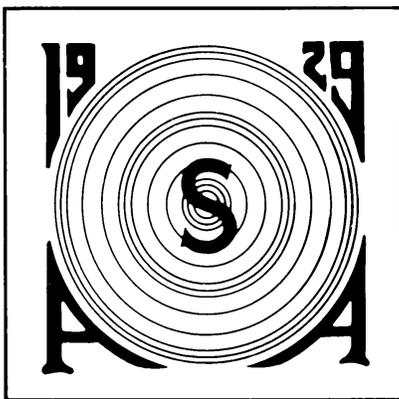


# **Announcement and Call for Papers**

**5<sup>th</sup> Joint Meeting**

**Acoustical Society of America and Acoustical Society of Japan**



**Hilton Hawaiian Village Waikiki Beach Resort  
Honolulu, Hawaii**

**28 November–2 December 2016**

**Deadline for receipt of abstracts: 11 July 2016**

**5<sup>th</sup> Joint Meeting**  
**Acoustical Society of America and the Acoustical Society of Japan**

**ASA Meeting Committee**

Chair.....Whitlow W. L. Au  
Cochair ..... David L. Adams  
Technical Program Chair ..... Bruce M. Howe  
Audio Visual ..... Gary McAuliffe  
Food/Beverage..... David L. Adams/Robert Badham  
Signs ..... Benjamin Reeder  
Posters ..... Aude Pacini  
Accompanying Persons ..... Dorothy Au  
Student Coordinator ..... Jessica Chen  
Meeting Administrator ..... Robert Badham

**ASJ Meeting Committee**

Cochair ..... Yoshiaki Watanabe  
CoChair ..... Akio Ando  
Vice Chair..... Hiroshi Sato  
Technical Program Chair ..... Hiroshi Saruwatari  
Secretary ..... Yasuhiro Oikawa

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Dear Acoustician,

We enthusiastically invite you to attend the fifth joint ASA/ASJ meeting which will be held on the beautiful island of Oahu, Hawaii.

Those of you who have attended past joint meetings know that this is a beautiful site on the Pacific Ocean with access to many shops and restaurants. The fact that Hawaii is located between North America and Asia provides a special opportunity to meet with colleagues from these two continents, as well as from around the world.

We look forward to receiving your abstract and seeing you in Hawaii.

Sincerely,

Michael R. Stinson and Kentaro Nakamura  
President, ASA and President, ASJ

## MEETING ANNOUNCEMENT AND CALL FOR PAPERS

The 5<sup>th</sup> Joint Meeting of the Acoustical Society of America (ASA) and the Acoustical Society of Japan (ASJ) will be held Monday through Friday, 28 November–2 December 2016 at the Hilton Hawaiian Village Waikiki Beach Resort, Honolulu, Hawaii, USA. A block of rooms has been reserved at the Hilton Hawaiian Village Waikiki Beach Resort at discounted rates. Information about the meeting also appears on the ASA webpage at [AcousticalSociety.org](http://AcousticalSociety.org).

**The deadline for receipt of abstracts is 11 July 2016. 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, 28 November–2 December.

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)

Acoustic Scattering by Aquatic Organisms  
(Joint with Animal Bioacoustics, Signal Processing in Acoustics)  
Organized by: Timothy K. Stanton, Kelly Benoit-Bird, Kouichi Sawada

Ocean Acoustic Tomography: Active and Passive, Theory and Experiment  
(Joint with Underwater Acoustics and Signal Processing in Acoustics)  
Organized by: Bruce M. Howe, Arata Kaneko, Hiroyuki Hachiya

Twenty-Five Years of Acoustical Oceanography in the ASA  
Organized by: Andone Lavery, Michael J. Buckingham

### ANIMAL BIOACOUSTICS (AB)

Anthropogenic Transient Noise Sound Field and Its Effects on Animal Communication  
(Joint with Signal Processing in Acoustics)  
Organized by: Shane Guan, Satoko Kimura

Bat Echolocation: New Insights on Biosonar Production, Processing and Performance From Field and Laboratory Investigations  
Organized by: Laura Kloepper, Hiroshi Riquimaroux

Behavioral Response Studies  
Organized by: Rebecca Dunlop, Kotaro Ichikawa

Sequence Information in Mammalian Vocal Call Production  
(Joint with Signal Processing in Acoustics, and Speech Communication)  
Organized by: Marie A. Roch, Tadamichi Morisaka

### DESCRIPTIVE SENTENCES

Various aspects of acoustic scattering by aquatic organisms, including advancements in technology, modeling of acoustic scattering, and measurements in the laboratory and in the ocean to advance our understanding of biological processes

Recent ocean acoustic tomography experiments in shallow seas and straits, over hot vent fields, in the Arctic Ocean, and the open tropical seas; experimental and theoretical efforts to perform passive tomography (noise interferometry)

Celebration of twenty-five years of Acoustical Oceanography in the ASA—a mix of retrospective, contemporary and visionary papers; papers on the latest research in physical, geological, chemical and biological oceanography are encouraged. Topics of particular interest include acoustic imaging, inversion and tomography, as well as parameter estimation, remote sensing, and acoustic instrumentation for ocean exploration

Methods used to quantify reverberant fields from anthropogenic transient noises (e.g., seismic air gun impulses), characteristics of certain anthropogenic transient noise sound fields, and potential effects (acoustic masking, vocal behavioral change, etc.) on animal communication in such fields

New investigations of bat echolocation combining results from the field and the laboratory. A focus will be on research into their biosonar production, processing, and performance

Work on behavioral response studies/playback studies on various groups of animals. While the focus is expected to be on marine mammal behavioral response studies, presentations on terrestrial taxa, experimental design and data analysis are welcome

Methods to study acoustic sequences in mammals including sequences of acoustic units in animal communication that have a variety of functional uses such as mate attraction, advertisement of resources, etc.

