

# **Announcement and Call for Papers**

**Joint Meeting**

**176<sup>th</sup> Meeting  
Acoustical Society of America**

**and**

**2018 Acoustics Week in Canada  
Canadian Acoustical Association**



**Victoria Conference Centre  
Victoria, BC, Canada**

**5-9 November 2018**

**Deadline for receipt of abstracts: 29 May 2018**

# MEETING ANNOUNCEMENT AND CALL FOR PAPERS

The joint 176<sup>th</sup> Meeting of the Acoustical Society of America (ASA) and 2018 Acoustics Week Canada of the Canadian Acoustical Association will be held Monday through Friday, 5–9 November 2018 at the Victoria Conference Centre, Victoria, British Columbia, Canada. The headquarters hotel is the Fairmont Empress. Blocks of rooms have been reserved at the Fairmont Empress and the Victoria Marriott Inner Harbour Hotel at discounted rates. Information about the meeting also appears on the ASA webpage at [AcousticalSociety.org](http://AcousticalSociety.org).

Acoustics Week in Canada, the general meeting of the Canadian Acoustical Association, is held annually at different locations around Canada and normally includes technical sessions on all areas of acoustics; an exhibition of acoustical instruments, equipment and services; standards meetings; student award presentations; and the Annual General Meeting and election of officers. In 2018, Acoustics Week in Canada will be held jointly with the 176<sup>th</sup> Meeting of the Acoustical Society of America in Victoria B.C.

**The deadline for receipt of abstracts is 29 May 2018. This deadline will be strictly enforced.**

Susan E. Fox, Executive Director

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# TECHNICAL PROGRAM AND SPECIAL SESSIONS

## TECHNICAL PROGRAM

Contributed papers are welcome in all branches of acoustics. The technical program will consist of lecture and poster sessions. Technical sessions will be scheduled Monday through Friday, 5–9 November 2018.

Every effort will be made to schedule contributed abstracts in accordance with author and Organizing 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.

Special sessions described below are planned for the meeting. Authors of invited papers must indicate the title of the special session in which they have been invited to participate when the abstract is submitted. Authors of contributed papers have the option to request placement of their abstracts in these sessions. 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)

Arctic Acoustical Oceanography  
(Joint with Underwater Acoustics, Animal Bioacoustics, Signal Processing in Acoustics)  
Organized by: Peter Worcester, Mohsen Badiey, Hanne Sagen

Experimental Assessment of Theories of Sound Propagation in Sediments  
(Joint with Underwater Acoustics)  
Organized by: Orest Diachok, N. Ross Chapman

Machine Learning and Data Science Approaches in Ocean Acoustics  
(Joint with Animal Bioacoustics, Underwater Acoustics, Signal Processing in Acoustics)  
Organized by: Wu-Jung Lee, Shima Abadi

Ocean Observatories: Laboratories for Acoustical Oceanography  
(Joint with Underwater Acoustics, Animal Bioacoustics)  
Organized by: Bruce Howe, Thomas Dakin

### ANIMAL BIOACOUSTICS (AB)

Anything You Can Do I Can Do Better: Bat Versus Dolphin Biosonar  
(Joint with Signal Processing in Acoustics)  
Organized by: Laura Kloepper, Brian Branstetter

Combining Passive and Active Acoustics for Ecological Investigations  
(Joint with Signal Processing in Acoustics)  
Organized by: Simone Baumann-Pickering, Ana Širović

Fish and Marine Invertebrate Bioacoustics  
Organized by: Bruce Martin, Xavier Mouy

Passive Acoustic Density Estimation: Recent Advances and Outcomes for Terrestrial and Marine Species  
(Joint with Acoustical Oceanography, Signal Processing in Acoustics)  
Organized by: Thomas Norris, Tiago Marques

### DESCRIPTIVE SENTENCES

Observations and modeling of acoustic propagation and ambient sound in the Arctic, including the effects of recent changes in the sea ice, ocean stratification, and other ocean processes and the application of acoustic methods to study these changes

Experimental evidence which sheds light on or suggest theoretically motivated experiments that can clarify the viability of theories of sound propagation in sediments

There is an increasing number of applications of machine learning methods in ocean acoustics, particularly when working with large data sets. This session will focus on researches employing data-driven methods and related topics on data access, code sharing, reproducible research, and others

Biological, geophysical, chemical, and physical oceanographic acoustical studies associated with ocean observatories

Presenters argue why their suborder's biosonar is superior to the other--presenters must include a comparison of bats and dolphins in their talk

The concurrent use of passive and active acoustics to simultaneously document a variety of animals in the water column for ecological investigations has shown great advances over the past years. This session will highlight advances that can be made combining acoustic techniques for ecosystem monitoring

Opportunity for researchers to present the latest results on fish and marine invertebrates bioacoustics. New information on sound production and perception by this diverse group is welcomed, as well as innovations in measurement techniques

Passive acoustic density estimation is becoming more widely used as a method to estimate the density and abundance of species, especially those which are vocally active and/or are cryptic, difficult to observe visually, or elusive. This session will focus on recent advances in this relatively new area of research for both terrestrial and marine species

## ARCHITECTURAL ACOUSTICS (AA)

Advances in the Laboratory Testing of Materials  
(Joint with Noise, ASA Committee on Acoustics, Structural  
Acoustical and Vibration)  
Organized by: Ron Sauro

Architectural Acoustics and Audio: Even Better Than The Real  
Thing  
Organized by: K. Anthony Hoover, Alex U. Case

Auditorium Acoustics and Architectural Design: Challenges and  
Solutions  
(Joint with ASA Committee on Acoustics)  
Organized by: Jin Yong Jeon, Ning Xiang

Microphone Array Applications in Room Acoustics  
(Joint with Engineering Acoustics, Signal Processing in Acoustics  
and Noise)  
Organized by: Michael Vorländer, Gary Elko

Session in Memory of Murray Hodgson  
(Joint with Noise)  
Organized by: Maureen Connelly, Nicola Prodi, David Woolworth

Sustainable Acoustics in Social Space and WELL Buildings  
Organized by: Siu-Kit Lau, Andy Chung, Ethan Bourdeau

Validation of Modeling and Analysis: Predictions and Outcomes  
(Joint with Noise)  
Organized by: Logan D Pippitt, Benjamin Bridgewater

## BIOMEDICAL ACOUSTICS (BA)

Bubble Trouble in Therapeutic Ultrasound  
(Joint with Physical Acoustics)  
Organized by: Christy Holland, Klazina Kooiman

Shock Waves and Ultrasound for Calculus Fragmentation  
(Joint with Physical Acoustics)  
Organized by: Juliana Simon, Michael R. Bailey

State of the Art in Lung Ultrasound: Past, Present, and Future  
(Joint with Physical Acoustics)  
Organized by: Libertario Demi, Martin Verweij

Targeted Drug Delivery - Acoustic Radiation Force  
(Joint with Physical Acoustics)  
Organized by: John Allen, Alfred Yu

## DESCRIPTIVE SENTENCES

Changes, both in method and capabilities of labs and standards.  
This can include equipment, procedures, theories and expansions

Adapting, enhancing and fictionalizing acoustics through  
architectural, audio and signal processing systems

Examples of new concepts and techniques in the design of  
architectural acoustics such as concert halls and opera houses.  
The alternatives of the acoustical designs are evaluated by the  
computer simulation or the scale model experiment to be reflected  
in the final design with the aim of the acoustic performance  
suitable for the various genres. The acoustic performance of a  
space can be confirmed through the measurement of the room  
acoustics and the background noise levels in the building after  
completion.

