowercase letters are available with \sf .

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