## **ANIMAL BIOACOUSTICS (AB) (continued)**

Session in Honor of Whitlow Au  
Organized by: Kelly Benoit-Bird, Marc Lammers, Tomonari Akamatsu

Tropical Bioacoustics  
Organized by: Thomas. F. Norris, Thomas Akamatsu

## **ARCHITECTURAL ACOUSTICS (AA)**

Acoustical Design Metric Comparison Between the US and Japan  
Organized by: David Manley, Hayato Sato

Acoustics for Children and Pupils  
Organized by: Dave Woolworth, Keiji Kawai

Advanced Analysis, Simulation, and Auralization in Room Acoustics  
(Joint with Signal Processing in Acoustics)  
Organized by: Michael Vorländer, Tetsuya Sakuma, Toshiki Hanyu

At the Intersection of Speech and Architecture  
(Joint with Speech Communication)  
Organized by: Catherine L. Rogers, Kenneth W. Good, Takashi Yamakawa, Yasushi Shimizu

Exploration of Lombard Effect for Improved Classroom Acoustics  
Organized by: David Lubman

It's All About the Details  
Organized by: Shane Kanter, John Strong, Kimihiro Sakagami

## **BIOMEDICAL ACOUSTICS (BA)**

Acoustic Imaging  
(Joint Engineering Acoustics and Signal Processing in Acoustics)  
Organized by: Yasuhiro Oikawa, Hideyuki Hasegawa

Acoustics for Older Persons with Disabilities  
Organized by: Takayuki Arai, Mari Ueda

Bone Sonometry: Ultrasonic Studies of the Physical Properties of Cortical and Cancellous Bone  
(Joint with Signal Processing in Acoustics)  
Organized by: James G. Miller, Mami Matsukawa

High-Frame Rate Imaging with Plane Waves and Diverging Waves  
Organized by: Jeffrey Ketterling, Alfred Yu, Hideyuki Hasegawa

## **DESCRIPTIVE SENTENCES**

A broad, forward looking view on animal bioacoustics and the role Whitlow Au's work has played in advancing the field including the production, reception, and processing of sounds by animals in the marine environment, biosonar, biomimetic sonar, and backscatter from biological targets

Tropical and sub-tropical animal bioacoustics including diverse taxa, such as insects, fish, birds and mammals (terrestrial and marine), acoustic behaviors, acoustic ecology, soundscapes and sensory biology; Researchers studying rare and endangered, or poorly studied species, are encouraged to submit abstracts

Discussion of the different metrics used in the U.S. and Japan to discern room acoustics and classroom acoustics

The problem of high noise environments in kindergartens and primary schools in Japan and the demand for acoustic treatments in these spaces will be discussed from various viewpoints

Contributions to advanced three-dimensional temporal-spectral measurement and simulation methods, particularly on signal-dependent analysis, and on auralization and perception studies in dynamic situations

The presentation and reception of speech for both intelligibility and privacy must consider the speech, hearing, (human) audio processing and the architectural conditions for both the talker and listener. This session will discuss both how we speak/hear and the built environment where this occurs to better understand this intersection

Unexpected significant improvements in classroom acoustics by reduction of reverberation time to about 0.3 seconds due to exploitation of Lombard effect based on post-2002 studies

Interesting essential detailing that is implemented to achieve and maintain acoustic isolation, mechanical noise control, vibration isolation, and acoustic absorption and successes and failures in isolation systems

The social needs and requirements of an aging population often with disabilities are growing all over the world. This session will discuss acoustical technologies and solutions for attacking the associated problems. For example, acoustical design and controls of products and facilities

Results of recent progress and new ideas on acoustic imaging, looking toward the future, including the representation of sound, visualization of sound, measurement techniques using sound, auralization, and device techniques

State of the art of this developing field of ultrasonic tissue characterization, defined as quantitative measurements of the properties of tissue, which have been successful in the diagnosis of osteopenia and osteoporosis

Exploration of the emerging field of high-speed imaging using plane waves and diverging waves including signal processing, beamforming, tissue dynamics characterization, vector flow imaging, and medical applications

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

Medical Acoustics in Kidney and Liver Disease  
Organized by: Michael Bailey, Norihiro Koizumi

Photoacoustics: Light and Sound  
(Joint with Physical Acoustics)  
Organized by: Kang Kim, Parag Chitnis, Yoshifumi Saijo

Quantitative Ultrasound: From Micro to In-vivo  
Organized by: Jonathan Mamou, Tadashi Yamaguchi

Recent Advances in the use of Cavitation in Therapeutic  
Ultrasound  
(Joint with Physical Acoustics)  
Organized by: Lawrence Crum, Tatiana Khokhlova, Zhen Xu,  
Shin-ichiro Umemura

Session in Honor of Floyd Dunn  
Organized by: William D. O'Brien, Jr., Yoshifumi Saijo

Ultrasound-Induced Bubbles for Soft Tissue Fractionation:  
Approaches, Bioeffects and Clinical Applications  
(Joint with Physical Acoustics)  
Organized by: Tatiana Khokhlova, Zhen Xu, Shin-ichiro Umemura

## **ENGINEERING ACOUSTICS (EA)**

Acoustic Transduction Material, Sensors, and Array Technologies  
Organized by: Dehua Huang, Yasuhiro Oikawa

Outdoor Sound Propagation and Outdoor Public Address  
(Joint with Physical Acoustics)  
Organized by: JohnPaul R Abbott, Yoshifumi Chisaki

Sound Field Control Techniques  
Organized by: Stephen Elliott, Yoshinobu Kajikawa