Spherical arrays applied in measurements of diffuseness, material  
reflection properties, or directional reverberation; Spherical arrays  
used for recording spatial sounds, mix to spatial audio formats,  
binaural etc.; Spherical and other arrays topologies used for  
source separation, classification of source and room features

Honoring Murray Hodgson's contributions to the measurement,  
characterization, prediction, and control of sound fields in rooms,  
especially industrial workshops, offices, classrooms, and health-  
care facilities

To facilitate the development of the built environment for future  
generations and increase the awareness of the acoustics in  
sustainable (or green building) architecture, this session would like  
to address the current technologies and understanding of  
sustainable acoustics and their environments in social spaces  
(including restaurants, entertainment facilities, etc.) and WELL  
buildings. The sustainable acoustics environment should enhance  
the ability for future generations to meet their own needs

Simulations, modelings, calculations, and auralizations are how we  
predict the way a space will sound. Verifying these predictions is  
crucial to the improvement of our analysis methods. This session  
will provide comparisons of acoustical and sound reinforcement  
predictions to the final built environment

Bubbles have enabled exciting diagnostic and therapeutic  
ultrasound applications. This session will explore the challenges  
presented by detecting, controlling, and mapping bubble activity in  
ultrasound-mediated drug and bioactive gas delivery, tissue  
ablation, acoustic droplet vaporization, and therapeutic targeting

Topics related to the medical use of acoustics to disrupt  
calcification in the body

Comprehensive overview of the state of the art in lung ultrasound.  
Clinical, safety and technical aspects of lung ultrasound will be  
discussed. Particular attention will be given to imaging artifacts  
and new lung ultrasound imaging techniques

Role of the acoustic radiation force in both theoretical and  
experimental aspects of drug delivery with targeted contrast  
agents and particles

## **BIOMEDICAL ACOUSTICS (BA) (continued)**

Therapeutic Ultrasound Transducers  
(Joint with Physical Acoustics)  
Organized by: Adam Maxwell, Tatiana D. Khokhlova

Wave Propagation in Complex Media: From Theory to Applications  
(Joint with Structural Acoustics and Vibration, Physical Acoustics)  
Organized by: Guillaume Haiat, Pierre Belanger

## **ENGINEERING ACOUSTICS (EA)**

Acoustic Particle Velocity Sensors, Algorithms, and Applications in  
Air  
(Joint with Noise)  
Organized by: Michael V. Scanlon

## **EDUCATION IN ACOUSTICS (ED)**

Measuring Educational Outcomes  
Organized by: Robert D. Celmer, Andrew Piacsek

## **INTERDISCIPLINARY (ID)**

Graduate Studies in Acoustics Poster Session  
(Joint with Student Council, Engineering Acoustics)  
Organized by: Trevor W. Jerome

Inclusion, Diversity, and Equity in Acoustics  
(Joint with Women in Acoustics)  
Organized by: Dominique A. Bouavichith, Kelly Whiteford, Evelyn  
Hoglund

## **MUSICAL ACOUSTICS (MU)**

Computational and Experimental Investigations of Flow in Musical  
Instruments  
(Joint with Structural Acoustics and Vibration, Signal Processing  
in Acoustics)  
Organized by: Whitney Coyle

Modeling Musical Instruments and Effects  
(Joint with Signal Processing in Acoustics)  
Organized by: Scott Hawley, Vasilis Chatziioannou

Percussion Instruments  
(Joint with Physical Acoustics, Structural Acoustics and Vibration)  
Organized by: Uwe Hansen, Andrew Morrison

## **DESCRIPTIVE SENTENCES**

Design, metrology, and bioeffects of therapeutic and dual use  
transducers

The understanding of the interaction between an acoustic wave  
and a complex medium is an important problem in various  
applications such as non-destructive evaluation or biomedical  
ultrasound. This session will focus on experimental issues as well  
as on modeling and simulation works, including the development  
of inversion procedures

Acoustic particle velocity sensors, or vector sensors, have the  
ability to localize acoustic targets with very small form-factors.  
Airborne sensing with vector sensors provides unique capabilities  
for military, law-enforcement, entertainment and communications  
applications. Topic includes emerging R&D, performance evalua-  
tions and applications

Models for measuring outcomes from educational activities in  
acoustics

A wide range of Graduate Programs in Acoustics will present, in  
poster format, what their University has to offer a prospective  
student

As part of Strategic Plan Task Force 2 on Membership  
Engagement and Diversity, a panel of speakers will discuss how  
principles of Inclusion, Diversity, and Equity can be incorporated  
into the Society's practices to more effectively engage members  
from a variety of backgrounds, specifically with regard to issues of  
diversity in education and membership

Visualization, measurement, and computational modeling of air  
flow in and around musical instruments

The intersection of physical modeling of musical instruments and  
related sound effects including synthesis of musical instrument  
sound, the interaction between instrument and acoustic spaces,  
special problems to overcome and measurements to quantify  
model parameters

Work on all types of percussion musical instruments

## **NOISE (NS)**

Acoustic Vehicle Alerts: Effects on Soundscape, Quality of Life, and Traffic Safety  
(Joint with Psychological and Physiological Acoustics)  
Organized by: Jeanine Botta, Brigitte Schulte-Fortkamp

Effects of Noise on Human Performance  
(Joint with Speech Communication, Psychological and Physiological Acoustics)  
Organized by: Joonhee Lee

Emerging Technologies for Noise Control  
(Joint with Physical Acoustics, Structural Acoustics and Vibration, Architectural Acoustics)  
Organized by: Ning Xiang, Kirill Horoshenkov

Noise and Vibration from Fitness Activities  
(Joint with Structural Acoustics and Vibration, Architectural Acoustics)  
Organized by: Matthew Golden, James Phillips

Supersonic Jet Aeroacoustics  
(Joint with Physical Acoustic, Signal Processing in Acoustics, ASA Committee on Standards)  
Organized by: Alan Wall, Allan Aubert, Kent Gee

Structure-Borne Noise in Buildings and What We Can Do About It  
(Joint with Architectural Acoustics, Structural Acoustics and Vibration, ASA Committee on Standards)  
Organized by: James Phillips, Bonnie Schnitta

Technological Challenges in Noise Monitoring  
(Joint with ASA Committee on Standards, Signal Processing in Acoustics)  
Organized by: Matthew Blevins, Anton Netchaev

## **PHYSICAL ACOUSTICS (PA)**

Acoustic Metamaterials and Super-Resolution Imaging  
(Joint with Signal Processing in Acoustics)  
Organized by: Matthew Guild, Jeffrey Rogers

Challenges in Computational Acoustics  
(Joint with Architectural Acoustics, Noise, Signal Processing in Acoustics, Underwater Acoustics)  
Organized by: D. Keith Wilson, Matthew Blevins

Interactions of Sound Beams with Objects  
(Joint with Biomedical Acoustics)  
Organized by: Likun Zhang, Grant Eastland

Novel Approaches to Acoustic and Elastic Wave Experimentation: Concepts, Hardware and Novel Processing Methods  
(Joint with Engineering Acoustics)  
Organized by: Michael R. Haberman, Dirk-Jan van Manen, Theodor Becker, Nele Boersing

Outdoor Sound Propagation  
(Joint with Noise, ASA Committee on Standards)  
Organized by: Vladimir Ostashev, Philippe Blanc-Benon, D. Keith Wilson

## **DESCRIPTIVE SENTENCES**

An exploration of vehicle alerts such as horn sounds and electronic signals that serve as status reports throughout shared spaces including residential neighborhoods, urban settings, and national parks

How noise can affect the performance in physical and cognitive tasks

New materials to improve the qualities of noise control

Assessment and prediction of noise and vibration from fitness related activities such as treadmills, group activities, and weight drops

Noise characterization of supersonic jets through measurement, modeling, and simulation of aeroacoustic phenomena informs jet noise reduction technologies, launch vehicle, payload, and launch pad damage risk models, and personnel and community noise predictions for commercial and military aircraft

Interior noise from sources of vibration within and without buildings: what causes it, how does it get there, how is it predicted and measured, and how we control it

Innovative solutions to technological challenges faced in noise monitoring or measurement systems (e.g., system response, long-term operation, power consumption, sensor footprint, etc.)