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

Attractive Educational Methods and Tools in Acoustics  
Organized by: Tracianne Neilsen, Kazuhiko Kawahara

Demonstrations and Tools in Acoustics Education  
Organized by: Tracianne Neilsen, Akira Nishimura

Education in Acoustics for Kids (K-12 students)  
Organized by: Andrew Morrison, Sakae Yokoyama

Using Computers for Acoustics Education  
(Joint with Signal Processing in Acoustics)  
Organized by: Victor Sparrow, Hiroshi Suda

## **DESCRIPTIVE SENTENCES**

Laboratory, pre-clinical or clinical use of acoustics in investigating, diagnosing, monitoring, or treating liver and kidney diseases such as but not limited to, liver and kidney cancer, kidney stones, or liver steatosis

Photoacoustic (or optoacoustic) technologies and their applications in biomedical imaging and therapy: Photoacoustic devices, imaging and signal processing techniques, novel photoacoustic contrast agents for targeted molecular/functional imaging and drug delivery, and theranostic approaches

Recent advances in quantitative ultrasound for biomedical applications including fundamental methods and newest available technologies with emphasis on quantitative ultrasound methods using high-resolution or in-vivo

Multiple sessions will be centered around the use of cavitation and bubble dynamics in therapeutic ultrasound, including drug delivery, histotripsy, blood-brain barrier opening and related topics

Honoring the work and contributions of Floyd Dunn

Methodology, systems design and characterization and clinical applications of mechanical destruction of soft tissue by ultrasound-induced bubbles

Advanced materials and methods for acoustic transducers and array systems

Sound propagation in a field, public address, and related research and applications

Sound field control involving the selective enhancement and attenuation of different acoustic components in both the spatial and the spectral domains

Attractive methods, tools, and materials for education in acoustics.

Session is open for all demonstrations of educational materials or tools; if serving as a supplement to a paper in another Education in Acoustics session, no additional abstract required

Case studies and workshops on education in acoustics for kids (K-12 students) from classrooms, but also from science museums or other extracurricular work

How computer programs and/or programming can be used to help improve acoustics education. Contributions from all application areas, from teaching grade school students, to high school students, to undergraduates, to graduate students, and to professionals in the workforce

## INTERDISCIPLINARY (ID)

Topical Meeting on Data Science and Acoustics  
Organized by: Matthew Blevins, Joonhee Lee, Andrew Christian,  
Hiroshi Sato

## MUSICAL ACOUSTICS (MU)

East and Western Instruments: Contrasts and Connections  
Organized by: James P. Cottingham, Toru Kamekawa

Computational Methods of Simulation for Musical Acoustics  
(Joint with Signal Processing in Acoustics)  
Organized by: Nicholas Giordano, Seiji Adachi

Flute Acoustics Including All "Air-Jet" Instruments  
Organized by: Nicholas Giordano, Naoto Wakatsuki

Music and Sound in Multimedia  
Organized by: Jonas Braasch, Shin-ichiro Iwamiya

Musical Instruments from Islands Around the World  
Organized by: Sharon Paley, Peter Hoekje

Music Signal Processing  
(Joint with Signal Processing in Acoustics)  
Organized by: James W. Beauchamp, Masataka Goto

Piano Acoustics and Playing Piano  
Organized by: Nicholas Giordano, Isoharu Nishiguchi

## NOISE (NS)

Acoustics of Microperforated Materials  
Organized by: J. Stuart Bolton, Zenzo Yamaguchi

Ambient Listening, Communication and Noise Reduction of  
Special Hearing Protectors  
Organized by: Richard McKinley, Hilary Gallagher

Community Response to Transportation Noises  
Organized by: James E. Phillips, Takashi Yano

Current Issues in Hearing Protection and Hearing Conservation  
Organized by: Elliott Berger, Jinro Inoue

Design of Noise Control Materials  
Organized by: J. Stuart Bolton

Emerging Issues on Quiet Vehicles - A Matter of Soundscape  
Organized by: Brigitte Schulte-Fortkamp, Klaus Genuit, Katsuya  
Yamauchi

## DESCRIPTIVE SENTENCES

Topical Meeting to introduce the rapidly growing area of data science to many in the acoustical community, as well as to highlight current work being conducted in this area including any data-science related topics like time series data mining, visualization, machine learning and reproducible research

Acoustics of musical instruments of Asian or Western origin with focus on comparisons and relationships between the two families of instruments, both historical and acoustical

Novel methods for producing simulations of musical instruments

Instruments which use an air-jet to produce sound such as flutes, recorders, whistles, and others

Discussion of music, sound effects and speech psychologically and acoustically in the context of multimedia contents, e.g., films, video games, animated movies

Ethnic musical instruments indigenous to islands from around the world as well as modern musical instruments influenced by island cultures from around the world

Signal processing methods including methods used for music information retrieval, automatic music transcription, sound effects processing, synthesis model estimation, and display of timbre parameters.

Acoustical analysis of pianos and analysis of piano performances

Survey of recent advances in design, manufacturing and application of microperforated noise control materials

Passive and active devices which restore localization cues and promote speech communication capabilities in relation to the many occupations that require ambient listening and communication capability while working in impulsive and/or continuous noise environments

Effective means to utilize and archive large scale questionnaire surveys that are conducted continuously for the wide range of transportation noise problems such as railway, and road traffic noise

Issues from hearing protection devices and impulse noise to test uncertainty, from international regulations to field fit testing, and from speech in noise to hearing conservation in Japan

Studies of optimal design of acoustical materials and treatments, e.g., by topological analysis

Hybrid and electric cars are often difficult for people to hear and avoid, leading to the introduction of alerting noise; actual situations and desired design guidelines will be discussed taking into account recent work in this field

## **NOISE (continued)**

Innovations in Floor Impact Noise Testing and Evaluation  
(Joint with ASA Committee on Standards and Architectural  
Acoustics)  
Organized by: David Lubman, John LoVerde, Manabu Tanaka

Low Frequency Noise: Measurement, Evaluation, Enforcement,  
and Policy  
Organized by: David Woolworth, Yukio Takahashi

Noise Impacts and Soundscapes at Outdoor Gathering Spaces  
(Joint with Architectural Acoustics)  
Organized by: K. Anthony Hoover, Brigitte Schulte-Fortkamp

Prediction of Transportation Noises  
Organized by: James Phillips, Shinichi Sakamoto

Sound Design  
Organized by: Andre Fiebig, Patricia Davies, Takeshi Toi

Wind Turbine Noise  
Organized by: Paul Schomer, Nancy Timmerman, Hideki  
Tachibana, Yasuaki Okada

## **PHYSICAL ACOUSTICS (PA)**

Acoustics of Supersonic Jets  
(Joint with Noise)  
Organized by: Kent Gee, Seiji Tsutsumi

Acoustic Micro- and Nanofluidics  
(Joint with Biomedical Acoustics)  
Organized by: Tony Jun Huang, James Friend, Daisuke Koyama

Advances in Hazards Monitoring with Distributed Infrasound  
Sensor Networks  
Organized by: Milton Garces, Takahiko Murayama

Nonclassical Nonlinear Acoustics of Solids  
Organized by: Lev Ostrovsky, Paul Johnson, Yoshikazu Ohara

Solid State Acoustics  
Organized by: Joseph Gladden, Hirotsugu Ogi

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

Gap Detection: New Perspectives from Neuroscience, Perception  
and Modelling  
(Joint with Speech Communication)  
Organized by: Willy Wong, Shuji Mori

## **DESCRIPTIVE SENTENCES**

Innovations in floor impact sound testing and evaluation; topics on testing in same room (not room below) for classroom quietness; innovative products being developed for quiet room environment

Difficulties and techniques of measurement of low frequency noise for the purpose of investigating a complaint or violation of law, the complications introduced by low frequency sensitivity, and noise laws that include low frequency

Noise impacts, noise sources, how they are measured, how they are evaluated, how they might be resolved, and considerations regarding outdoor soundscapes

Current approaches and improvements to models used to predict noise from transportation sources

Increasingly, industrial products must be designed to reduce negative impacts of noise and to create sounds that produce positive impressions of the product. For machine operation sounds, generation and propagation control measures must be manipulated to optimize the overall product sound, while meeting non-acoustic specifications, a challenging process. Practical sound design examples and methodologies will be discussed

Essential issues related to wind turbine noise as an inevitable problem for clean energy policy, such as characteristics of noise itself and the effective evaluation method

Experiments and simulations describing noise from rockets, military aircraft, and other sources of supersonic jets

Recent developments from basic physical phenomena to engineering applications of the burgeoning field of acoustic micro and nanofluidics, making use of acoustic waves to manipulate and control fluids, fluid interfaces, and suspended particles

Advances in the monitoring of both natural and manmade hazards, including (but not limited to) volcanoes, earthquakes, tsunamis, typhoons, explosions, and industrial accidents

Contributions related to the exotic nonlinear elastic and plastic behavior of solids, in particular earth solids and damaged solids at all scales

Broad focus on production, propagation, detection, and applications of acoustics in the solid state

Within- and across-channel gap detection has proved to be a useful measure of auditory temporal resolution. Research is ongoing with a number of different approaches and avenues: psychoacoustical experimentation, electrophysiological measurements at the brainstem and cortical levels, as well as mathematical modelling

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

Linking Human Physiology with Psychoacoustics—From  
Brainstem to Cortical Measurements and Beyond  
Organized by: G. Christopher Stecker, Adrian K.C. Lee, Seiji  
Nakagawa

Perspectives of Research in Overlooked Hearing Problems  
(Joint with Speech Communication)  
Organized by: Michael Heinz, Shigeto Furukawa

Recent Progress in Auditory Perceptual Organization Studies  
Organized by: Barbara Shinn-Cunningham, Makio Kashino

Spatial Hearing and its Applications  
Organized by: Douglas S. Brungart, Griffin Romigh, Brian F. Katz,  
Kazuhiro Iida, Yoiti Suzuki, Yukio Iwaya

**SIGNAL PROCESSING IN ACOUSTICS (SP)**

Acoustic Communications  
Organized by: Grace A. Clark, Henry Scarton, Tadashi Ebihara

Compressive Sensing in Acoustics  
Organized by: Peter Gerstoft, Yoshifumi Shiraki

Exploitation of Doppler in Acoustic Signal Processing  
Organized by: Paul Hursky, Shinnosuke Hirata

Detection, Tracking, and Classification of Unmanned Aircraft and  
Underwater Vehicles  
(Joint with Underwater Acoustics)  
Organized by: Geoffrey H. Goldman, R. Lee Culver

High Resolution Imaging Sonars Including Real Aperture,  
Synthetic Aperture and Tomographic Sonars  
Organized by: Timothy Marston, Brian Ferguson, Akira Asada

Signal Processing in Nonlinear Acoustics  
Organized by: Brian E. Anderson, Marcel C. Remillieux,  
Yoshikazu Ohara

Spoken Document Processing  
(Joint with Speech Communication)  
Organized by: Andrew Rosenberg, John H. L. Hansen, Norihide  
Kitaoka

Time Delay Estimation of Acoustic Signals with Applications  
Organized by: Cliff Carter, Brian Ferguson, Kenta Niwa

**DESCRIPTIVE SENTENCES**

Latest research focus in linking human physiology, ranging from  
brainstem measurements to neuroimaging as well as automatic  
responses, to our better understanding of the psychological  
aspects of sound processing