Explore novel methods of generating, detecting and imaging acoustic waves at scales smaller than the diffraction limit

Solutions to challenging computational acoustics problems requiring new or unconventional techniques or approaches

Recent advances of sound beam interactions with objects via scattering, radiation pressure and angular momentum transfer

Novel designs and ideas of unconventional laboratories for acoustic and elastic wave propagation. Topics include: active boundary control, virtual acoustic immersion, interplay of hardware and processing, hardware-in-the-loop approaches, real-time processing, application-specific transducers design

All aspects of sound propagation in the atmosphere such as the effects of turbulence and stratification, sound interaction with impedance ground and barriers, numerical implementation, and signal processing

## **PHYSICAL ACOUSTICS (PA) (continued)**

Willis Coupling in Acoustic Metamaterials  
(Joint with Structural Acoustics and Vibration, Signal Processing  
in Acoustics)  
Organized by: Michael R. Haberman, Feruza Amirkulova

## **PSYCHOLOGICAL AND PHYSIOLOGICAL ACOUSTICS (PP)**

Acoustics Outreach: Linking Physiology and Behavior for Future  
Collaborations  
Organized by: Amanda Lauer, Anna Diedesch

Music, Speech, and the Brain  
(Joint with Speech Communication, Musical Acoustics)  
Organized by: Christina Zhao, Patricia Kuhl

Speech Perception in Children with Hearing Impairment  
(Joint with Speech Communication)  
Organized by: Mishaela DiNino, Kelly Jahn

Understanding Limitations on Auditory Spatial Acuity  
Organized by: Andrew Brown

## **SIGNAL PROCESSING IN ACOUSTICS (SP)**

Detection and Tracking of Mobile Targets  
(Joint with Underwater Acoustics, Engineering Acoustics, Physical  
Acoustics)  
Organized by: Kainam Thomas Wong, Siu-Kit Lau

Geometric Signal Processing in Acoustics  
(Joint with Speech Communication)  
Organized by: Ananya Sengupta

Machine Learning for Acoustic Applications  
(Joint with Acoustical Oceanography, Architectural Acoustics,  
Musical Acoustics, Underwater Acoustics, Noise)  
Organized by: Peter Gerstoft, Weichang Li

## **SPEECH COMMUNICATION (SC)**

Phonetics of Under-Documented Languages  
Organized by: Benjamin V. Tucker, Richard Wright

Recent Advances in Experimental, Computational, and Clinical  
Research in Voice Production and Perception  
(Joint with Biomedical Acoustics, Signal Processing in Acoustics)  
Organized by: Zhaoyan Zhang, Michael Döllinger

The Sound of Emotion  
(Joint with Musical Acoustics, Psychological and Physiological  
Acoustics)  
Organized by: Shae Morgan, Kathrin Rothermich

## **DESCRIPTIVE SENTENCES**

Theoretical, numerical, and experimental research on acoustic metamaterials displaying Willis coupling, also known as bianisotropic acoustic media

Presentations from early career investigators and others bridging the gap between physiology and perception. Intended to facilitate increased and lasting interactions between scientists performing basic and applied research linking physiology and behaviour

Music and speech share similarities at many levels. The session will explore mechanisms related to music and speech sound processing using different brain and behavioral methods, covering studies from infancy to adulthood

Factors that relate to speech perception abilities in children with different hearing histories and interventions

Highlighting work that has attempted to disentangle the factors that limit spatial hearing acuity or accuracy, for example, acoustic factors from perceptual ("system") factors in the marked variation of spatial hearing performance across azimuth

Detection, localization and tracking of mobile objects such as aircraft, surface ships and unmanned vehicles

Topographical methods and non-linear manifold signal and feature modeling applied to acoustic phenomena

Machine learning and diverse data adaptive modeling and inference methods related to acoustic phenomena

Of the over 6000 world languages only a very small percentage have been investigated from a phonetic perspective, resulting in a major lack of acoustic description of these languages

Issues and review of recent advances in voice production and perception research

Broad overview of emotion and affect in the acoustic signal. Research on the production and perception of affective speech and non-speech sounds

## **STRUCTURAL ACOUSTICS AND VIBRATION (SA)**

### Acoustic Metamaterials

(Joint with Physical Acoustics)

Organized by: Christina J. Naify, Alexey S. Titovich

### Advanced Modeling Techniques for Computational Acoustics

(Joint with Physical Acoustics, Underwater Acoustics, Architectural Acoustics)

Organized by: Kuangcheng Wu, Elizabeth A. Magliula, James E. Phillips

### Advances in Thermoacoustics

(Joint with Engineering Acoustics, Physical Acoustics)

Organized by: Matthew Kamrath, Robert M. Koch

### History of Computational Methods in Structural Acoustics and Vibration

(Joint with Noise, Signal Processing in Acoustics)

Organized by: James E. Phillips, Benjamin Shafer, John B. Fahline

### Utilization of High-Speed Cameras to Measure Vibration

(Joint with Engineering Acoustics, Signal Processing in Acoustics)

Organized by: Micah R. Shepherd, Trevor W. Jerome

## **UNDERWATER ACOUSTICS (UW)**

### Acoustic Vector Field Studies

(Joint with Signal Processing in Acoustics, Structural Acoustics and Vibration)

Organized by: Kevin Smith, Robert J. Barton

### Biological Effects on Seabed Geoacoustic Properties

(Joint with Acoustical Oceanography, Animal Bioacoustics, Physical Acoustics)

Organized by: Kevin M. Lee, Megan S. Ballard, Kelly M. Dorgan

### Sediment Acoustics – Inferences from Forward Modeling, Direct, and Statistical Inversion Methods

(Joint with Acoustical Oceanography, Signal Processing in Acoustics, Physical Acoustics)

Organized by: Charles W. Holland, Stan E. Dosso

### Unmanned Vehicles and Acoustics

(Joint with Signal Processing in Acoustics, Structural Acoustics and Vibration, Physical Acoustics)

Organized by: Erin Fischell

### Variability in Shallow Water Propagation and Reverberation

(Joint with Acoustical Oceanography, Signal Processing in Acoustics)

Organized by: Todd Hefner, David Dall'Osto

## **DESCRIPTIVE SENTENCES**

Theoretical and computational analysis of new metamaterial structures, experimental validation, and characterization of prototype unit cells or bulk materials, and demonstrations of the uses for acoustic metamaterials

Ideas/techniques that enable researchers to quickly evaluate and understand the results from numerical predictions in the fields of Structural Acoustics and Vibration, Underwater Acoustics, Architectural Acoustics, etc.