Recent advances in auditory research have allowed scientists to  
explore basic mechanisms underlying hidden hearing loss and  
potential impact on real-world listening

Recent developments in studying the effects of stimulus context  
and attention on auditory perceptual organization, using  
computational, statistical and modern neurophysiological  
approaches

Principles of spatial hearing and its applications including binaural  
reproduction, transaural reproduction, and multi-point sound field  
control

Contributions in acoustic communications, both analog and digital,  
in various material modes and application areas including various  
modes from air and underwater pressure wave propagation to  
elastic and shear wave propagation; and various applications from  
underwater communication to ultrasonic power harvesting

Advances in theory, methods, and applications in compressive  
sensing for acoustic signal processing

Research in acoustic modeling and processing where Doppler  
plays a significant role

Performance of systems, development of algorithms, and new  
techniques to detect, track and classify unmanned aircraft systems  
(UAS) and unmanned underwater vehicles (UUV)

Recent advances in high resolution sonar imaging including  
aperture synthesis. Of topical interest is the performance of these  
sonars in complex environments or when structural waves are  
excited on the object being imaged

Extraction of nonlinear signatures and/or the use of signal  
processing to exploit nonlinearity of a medium. Applications to  
include nondestructive evaluation, imaging applications,  
communications, and signal extraction

Multimedia content, including speech, such as meeting recordings  
and conference presentations, can be processed by speech  
recognition technologies. There are many applications: automatic  
transcription, diarization, and content search. Work will be  
presented by frontier researchers and coordinators of competitions  
in this field

Time delay estimation in the presence of source or receiver motion  
and time delay estimation and localization of acoustic sources in  
air and under water including air vehicles, ground vehicles, surface  
vessels, underwater vehicles, and weapon fire

## **SPEECH COMMUNICATION (SC)**

Cross-Linguistic Speech Production and Perception  
Organized by: Katie Drager, Timothy J. Vance

Research that demonstrates the influence of one language/dialect/sociolect on another in speech production and perception, and topics including second-language speech learning, pidgins and creoles, language contact, and sociophonetics

Double-Weak Theory of Speech Production and Perception:  
A Session in Honor of Terrance Nearey  
Organized by: Michael Kiefte, Hideki Kawahara

Papers highlighting the influence of Terrance M. Nearey on experiments in speech perception and production as well as his own work and his distinguished career in speech research

Second Language Speech Learning and Education  
(Joint with Education in Acoustics)  
Organized by: Tessa Bent, Keiichi Tajima

Learning and training of pronunciation and perceptual skills in a second language by non-native learners and research from various fields, including articulatory/acoustic/auditory phonetics, psychology, speech and hearing science, brain and neuroscience, foreign language teaching, and speech technology

Speech Robotics  
(Joint with Signal Processing in Acoustics)  
Organized by: Philip Rubin, Masakaki Honda

Focus on the possibility of a realistic speaking robot from viewpoints ranging from mechanical speech synthesis to the communication robot

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

Building Vibration Analysis, Measurement and Mitigation  
(Joint with Noise)  
Organized by: James Phillips, Hasson Tavossi, Yoshihiro Hirao

Analyzing, measuring, and mitigating the frequency response of buildings to internal and external (e.g., ground vibration) sources

Dynamics of Ribbed Structures  
Organized by: Andrew J. Hull, Elizabeth A. Magliula, Toru Yamazaki

Modeling, testing and discussion of ribbed structures including continuous elastic structures such as plates, shells and three dimensional elastic bodies reinforced with a single rib or a multiple number of ribs

Fluid Flow Induced Vibration and Noise  
(Joint with Physical Acoustics, Noise)  
Organized by: Kuangcheng Wu, Robert M. Koch

Analytical, computational, and/or experimental investigations into the generation of sound and structural vibration with fluid flow-related origins. Fluid flows may be steady or unsteady in nature and the resulting response may be structural, acoustic, or a combination of both

Metamaterials  
(Joint with Physical Acoustics)  
Organized by: Jeffrey Cipolla, Christina Naify, Michael Haberman

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

Non-Contact Vibration Excitation and Sensing Techniques  
(Joint with Physical Acoustics, Engineering Acoustics, Signal Processing in Acoustics)  
Organized by: Scott D. Sommerfeldt, Brian E. Anderson

Non-contact excitation and/or non-contact sensing of structural vibration, as well as the development of new approaches to non-contact excitation and sensing techniques

## **UNDERWATER ACOUSTICS (UW)**

Harbor Acoustics  
(Joint with Signal Processing in Acoustics, Acoustical Oceanography)  
Organized by: Peter Stein, David L. Bradley

Passive and active sonar optimization, and the measurement and modeling of underwater acoustic propagation, noise, reverberation, and clutter, in a harbor environment

Nonlinear Effects in Underwater Acoustics and Bubbles  
(Joint with Acoustical Oceanography, Physical Acoustics)  
Organized by: Thomas Muir, James Esplin, Tetsuya Kanagawa

Nonlinear effects and applications in underwater acoustics, including underwater explosions and bubbles

Transmission Through the Air-Water Interface  
(Joint with Noise, Acoustical Oceanography)  
Organized by: Peter H. Dahl, David R. Dall'Osto

Transmission through the air-water interface, in either direction, is emphasized including injection of air-borne sound from aircraft and wind-turbines into the water column

Underwater Acoustics Studies in Asian Seas  
(Joint with Acoustical Oceanography)  
Organized by: Chi-Fang Chen, Chin-Sang Chiu

Presentations about underwater acoustics studies in Asian seas

## OTHER TECHNICAL EVENTS AND INFORMATION

### OPENING PLENARY SESSION

The meeting will begin with an opening plenary session on Monday, 28 November, including two plenary lectures.