Recent advances in thermoacoustics from thermoacoustic engines to thermophone transducers and beyond

Development of computational methods in structural acoustics and vibration from the early days of 2-dimensional modal analysis on computer mainframes to the current state-of-the-art complex 3-dimensional multi-media dynamic time domain analysis on desktop PCs, and everything in between

Measurement of structural vibration using high-speed cameras including image processing theory, computational requirements, and experimental setup. Applications with rigorous validation are also encouraged

General features of the underwater acoustic vector field, advances in signal processing, sensors, and utilization of the underwater acoustic vector field for environmental assessment or other inversion algorithms

Measurements and modeling of the effects of biological activity on the geoacoustic properties of the seabed, including changes to bulk density, porosity, compressional and shear wave speed and attenuation, and seafloor roughness

Quantitative knowledge of seabed properties is important for industrial, military, and scientific applications. A wide variety of measurement and inference techniques have been developed over the years to address challenging physics associated with the acoustics of marine sediments. This session brings together the latest techniques

Application of unmanned and autonomous vehicles for underwater acoustic sensing

Measurements and modeling of propagation and reverberation in temporally and spatially varying environments. Includes but is not limited to variability of clutter, evolution of sea surface roughness, and range dependent oceanography



## OTHER TECHNICAL EVENTS AND INFORMATION

### UNDERGRADUATE RESEARCH EXPOSITION

The 2018 Undergraduate Research Exposition, a poster session sponsored by Education in Acoustics, is a forum for undergraduate students to present their research in any area of acoustics and can also include overview papers on undergraduate research programs. It is intended to inspire and foster growth of undergraduate research throughout the Society, to encourage undergraduates to express their knowledge and interest in acoustics, and to foster their participation in the Society. To participate, a student must submit an abstract by the deadline as outlined in this Call for Papers and specify that it is for the special session entitled "Undergraduate research exposition." A student must be the first author of the abstract and present the poster at the meeting. Students currently enrolled as undergraduates, or who have completed their undergraduate degree in 2018 are eligible to present a poster in this session. Four awards of up to \$500 each will be made to help undergraduates with travel costs associated with attending the meeting and presenting a poster. Awards will be presented by check at the Exposition. An applicant for this award must submit a brief request for support that includes an estimate of travel expenses, a copy of their abstract, and a 1-page resume by e-mail to Elaine Moran, [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org) by 15 August. Award recipients will be notified by 15 September.

### EARLY CAREER SPEED-NETWORKING EVENT

ASA is hosting a speed-networking event for early career participants at the meeting to facilitate professional relationships and collaboration between early career participants and more experienced members of the society. The first half of the event will include multiple short conversations between early career participants and more senior society members. The second half will be a social in which the participants will be given the opportunity to continue conversations with the more experienced society members as well as interact with other early career participants. The event will be held on Tuesday, November 6, from 5:30 p.m. to 7:00 p.m.

Participant requirements: The speed-networking event is intended for early career acousticians from any subfield of acoustics, who received their last degree within the past ten years. It is not intended for students or those in the process of receiving a degree. Students are encouraged to attend the activities specifically designed for them throughout the week. Please contact Tessa Bent ([tbent@indiana.edu](mailto:tbent@indiana.edu)) or Dom Bouavichith ([dbouavichith@gmail.com](mailto:dbouavichith@gmail.com)) if you have any questions.

### OPEN MEETINGS OF TECHNICAL COMMITTEES

Technical Committees will hold open meetings on Tuesday, Wednesday, and Thursday evenings. These are working, collegial meetings. Much of the work of the ASA is accomplished by actions that originate and are taken in these meetings including proposals for special sessions, workshops, and technical initiatives. All meeting participants are cordially invited to attend these meetings and to participate actively in the discussions.

### HOT TOPICS

A "Hot Topics" session sponsored by the Tutorials, Short Courses, and Hot Topics Committee will cover the fields of Speech Communication, Education in Acoustics, and Animal Bioacoustics.

### PROCEEDINGS OF MEETINGS ON ACOUSTICS (POMA)

Authors of Victoria meeting papers are encouraged to submit a manuscript to ASA's Proceedings of Meetings on Acoustics (POMA). Things to note:

- There is no publication fee, but presentation of the paper at the meeting is mandatory.
- POMA does not have a submission deadline. Authors may submit manuscripts before or after the meeting; note, however, that review will not take place until after the meeting.
- POMA has Word and LaTeX manuscript templates and cover pages are now generated automatically at the time of publication.
- Published papers are being both indexed in scholarly venues and highlighted on Twitter and Facebook.
- Visit <http://asa.scitation.org/pma/authors/manuscript> for additional information, including recent changes to the manuscript preparation/submission process.

### ITINERARY PLANNER, MOBILE APP AND MEETING PROGRAM

An itinerary planner and mobile app will be available for the Victoria meeting. A complete meeting program will be mailed as Part 2 of the September issue of JASA. Abstracts will be available on the ASA webpage in October. <<http://AcousticalSociety.org>>.

## ABSTRACT SUBMISSION GUIDELINES

An abstract of not more than 200 words is required for each paper, whether invited or contributed. **Abstracts longer than 200 words will be truncated.** Authors must submit abstracts online (see page 22).

### ABSTRACT SUBMISSION GUIDELINES

All abstracts must be submitted by 29 May 2018. This deadline will be strictly enforced. Abstracts submitted via postal mail or e-mail will not be accepted. Abstracts will be rejected if they do not comply with the instructions.

Authors should be prepared to accept assignment to lecture or poster sessions.

Authors of invited papers must indicate the title of the special session in which they have been invited to participate at the time the abstract is submitted.

Authors of contributed papers may request placement of their abstracts in special sessions. The request will be honored, if possible, but there is no guarantee such abstracts will be scheduled in the requested sessions.

If no special session placement is requested, contributed papers will be scheduled in sessions with abstracts of similar technical content.

### ABSTRACT DISCLOSURE STATEMENTS

Authors will be asked to answer the following questions during the submission process:

- Compliance with ethical principles
- Confirmation that all authors are aware of and agree with the submission of abstracts on which their names appear
- Whether or not they are interested in having their abstract presentation broadcast live over the internet and/or recorded for later broadcast.

### ABSTRACT LIMITATIONS

● A contributor in Speech Communication may be the principal author of only one paper, and, subject to time and space limitations, may be the co-author of only one additional paper. Authors contributing papers in Speech Communication are also encouraged to select poster-style presentation.

● Contributed papers in Psychological and Physiological Acoustics and Underwater Acoustics may be scheduled for lecture or poster presentation.

● 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.

### ACKNOWLEDGMENT OF RECEIPT OF ABSTRACTS SUBMITTED ONLINE

Corresponding authors will receive an e-mail message confirming that their abstracts have been received. Acceptance notices will be sent to authors in July.

## ASA BEST PAPER AWARDS FOR STUDENTS AND YOUNG PRESENTERS

The ASA Technical Committees on Acoustical Oceanography, Animal Bioacoustics, Architectural Acoustics, Biomedical Acoustics (spring meeting only), Engineering Acoustics, Musical Acoustics, Noise, Physical Acoustics, Signal Processing in Acoustics, Speech Communication, Structural Acoustics and Vibration, and Underwater Acoustics offer Best Paper Awards to students or young presenters who present papers at meetings. Authors need not be members of ASA to qualify. **If you want your paper to be considered for an award, you must indicate this when you submit your abstract.** Please read the entry qualifications to be sure that you are eligible and follow the instructions for entering the individual Technical Committee competitions that appears on page 23.

## **AUDIO-VISUAL AND SPECIAL EQUIPMENT AND SOFTWARE**

### **AUDIO-VISUAL EQUIPMENT**

PC computers with monaural audio playback capability, computer projectors, and laser pointers will be provided in all lecture sessions. All other equipment is considered to be special equipment. Refer to the "Special Equipment" section below for additional information. Note that Mac computers will not be provided.

### **SPECIAL EQUIPMENT, COMPUTER EQUIPMENT, AND SOFTWARE**

Any equipment other than PC computers with monaural audio playback capability, computer projectors, and laser pointers is "special equipment." Requests for special equipment (e.g., stereo sound playback, special speakers) must be specified at the time of abstract submission. Provision of unusual special equipment will depend upon availability and cost. Special software requests should also be made, if required.

Please be specific about your audio needs, including number of channels and preferred loudspeaker arrangement.

### **POSTER SESSION BOARDS**

Poster boards and fastening materials will be provided. Poster boards are 8 ft. wide by 4 ft. high.

### **PROJECTION GUIDELINES FOR AUTHORS**

A PC computer with stereo 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 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. Authors also have the option to connect their own laptops to the computer projector, however authors using their own laptops must also arrive at the meeting room at least 30 minutes before start of the session to setup this connection. Assistance in loading presentations onto the computers and switching to alternate computers will be provided.

If you utilize your own computer for your presentation you should bring copies of your presentation materials on a USB drive as a backup. This may solve any possible interface or cable problems between your computer and the projector.

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 ensure that their sound files are also saved on the USB drive.

Guidelines for use of computer projection will be supplied with acceptance notices.

### **AUDIO/VISUAL PREVIEW ROOM**

Computer presentations can be reviewed by authors in the audio/visual preview room at the meeting. Separate computers will be made available in this room for accessing email.

## **TUTORIAL LECTURE ON AN INTRODUCTION TO SOUND IN THE SEA**

A tutorial on “Introduction to Sound in the Sea” will be presented by Tom Dakin of Ocean Networks Canada, on Monday, 5 November at 7:00 p.m.

### **ABSTRACT**

This introductory talk will address why underwater acoustics are important, its uses, how sound propagates so far in the ocean, man-made sounds, including shipping noise, and the impact of noise in the ocean. A short overview of organizations working on the issue of underwater noise will be given including those around the Salish Sea where the conference is being held. The way sound is measured and analyzed will be shown with local examples of marine life, earthquake and anthropogenic noise. A short exercise to show the effects of acoustic masking will be given, followed by an explanation of echolocation use by the Southern Resident Killer Whales and the implications of acoustic masking on finding food for this local and endangered species.

### **LECTURE NOTES**

Lecture notes will be available at the meeting in limited supply. Those who register by 8 October 2018 are guaranteed receipt of a set of notes.

### **TUTORIAL LECTURE PREREGISTRATION**

To partially defray the cost of the lecture, a registration fee is charged. The fee is USD \$15 for registration received by 8 October 2018 and USD \$25 thereafter including on-site registration at the meeting. The fee for students with current ID cards is USD \$7 for registration received by 8 October 2018 and USD \$12 thereafter, including on-site registration at the meeting. Register online at <http://AcousticalSociety.org> or use the registration form on page 21 to register for the Tutorial Lecture.

# SHORT COURSE ON BIOACOUSTICS AND ECOACOUSTICS

## INTRODUCTION

Bioacoustics and Ecoacoustics are rapidly developing disciplines to study and monitor ecosystems by their soundscape composition. This is a worldwide emerging research area aimed at monitoring, and possibly contrasting, the decline of biodiversity impacted by habitat reduction and degradation due to both local human activities and global environmental changes (climate changes and chemical pollution). The acoustic environment, also known as soundscape, has been recognized to be an essential component of ecosystems, thus worth of being studied, monitored, protected, and even restored when altered by human activities. In this context, sounds have the potential to serve science, conservation and also education.

Ecoacoustics joins bioacoustics and ecology as an interdisciplinary science that investigates natural and anthropogenic sounds and their relationship with the environment over a wide range of study scales, both spatial and temporal, including populations, communities, and landscapes. Ecoacoustics operates in all types of terrestrial and aquatic (freshwater and marine) ecosystems extending the scope of acoustics and bioacoustics. Sounds can be both the subject and the tools of ecological research. As the subject, sounds are investigated in order to understand their evolution, functions and properties under environmental pressures. As tools, sounds are used to study and monitor animal diversity, abundance, behaviour, dynamics and distribution, and their relationship with ecosystems and the environment.

## OBJECTIVE

The objective of the course is to provide scholars with a solid foundation to understand bioacoustics and ecoacoustics, the equipment needed to do acoustic research and monitoring, the software tools, the applications in the different fields, ranging from basic research to environmental monitoring and protection. The course will include topics related to both terrestrial and marine bioacoustics and ecoacoustics, soundscape analysis, noise pollution, digital sound recording and analysis, also considering the importance of the acoustic environment for the human beings.

## INSTRUCTOR

Gianni Pavan is a Researcher at the Department of Earth and Environmental Sciences of the University of Pavia, in Italy. He teaches Bioacoustics and Ecology in the Master courses of "Nature Sciences" and "Experimental and Applied Biology". Since the Master degree in Nature Sciences he got in 1983 with a thesis on the computer analysis of bird songs, he dedicated his research time to bioacoustics, computational bioacoustics, marine bioacoustics and, in the last decade, to ecoacoustics. Founder of the Interdisciplinary Center for Bioacoustics and Environmental Research (CIBRA) in 1989, he participated to many international activities for the study and protection of marine mammals.

## PROGRAM

Sunday, 4 November 2018, 1:00 p.m. to 5:00 p.m.  
Monday, 5 November 2018, 8:30 a.m. to 12:30 p.m.

## REGISTRATION

The full registration fee is USD \$300 (USD \$125 for students) and covers attendance, instructional materials and coffee breaks. The number of attendees will be limited so please register early to avoid disappointment. Only those who have registered by 8 October 2018 will be guaranteed receipt of instruction materials. There will be a USD \$50 discount off the full registration fee (discount does not apply to student fee) for registration made prior to 8 October 2018. Full refunds will be made for cancellations prior to 8 October 2018. Any cancellations after 8 October 2018 will be charged a USD \$25 processing fee. Register online at <http://AcousticalSociety.org> or use the form on page 21. If you miss the preregistration deadline and are interested in attending the course, please send an email to [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org).

## FUNDING OPPORTUNITIES

### STUDENT TRANSPORTATION SUBSIDIES

A student transportation subsidies fund has been established to provide limited funds to students to partially defray transportation expenses to meetings. No reimbursement is intended for the cost of food or housing. The amount granted each student depends on the number of requests received. To apply for a subsidy, submit a proposal by e-mail to be received by 8 October 2018 to: Jolene Ehl, [jehl@acousticalsociety.org](mailto:jehl@acousticalsociety.org). The proposal should include your status as a student; whether you have submitted an abstract; whether you are a member of ASA; method of travel.

### YOUNG INVESTIGATOR TRAVEL GRANTS

The Committee on Women in Acoustics (WIA) is sponsoring a Young Investigator Travel Grant to help with travel costs associated with presenting a paper at the Victoria meeting. Young professionals who have completed their doctorate in the past five years are eligible to apply if they plan to present a paper at the Victoria meeting, are not currently students, and have not previously received the award. Each award will be of the order of \$600 with four awards anticipated. Awards will be presented by check at the WIA luncheon at the meeting. Both men and women may apply. Applicants should submit a request for support, a copy of the abstract for their presentation at the meeting, and a current resume/vita which includes information on their involvement in the field of acoustics and in the ASA. Submit materials by e-mail to Whitney Coyle <[whitney.coyle@gmail.com](mailto:whitney.coyle@gmail.com)>. Deadline for receipt of applications is 7 September 2018.

### EARLY CAREER TRAVEL SUBSIDIES

Early career travel subsidies are available to help with travel costs associated with attending the meeting. Early career meeting attendees are eligible to apply if they are members of the Acoustical Society of America, are within 10 years of receiving their last degree, and are not currently students. Priority will be given to applicants who will be presenting a paper at the meeting, chairing a session at the meeting, and/or hold a leadership position in the ASA. Each subsidy will be on the order of USD \$500. Applicants should complete the online application at <https://goo.gl/forms/wCFgzTs4RJdkNNQI1>. The deadline for receipt of applications is September 7, 2018.

### DEPENDENT CARE SUBSIDIES

The Committee on Women in Acoustics (WIA) is sponsoring a Dependent Care Subsidy to help with dependent care costs associated with attending the Victoria meeting. Meeting attendees are eligible to apply if they plan to present a paper at the Victoria meeting or hold a leadership position in ASA. Each subsidy will be of the order of \$500 with four awards anticipated. Both men and women may apply. Applicants should submit a paragraph describing how the funds would assist their dependent care expenses, a copy of the abstract for their presentation at the meeting and/or a paragraph describing their leadership position in ASA. Submit materials by e-mail to Jennifer Miksis-Olds <[J.MiksisOlds@unh.edu](mailto:J.MiksisOlds@unh.edu)>. Deadline for receipt of applications is 7 September 2018.