Dr. Hiroshi Hosoi of the ASJ and Nara Medical University will present **Cartilage Conduction Hearing—New Sound Conduction Pathway** in which he will discuss the discovery of new sound conduction pathways in mammals.

Dr. Peter Narins from the ASA and the University of California Los Angeles, will present **Adventures of an Expeditionary Biologist: Neuroethology of Ultrasonic Communication in Amphibians**. He will discuss adaptational studies that involve two distantly related organisms: the concave-eared torrent frog (*Odorrana tormota*), calling near fast-flowing mountain streams of Anhui Province, Central China, and the endemic Bornean frog, *Huia cavitympanum*, living in a very similar riverine habitat in Sarawak, Malaysia.

### OPEN MEETINGS OF TECHNICAL COMMITTEES

Technical Committees will hold open meetings on Tuesday, and Wednesday 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.

### EXHIBIT

An instrument and equipment exhibit will be located near the registration area and meeting rooms in the Grand Ballroom Foyer and will open on Monday with an evening reception with lite snacks and a complimentary drink. Exhibit hours are Monday, 28 November, 5:30 p.m. to 7:00 p.m., Tuesday, 29 November, 9:00 a.m. to 5:00 p.m., and Wednesday, 30 November, 9:00 a.m. to 12:00 noon.

The Exhibit will include computer-based instrumentation, scientific books, sound level meters, sound intensity systems, signal processing systems, devices for noise control and acoustical materials, active noise control systems, and other exhibits on acoustics.

Contact the Exhibit Manager for information about participating in the exhibit: Robert Finnegan, Advertising and Exhibits Division, AIP Publishing, LLC, 1305 Walt Whitman Road, Suite 300, Melville, NY 11747-4300, Tel: 516-576-2433; Fax: 516-576-2481; E-mail: rfinnegan@aip.org.

### TECHNICAL TOUR

**Wednesday, 30 November, 8:30 a.m. to 12 noon – limited to 40 participants – Cost USD\$15**

A tour of the Pacific Islands Fisheries Science Center (PIFSC) will be conducted on Wednesday morning with a bus leaving the Hilton Hawaiian Village at 8:30 a.m. and returning before noon.

PIFSC of the National Marine Fisheries Service (NMFS) is part of the National Oceanic and Atmospheric Administration (NOAA). The Center administers and conducts scientific research and monitoring programs that support the domestic and international conservation and management of living marine resources across the Pacific Islands Region. Key research focus areas include: coral reef ecosystems; fishery and protected species population assessments; marine mammal and sea turtle ecology; life history studies of fish; monitoring of fisheries activity; economics; human dimensions of resource management; development of bycatch reduction technologies; health and disease in protected species; fishery interactions with protected species; ecosystem monitoring and integrated assessment; and impacts of climate change on the environment and ecosystems.

Note: All tour participants must submit the following information: place of birth including country, birthdate, and passport number (for non-US citizens). Tour registrants will be sent forms requesting this information after they register. The tour registration fee is USD \$15/person and the tour is limited to 40 participants. Register online at [AcousticalSociety.org](http://AcousticalSociety.org) or use the printed registration form on page 22.

### **PROCEEDINGS OF MEETINGS ON ACOUSTICS (POMA)**

This meeting will have a corresponding volume in Proceedings of Meetings on Acoustics (POMA) the ASA's open-access proceedings journal. Although submission is optional, meeting authors are encouraged to prepare and submit a written version of their paper according to the author instructions found at <http://scitation.aip.org/poma>. Submitted manuscripts will be reviewed by a POMA editor according to technical area.

### **ITINERARY PLANNER AND MOBILE APP**

An itinerary planner and mobile app will be available for the Honolulu meeting.

### **MEETING PROGRAM**

A complete meeting program will be mailed as Part 2 of the October issue of JASA. Abstracts will be available on the ASA webpage <<http://AcousticalSociety.org>> in September.

## 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 edited or truncated.** Authors must submit abstracts online (see page 23).

### ABSTRACT SUBMISSION GUIDELINES

All abstracts must be submitted online by 11 July 2016. This deadline will be strictly enforced. Abstracts submitted via postal mail, fax, or e-mail will not be accepted.

### ABSTRACT DISCLOSURE STATEMENTS

Authors will be asked to answer several questions during the submission process. These include:

- 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

Contributors submitting abstracts online will receive an e-mail message confirming that their abstracts have been received. Acceptance notices will be sent to authors by e-mail in September.

## 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, 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 24.

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

### **AUDIO-VISUAL EQUIPMENT**

PC computers with stereo 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 stereo audio playback capability, computer projectors, and laser pointers is "special equipment." Requests for special equipment (e.g., special speakers, CD players) 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.

## **SPECIAL MEETING FEATURES**

### **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 24 October 2016 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 Honolulu 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 Honolulu meeting, are not currently students, and have not previously received the award. Each award will be of the order of USD \$600 with three 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 Laura Kloepper <[laura\\_kloepper@brown.edu](mailto:laura_kloepper@brown.edu)>. Deadline for receipt of applications is 17 October 2016.

### **DEPENDENT CARE SUBSIDIES**

The Committee on Women in Acoustics (WIA) is sponsoring Dependent Care Subsidies to help with dependent care costs associated with attending the Honolulu meeting. Meeting attendees are eligible to apply if they plan to present a paper at the Honolulu meeting or hold a leadership position in ASA. Each subsidy will be of the order of USD \$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 Fredericka Bell-Berti <[fbellberti@gmail.com](mailto:fbellberti@gmail.com)>. Deadline for receipt of applications is 17 October 2016.