## **STUDENT ACTIVITIES**

### **STUDENT ORIENTATION AND MEET AND GREET**

A New Students Orientation will be held from 5:00 p.m. to 5:30 p.m. on Monday, 5 November, for all students to learn about the activities and opportunities available for students at the Victoria meeting. This will be followed by the Student Meet and Greet from 5:30 p.m. to 6:45 p.m. where refreshments and a cash bar will be available.

### **STUDENTS' RECEPTION**

The Students' Reception will be held on Wednesday, 7 November, from 6:00 p.m. to 8:00 p.m. This reception, sponsored by the Acoustical Society of America and supported by the National Council of Acoustical Consultants, will provide an opportunity for students to meet informally with fellow students and other members of the Acoustical Societies of America and Japan. All students are encouraged to attend, especially students who are first time attendees or those from smaller universities.

### **STUDENTS MEET MEMBERS FOR LUNCH (SMMfL)**

A student in the SMMfL program meets one-on-one with an ASA member over lunch during the ASA meeting. The purpose is to encourage students, as they embark on their acoustical careers, to network with more senior members. Each lunch pairing is arranged to ensure a good match between the student's and member's acoustical interests. Each participant pays for his/her own meal. Students who wish to participate should check the SMMfL check box in the on-line pre-registration form. They will be contacted later for additional information to assist with the matching process. The Students Meet Members for Lunch program is sponsored by the Committee on Education in Acoustics.

### **OTHER INFORMATION FOR STUDENTS**

Students are also encouraged to visit the official ASA Student Home Page at <http://asastudentcouncil.org/>.

## **PLENARY SESSION, AWARDS CEREMONY, SOCIAL EVENTS, LUNCHEONS**

### **PLENARY SESSION AND AWARDS CEREMONY**

The ASA Plenary session will be held Wednesday afternoon, 7 November, where Acoustical Society of America and Canadian Acoustical Association awards will be presented and recognition of newly-elected Fellows will be announced.

### **SOCIAL HOURS**

Two socials with complimentary buffets and cash bars will be held on Tuesday and Thursday, 6 and 8 November. The social on Tuesday, 6 November, will be held at the Royal BC Museum across the street from the Empress Hotel. Regularly rated the best museum in Canada, the Royal BC Museum explores the natural and human history of British Columbia including natural history dioramas; recreations of a frontier town, gold mine, saw mill and fishing village; and the stunning First Peoples gallery and Totem Hall. The social on Thursday, 8 November, will be held at the Empress Hotel.

The ASA hosts these social hours to provide a relaxing setting for meeting attendees to meet and mingle with their friends and colleagues as well as an opportunity for new members and first-time attendees to meet and introduce themselves to others in the field. A second goal of the socials is to provide a sufficient meal so that meeting attendees can attend the open meetings of the Technical Committees that begin immediately after the socials.

### **WOMEN IN ACOUSTICS LUNCHEON**

The Women in Acoustics luncheon will be held on Wednesday, 7 November. The fee is USD \$25 (students USD \$15) for pre-registration by 8 October 2018 and USD \$30 (students USD \$15) at the meeting. Those who wish to attend this luncheon must register online at <http://AcousticalSociety.org> or use the form on page 21.

### **SOCIETY LUNCHEON AND LECTURE**

A Society Luncheon and Lecture sponsored by the College of Fellows will be held Thursday, 8 November, at 12:00 noon. This luncheon is open to all attendees and their guests. Register online at [AcousticalSociety.org](http://AcousticalSociety.org) or use the form on page 21. Tickets cost USD \$30.00 each.

### **JAM SESSION**

Once again the College of Fellows will be hosting the ASA Jam Session. Bring your axe, horn, sticks, voice, or anything else that makes music. Musicians and non-musicians are all welcome to attend. A full PA system, backline equipment, guitars, bass, keyboard, and drum set will be provided. All attendees will enjoy live music, a cash bar, and all-around good times. Don't miss out.



## TRANSPORTATION AND TRAVEL INFORMATION

### AIR TRANSPORTATION

Victoria International Airport (Airport Code YYJ) is served by 14 international and domestic airlines, with more than 120 flights daily from throughout North America, including non-stop flights to Vancouver, Seattle, Toronto, and San Francisco. See <http://www.victoriaairport.com> for more information. The airport is approximately 15 miles (25 km) from the Victoria Conference Centre and the conference hotels in downtown Victoria.

### GROUND TRANSPORTATION

**Taxi:** Taxi cabs are located curbside immediately outside of the arrivals area of the airport. Taxi rides from the airport to downtown Victoria cost about CAD \$60 and take about 30 minutes. Taxis are required to accept credit card payments.

**Airport Shuttle:** Shuttle service is available from the airport to hotels in downtown Victoria for CAD \$25 per person one-way or \$44 per person round-trip (2 tickets), departing every 40 minutes until 12:30 a.m. Passengers can purchase tickets at the YYJ Airport Shuttle counter in the arrivals area of the airport. See <https://yyjairportshuttle.com> for more information.

**Car Rental:** Four car rental agencies serve the airport, with counters located in the arrivals area directly across from the Information desk. See [www.victoriaairport.com/car-rentals](http://www.victoriaairport.com/car-rentals) for more information.

**Driving from the airport to the Fairmont Empress or Marriott Hotel:** Exit the airport on Electra Blvd. Go left on Willingdon Rd at the first roundabout. Proceed on Willingdon Rd through the second roundabout at East Saanich Rd and enter Hwy 17 (Patricia Bay Hwy) to your right (southbound). Hwy 17 becomes Blanshard St at the Victoria city limits; continue southbound on Blanshard St into downtown Victoria. For the Marriott Hotel, turn right on Fairfield Rd—the hotel will be on your left within the first block. For the Empress Hotel, proceed on Blanshard St past Fairfield Rd for two blocks and turn right on Belleville St. Continue on Belleville St for two blocks and turn right on Government St—the Empress Hotel will be on your right.

### DRIVING DIRECTIONS/PARKING INFORMATION

Victoria, on Vancouver Island, can be accessed by vehicle via BC Ferries from Tsawwassen (south of Vancouver) to Swartz Bay (north of Victoria). Exit the Swartz Bay ferry terminal southbound on Hwy 17 and follow the driving instructions as per the airport given above.

Hotel parking at the Empress Fairmont Hotel is CAD \$32 per day.

Hotel parking at the Marriott Inner Harbour Hotel is CAD \$16 per day.

## HOTEL RESERVATION INFORMATION

Blocks of guest rooms at discounted rates have been reserved for meeting participants at the Fairmont Empress and the Victoria Marriott Inner Harbour Hotel. **Early reservations are strongly recommended.** Special ASA meeting rates are not guaranteed after **Friday, 10 October 2018 11:59 p.m. PST**. You must mention the Acoustical Society of America when making your reservations to obtain the special ASA rates.

**Fairmont Empress  
721 Government Street, Victoria, BC, Canada V8W 1W5**

Please make your reservation directly with the Fairmont Empress. Online reservations are recommended.

### HOTEL POLICIES

- Reservations must be accompanied by a first-night's room deposit or guarantee with a major credit card.
- Check in time: 4:00 p.m./Check out time: 11:00 a.m.
- Early Departure Fee (charged when guest checks out prior to the reserved check out date): CDN \$94.50. To avoid the charge guests must inform the hotel before or at check-in if they wish to change the check-out date to an earlier date.
- Deposit refunds: Room deposits are refundable if reservations are cancelled up to 72 hours in advance of guests' arrival.
- Reservations in ASA group: Complimentary internet access in sleeping rooms with enrollment into Fairmont President's club (membership in program is complimentary). Enroll in advance or upon arrival at <https://www.fairmont.com/fpc>

### RESERVATION PROCEDURES

#### Online Reservations

Reservations can be made online directly with the Fairmont Empress at the website listed below, which has been set up specifically for the meeting where the meeting rates and all applicable information is incorporated.

**Fairmont Empress online reservation link**  
(<https://aws.passkey.com/go/acousticalsocamer>)

#### Telephone Reservations

Online reservations are recommended. From US or Canada call 800-257-7544. From all other countries call 800-441-1414. When making reservations by phone you must mention the Acoustical Society of America or **group code Acoustical Society** to obtain the special ASA room rates:

### ROOM RATES

Single/ Double: CDN \$189  
Room Types: Fairmont or Deluxe

Charge for each extra person sharing room: CDN \$30/Maximum occupancy per room is 4 persons  
No charge for children up to and including 18 years of age sharing room with their parents  
Other room types at higher rates are available and can be found on the online reservation site

Taxes and Fees: 17.16% Total  
11% (PST) + 5% (GST)  
Destination Marketing Fee: 1%

Rates will be offered, based on availability, 3 days before and 3 days after the meeting dates

**Reservation cut-off date: 10 October 2018 at 11:59 p.m. PST**

**Victoria Marriott Inner Harbour Hotel  
728 Humboldt Street, Victoria, BC V8W 3Z5, Canada**

Please make your reservation directly with the Victoria Marriott Inner Harbour. Online reservations are recommended.

**HOTEL POLICIES**

- Reservations must be accompanied by a first-night's room deposit or guarantee with a major credit card.
- Check in time: 4:00 p.m./Check out time: 12:00 noon
- First night's Room & Tax will be charged if cancellations are received 3 days or less prior to arrival.
- First night's Room & Tax will be charged if guests do not check in on their scheduled arrival date and who have not cancelled their reservations (no shows)
- Complimentary wifi throughout hotel

**RESERVATION PROCEDURES**

**Online Reservations**

Reservations can be made online directly with the Victoria Marriott Inner Harbour at the website (link below) which has been set up specifically for the meeting where the meeting rates and all applicable information is incorporated.

**Victoria Marriott Inner Harbour online reservation link**

([http://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkData=Acoustical%20Society%20of%20America%20Meeting%5Eyyjmc%60ASAA%7CASAASAB%7CASAASAZ%7CASAASAC%60169.00-229.00%60CAD%60false%604%6011/1/18%6011/12/18%6010/10/18&app=resvlink&stop\\_mobi=yes](http://www.marriott.com/meeting-event-hotels/group-corporate-travel/groupCorp.mi?resLinkData=Acoustical%20Society%20of%20America%20Meeting%5Eyyjmc%60ASAA%7CASAASAB%7CASAASAZ%7CASAASAC%60169.00-229.00%60CAD%60false%604%6011/1/18%6011/12/18%6010/10/18&app=resvlink&stop_mobi=yes))

**Telephone Reservations**

Attendees can book individually by calling reservations toll-free at 1-888-236-2427 and asking for the Acoustical Society of America Meeting group rate.

**ROOM RATES**

Deluxe Single/ Double: CDN \$169 (Triple: CDN \$199/Quad: \$229)

Other room types at higher rates are available and can be found on the online reservation site

Rates will be offered, based on availability from 11/1/2018 to 11/12/2018

Taxes and Fees:  
11% (PST) + 5% (GST)  
Destination Marketing Fee: 1%

**Reservation cut-off date: 10 October 2018 at 5:00 p.m. PST**

## GENERAL INFORMATION

### ROOM SHARING

ASA will compile a list of those who wish to share a hotel room and its cost. To be listed, send your name, telephone number, e-mail address, gender, smoker or nonsmoker preference, not later than 1 October 2018 to the Acoustical Society of America, by e-mail, [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org). The responsibility for completing any arrangements for room sharing rests solely with the participating individuals.

### COMMITTEE MEETINGS

Meetings of Administrative, Technical and Standards Committees, including Working Groups, will be announced in the meeting program if requests are received not later than 29 May 2018. Requests for meeting space, special luncheons, etc., should be made as early as possible to: Jolene Ehl, [jehl@acousticalsociety.org](mailto:jehl@acousticalsociety.org). Reservations will not be taken by phone. Requesters should note that space is limited, and that late requests can be filled only on a space-available basis.

### SPECIAL ACCESSIBILITY

Meeting attendees who have special accessibility requirements, should indicate their needs by informing ASA at [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org) not less than 30 days in advance of the meeting. Please provide a cell phone number, e-mail address, and detailed information so that we may contact you directly.

### ACCOMPANYING PERSONS PROGRAM

Accompanying Persons and other visitors are welcome at the Victoria meeting. The registration fee for accompanying persons is USD \$150 for preregistration by 8 October 2018 and USD \$200 thereafter, including on-site registration at the meeting. There will be a hospitality room in the Conference Centre/Empress Hotel for participants. The program will include speakers on the history and culture of the city. Check the meeting website for updated information.

Victoria, the capital of British Columbia, is located on the southern tip of Vancouver Island. Centered on the bustling Inner Harbour, and graced with abundant parkland and gardens, the city is a unique blend of old world charm and new world experiences. Within a short walk of the meeting hotels is a multitude of museums and attractions as well as a broad range of culinary experiences. There are also a number of excellent tours available, including historic and cultural city sights, the world-famous Butchart Gardens, and whale-watching excursions. Tourism Victoria (<https://www.tourismvictoria.com>) and the Victoria Visitors Centre (812 Wharf St) are great resources.

### WEATHER

Victoria has a Mediterranean climate with mild fall/winter weather. Average high and low temperatures in November are 50° F (10° C) and 43° F (6° C), respectively. Rainfall is common in Victoria in the fall and occurs an average of 15 days in November. Carrying a small foldable umbrella may be useful for occasional showers.

## REGISTRATION INFORMATION

Register online at <http://AcousticalSociety.org> or use the form on page 21. **If your registration is not received at the ASA headquarters by 8 October 2018 you must register on-site.** The registration desk at the meeting will open on Monday morning, 5 November.

**Registration fees are USD as follows:**

<u>Category</u>	<u>Preregistration by 8 October</u>	<u>Onsite Registration</u>
ASA/CAA Members	\$550	\$650
ASA/CAA Members One-Day Attendance*	\$275	\$375
Nonmembers	\$700	\$800
Nonmembers One-Day Attendance*	\$350	\$450
Nonmember Invited Speakers One-Day Attendance*	\$0	\$0
Nonmember Invited Speakers—Full Week (Includes one-year ASA membership upon completion of an application)	\$350	\$350
ASA/CAA Early Career Member (ASA members within 3 years of their most recent degrees—proof of date of degree required)	\$275	\$375
ASA/CAA Student Members (with current Student ID)	\$100	\$150
Nonmember Students (with current Student ID)	\$200	\$250
Undergraduate Students (with current Student ID)	\$25	\$25
ASA/CAA Emeritus Members (Emeritus status pre-approved by ASA or CAA)	\$150	\$200
Accompanying Persons (Registrants who are not authors or coauthors on abstracts and/or will not participate in or attend technical sessions)	\$150	\$200

**Nonmembers** who register for the full week and simultaneously apply for Associate Membership in the ASA will be given a USD \$50 discount off their dues payment for the first year (2019) of membership. Invited speakers who are members of ASA are expected to pay the registration fee, but **nonmember invited speakers** may preregister for one-day only without charge and on-site for USD \$350. A nonmember invited speaker who pays the full-week registration fee, will be given one free year of membership upon completion of an application form.