### **ASA RESUME HELP DESK**

Are you interested in applying for graduate school, a postdoctoral opportunity, a research scientist position, a faculty opening, or other position involving acoustics? If you are, please stop by the ASA Resume Help Desk near the registration booths. Members of the ASA who are experienced in hiring will be available to review your CV, cover letter, and research and teaching statements to provide tips and suggestions to help you most effectively present yourself in today's competitive job market. The ASA Resume Help Desk will be staffed on Tuesday, Wednesday, and Thursday during the lunch hour for walk-up meetings. Appointments during these three lunch hours will also be available via a sign-up sheet as well. The Resume Help Desk is sponsored by the Committee on Education in Acoustics.

### **REQUESTING LETTER FOR VISA APPLICATIONS**

Meeting participants who require letters of invitation to apply for U.S. entry visas should send their requests to [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org).

## **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, 28 November, for all students to learn about the activities and opportunities available for students at the Honolulu 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, 30 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.

As an alternative, an interested student may e-mail Dr. David Blackstock <dtb@austin.utexas.edu> the following information: name, university, department, degree being pursued (BS/BA, MS, or PhD), research field, acoustical interests, supervisor's name, days free for lunch during the meeting, and abstract number (or title) of any paper(s) being presented at the meeting. The sign-up deadline is 12 days before the start of the ASA meeting, but an earlier sign-up is strongly encouraged. 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/>.

## **SOCIAL EVENTS**

### **BANQUET AND AWARDS CEREMONY**

A banquet will be held on Thursday evening, 1 December. Banquet festivities will start at 6:00 p.m. in the Hilton Hawaiian Village Waikiki Beach Resort with a no-host social hour. The banquet, starting at 7:00 p.m., features a seven-course Chinese dinner. There will be a special presentation on Hawaiian music as part of the entertainment. The awards ceremony will be held during the banquet.

Banquet tickets are available for USD \$40 each (students USD \$25). Tickets are limited and are not included in the registration fee. Those who wish to attend the banquet must purchase their tickets online when they preregister at [AcousticalSociety.org](http://AcousticalSociety.org) or by using the registration form on page 22.

Tickets may be purchased at the meeting subject to availability until 5:00 p.m. on Tuesday, 29 November.

### **SOCIAL HOUR**

A Buffet Social with cash bar will be held on Tuesday evening, 29 November. The Social hour provides 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.

### **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.

### **WOMEN IN ACOUSTICS LUNCHEON**

The Women in Acoustics luncheon will be held on Wednesday, 30 November. The fee is USD \$25 (students USD \$15) for pre-registration by 24 October 2016 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 22.

## TRANSPORTATION AND TRAVEL INFORMATION

### AIR TRANSPORTATION

The Honolulu International Airport (<http://hawaii.gov/hnl>), located on the island of Oahu, is served by 27 international and domestic carriers, three interisland airlines, and four commuter airlines. All major U.S. carriers fly from all major airports in the U.S. to Honolulu. Many Japanese and International carriers have direct flights from Tokyo, Osaka, Sapporo, Nagoya, and Fukuoka to Honolulu.

### GROUND TRANSPORTATION

**Taxi:** *AMPCO EXPRESS* is the managing contractor for the airport's taxi system. Taxis are available at the airport by crossing to the median at Baggage Claim D and G and arranging with a person in a gold-colored shirt with the words TAXI DISPATCHER in black letters on the back. Fare to the hotel is approximately USD \$35-40 one way. For standard-sized baggage there is no charge.

**Hele Transportation Services**, airport shuttle and taxi: Transportation services all day, every day. Reservations: 1-808-782-1722; Email: [hele24hawaii.com](mailto:hele24hawaii.com); Flat rate: 1 to 3 passengers USD \$24 per vehicle, 4 passengers USD \$32, 5 passengers USD \$38, 6 passengers USD \$44. No charge for standard-sized bags.

**Shuttle: Aloha Airport Shuttle**, private car service with mini vans. Reservations: 808-538-3355 or toll free: 855-538-3355, call at least 3 days ahead; email: [alohaairportshuttle.com](mailto:alohaairportshuttle.com) Rate: USD \$30 one way, 1-4 passengers.

**Car Rental:** From Baggage Claim E follow signs to car rental desks for Advantage, Avis, Budget, Hertz, and National. For other rental companies cross to median for rental car shuttle and sites beyond the airport.

### DRIVING/PARKING INFORMATION

**From the Airport.** Obtain a map and instructions from the rental car agency at the airport. Depending on traffic, the drive from the airport to the Hilton Hawaiian Village can vary from 25 min to an hour or more.

**Parking at the Hilton Hawaiian Village.** Parking is available at the Hilton Hawaiian Village for USD \$29/day + tax for self-parking and \$36/day + tax for valet parking.

### MILITARY HOUSING

Military and civilian Department of Defense personal with a valid DOD picture ID card may want to consider the Hale Koa Hotel, directly adjacent to the Hilton Hawaiian Village. For those interested, please check the website: [www.halekoa.com](http://www.halekoa.com) or call 808-955-0555 for more information.

### WEATHER

The weather is generally very pleasant in the latter part of November, but cool weather can occur. For the week of the ASA meeting, temperatures are typically in the mid 70-80's during the day, dropping into the lower 60 – 70's at night. Occasional but brief rain showers can occur suddenly so having an umbrella or rain jacket is advisable.

## **SECURITY**

Attendees should be aware that late-November/December is “big wave” season in Hawaii. While waves of 10 to 30 feet are exhilarating to watch, their reach onto the beach can be treacherous. The State loses a few visitors each year due to lack of respect for the ocean. Swimmers should be aware that stinging jellyfish may reduce the pleasure of a winter swim. Please observe lifeguard warnings and any cautionary notices posted at beaches.