**Note: A USD \$25 fee will be charged for cancellations after 8 October 2018.**

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\*One-day registration is for participants who will attend the meeting for only one day. If you will be at the meeting for more than one day either presenting a paper and/or attending sessions, you must register and pay the full registration fee.

Please type or print clearly

[ ] Check here if first time attending an ASA meeting

\_\_\_\_\_  
Last Name (Surname)

\_\_\_\_\_  
First Name Middle Initial

\_\_\_\_\_  
Name as it should appear on your badge

\_\_\_\_\_  
Company/Organization (will be printed on badge)

\_\_\_\_\_  
Street Address

\_\_\_\_\_  
City

\_\_\_\_\_  
State or Province Zip/Postal Code

\_\_\_\_\_  
Country

\_\_\_\_\_  
Telephone Number

\_\_\_\_\_  
E-mail Address

\_\_\_\_\_  
Name of Accompanying Guest (for badge)

Mail form with payment to:  
Acoustical Society of America  
1305 Walt Whitman Rd., Suite 300  
Melville, NY 11747-4300  
FAX (payment by credit card only): 631-923-2875

**If your registration is not received at the ASA headquarters by 8 October 2018 you must register on-site. Preregistrations received after 8 October 2018 will not be processed.**

	up to 8 Oct.	Onsite	
ASA/CAA Members	\$550	\$650	\$ _____
ASA/CAA Members One-Day Circle Day: M T W T F	\$275	\$375	\$ _____
Nonmembers	\$700	\$800	\$ _____
Nonmembers One-Day Circle Day: M T W T F	\$350	\$450	\$ _____
Nonmember Invited Speakers (One-Day Only) Circle Day: M T W T F	\$0	\$0	\$ _____
Nonmember Invited Speakers (More than One-Day) (includes 1 year membership in ASA upon completion of an application)	\$350	\$350	\$ _____
ASA/CAA Early Career Member (ASA members within 3 years of their most recent degrees—proof of date of degree required)	\$275	\$375	\$ _____
ASA/CAA Student Members (attach student ID)	\$100	\$150	\$ _____
Nonmember Students (attach student ID)	\$200	\$250	\$ _____
Undergraduate Students (attach student ID)	\$25	\$25	\$ _____
ASA/CAA Emeritus Members (pre-approved by ASA or CAA)	\$150	\$200	\$ _____
Accompanying Persons (Registrants who will not attend or participate in technical sessions)	\$150	\$200	\$ _____
<b>OPTIONS</b>			
Short Course			
Regular	\$250	\$300	
Student	\$125	\$125	\$ _____
Tutorial Lecture			
Regular	\$15	\$25	
Student	\$7	\$12	\$ _____
Women in Acoustics Luncheon			
Students	\$15	\$15	
Nonstudents	\$25	\$30	\$ _____
Society Luncheon and Lecture	\$30	\$30	\$ _____
<b>TOTAL REMITTANCE (U.S. Dollars)</b>			<b>\$ _____</b>

Special Dietary Needs for Luncheons/Socials:  
[ ] Vegetarian [ ] Vegan [ ] Gluten Free [ ] Other:

**PAYMENT METHOD**  
 Check or money order payable to the Acoustical Society of America  
 (Note: Checks must be drawn on a U.S. bank in U.S. dollars. Non-U.S.  
 bank drafts and wire transfer will not be accepted)

VISA                       MasterCard                       American Express

\_\_\_\_\_  
Card Number                      Exp. Date                      Security Code

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Print name above as it appears on card

## INSTRUCTIONS FOR SUBMITTING ABSTRACTS ONLINE

Complete instructions for the preparation and submission of abstracts is provided online.

Acknowledgment that your abstract has been received will be sent by e-mail. **Please note that if you do not receive an email message your abstract has not been entered into the database.**

1. Online Abstract Submission site is accessed on the ASA Home Page at <http://AcousticalSociety.org>
2. Click "Submit Abstract for the Victoria meeting" from the main page
3. You must first create an account and set up a username and password if you have not already done that in connection with submission of abstracts for prior ASA meetings.
4. After logging into the submission site, click the "Submission" tab.
5. To begin a new abstract click "Create a New Abstract" in the sidebar located on the left-hand side of the screen.
6. If at any time during the submission process you need technical support click the "Get Help Now" button at the top of the screen.
7. Abstracts are limited to 200 words (approximately 1500 characters).
8. The body of the abstract can be cut and pasted into the submission site. Note that LaTeX coding must be entered using the Special Character palette which appears on the Title/Body Screen.
9. Enter all authors and their affiliations in the order they should appear in the abstract. **Note: Only one affiliation may be included for each author.**
10. Carefully check the proof of your abstract. Make sure all special characters and formatting are displaying properly and that the authors and affiliations are listed in the proper order.
11. When all the required information for your submission is entered, the "Submit Abstract" button will appear at the Proof and Submit stage. Click the "Submit Abstract" button to submit the abstract.
12. Upon submission of your abstract you will receive an e-mail confirmation.
13. To view or edit an existing submission click "View Submissions" in the sidebar located on the left-hand side of the screen.
14. To edit an existing submission you must select "Return to Draft" and then select "Edit." All abstracts that are returned to draft must be resubmitted to be entered into the system. If not, the submission will remain in the Drafts table.

## ASA BEST PAPER AWARDS FOR STUDENTS AND YOUNG PRESENTERS

Several 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: USD \$300 for first prize and USD \$200 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

**Special Note for Speech Communication entries:** Choose Poster Only as your preferred presentation type during the abstract submission process to be eligible for the Best Student Poster Award Competition for Speech Communication. If you do not choose 'Poster Only' and your paper is subsequently assigned to an oral presentation, you cannot be considered for the Best Student Poster Award Competition for Speech Communication. Entrants in Speech Communication who submit more than one abstract may enter only one in the Best Student Paper Award Competition.

**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.

### PHYSICAL ACOUSTICS BEST STUDENT PAPER AWARD

The ASA Technical Committee for Physical Acoustics (PATC) is offering a Best Paper award for students presenting papers in sessions organized by PATC. The award will be based upon a written paper submitted to Proceedings of Meetings on Acoustics (POMA).

**Award Amounts:** Up to two awards will be presented, USD \$300 for first prize and USD \$200 for second prize.

#### Qualifications:

To qualify for the award, an author must:

- ▶ be enrolled as a student at least half-time (graduates are eligible if the presented work 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 and POMA manuscript
- ▶ submit the POMA manuscript by the competition deadline, which is 14 days prior to the start of the meeting. For this meeting, manuscripts must be submitted on or before 21 October 2018. present the paper at the meeting

**Selection:** The award winner(s) will be selected by a subcommittee that will judge submitted POMA manuscripts based on technical content, writing quality, and overall excellence. The Best Paper award(s) will be announced at the PATC meeting. Note that the paper judging will take place concurrently with the ordinary editorial review of a POMA submission; each judged paper will be returned with comments and a publication decision.

**Application:** Those who intend to participate in the competition so indicate during the abstract submission process by clicking the entry box on the online submission form. Students will be contacted by the award subcommittee after abstracts have been accepted.



## 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 USD \$250 each will be given for outstanding papers presented in sessions organized by the Technical Committee on Noise.

Signal Processing - One award of USD \$500 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, the paper author must:

- ▶ be under 30 years of age as of 1 January 2018
- ▶ 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.

### 176<sup>TH</sup> Meeting Committee

Chair.....	Stan Dosso
Technical Program Chair.....	Roberto Racca
Student Coordinators.....	Jorge Quijan, Graham Warner
Special Events.....	Sonya Bird, Xavier Mouy
Signs.....	Svein Vagle, Tom Dakin
Catering.....	Terry Russell
Accompanying Persons.....	Shelley Dosso