All attendees are cautioned not to carry significant amounts of cash, not to carry handbags on their sides next to a street, and not to leave possessions unattended, particularly at beaches or in vehicles parked at beaches and tourist viewpoints. While people generally are quite safe in their persons, Honolulu is a tourist center, and there is a crime element that targets tourists. It is not impolite to refuse solicitations and police should be called if people become too aggressive. Young children should not be left alone in hotel rooms (see Child Care section below).

## **CHILD CARE**

The Hilton Hawaiian Village Waikiki Beach Resort offers a program of fun and educational activities for children aged between 5 and 12 years old. You can choose from a full-day or half-day program at the following rates: Full Day: 8:00 a.m. – 3:00 p.m.; USD \$85 or USD \$90 with excursion / Half Day: 8:00 a.m. – 12:00 noon or 11:30 a.m. – 3:00 p.m.; USD \$60 or USD \$65 with excursions. Information on the Camp Penguin Club can be found on the website. <http://www.hiltonhawaiianvillage.com/resort-experiences/camp-penguin>.

## **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 17 October 2016 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.

## HOTEL RESERVATION INFORMATION

A block of guest rooms at discounted rates has been reserved for meeting participants at the Hilton Hawaiian Village Waikiki Beach Resort. **Early reservations are strongly recommended.** Special ASA/ASJ meeting rates are not guaranteed after **26 October 2016 12:00 a.m. HST**. You must mention the Acoustical Society of America when making your reservations to obtain the special ASA/ASJ meeting rates.

**Hilton Hawaiian Village Waikiki Beach Resort  
2005 Kalia Road, Honolulu, Hawaii 96815**

Please make your reservation directly with the Hilton Hawaiian Village Waikiki Beach Resort. Online reservations are recommended.

### HOTEL POLICIES

- Check in time: 2:00 p.m./Check out time: 11:00 a.m.
- Early Departure Fee (charged when guest checks out prior to the reserved check out date): USD \$100.00. To avoid this charge inform the hotel before or at check-in if you plan to change your check-out date.
- Family plan: Children under the age of eighteen (18), traveling with their parents and staying in the same room will not be charged when utilizing existing bedding. Rollaway charge: USD \$35.00 per night plus 4.712% tax
- Deposit refunds: Room deposits are refundable up to 72 hours in advance of event date.

### RESERVATION PROCEDURES

#### Online Reservations

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

[https://resweb.passkey.com/Resweb.do?mode=welcome\\_ei\\_new&eventID=14497995](https://resweb.passkey.com/Resweb.do?mode=welcome_ei_new&eventID=14497995)

#### Telephone Reservations

Online reservations are recommended. If you must make reservations by phone, it is strongly recommended that callers dial the hotel directly rather than the toll-free reservations number. When making reservations by phone you must mention the Acoustical Society of America or **group code AUC** to obtain the special ASA/ASJ room rates:

+808-949-4321 (local operator—recommended)

+800-445-8667 (international operator)

### ROOM RATES

All rates are Single or Double.  
Extra person rate for every third and fourth occupant in room is \$50.00 per person and does not include rollaways.

Resort View: USD \$235.00

Ocean View: USD \$275.00

Rainbow Deluxe Ocean View: USD \$305.00

All rooms are subject to local taxes of 13.962%

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

**Reservation cut-off date: 26 October 2016 at 12:00 a.m. HST**

## GENERAL INFORMATION

### 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 11 July 2016. Requests for meeting space, special luncheons, etc., should be made as early as possible to: Jolene Ehl, [asa@acousticalsociety.org](mailto:asa@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.

### ASSISTIVE LISTENING DEVICES

Anyone planning to attend the meeting who will require the use of an assistive listening device, is requested to advise the Society in advance of the meeting: Acoustical Society of America, 1305 Walt Whitman Road, Suite 300, Melville, NY 11747-4300, [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org).

### ACCOMPANYING PERSONS PROGRAM

Accompanying Persons (non-technical participants) are welcome at the Honolulu meeting. The registration fee for accompanying persons is USD \$125 for preregistration by 24 October and USD \$150 thereafter, including on-site registration at the meeting. Accompanying persons may attend the Accompanying Persons Program and the Tuesday evening social hour. They may also attend the Thursday evening banquet by purchasing a banquet ticket. There will be a short program daily lasting for about 1 hour and will include activities such as lei making, hula demonstration and history, and other presentations of general interest. The Rainbow Suite will be used for the accompanying persons program and will be open in the Hilton, from 8:00 a.m. to 11:00 am. Monday to Friday. Breakfast snacks including beverages will be provided in the Rainbow Suite.

Tourism is the major industry of the State of Hawaii and there are many sites to see, activities to participate in and places to shop. Some examples of interesting sites to visit:

**Pacific Aviation Museum's** mission is to develop and maintain an internationally recognized aviation museum on Ford Island that educates young and old alike, honors aviators and their support personnel who defended freedom in the Pacific Region and preserves Pacific aviation history. Pacific Aviation Museum Pearl Harbor is located on historic Ford Island, an active military base that is accessed by shuttle bus from the Pearl Harbor Visitor Center. Shuttles depart every 15 minutes from the Pearl Harbor Visitors Center from 8:00 a.m. to 5:00 p.m. daily. For security reasons, no bags are allowed on the shuttle bus to Ford Island. A bag storage facility, located at the Bowfin Submarine Park shuttle bus stop, can store your belongings for a fee of USD \$3 per bag. <http://www.pacificaviationmuseum.org/buytickets?gclid=CliosqE9MsCFUVsfgodWaUM5w>

**Polynesian Cultural Center** is located on the North Shore of Oahu, about an hour's drive from Waikiki. See re-creation of Pacific Island villages and demonstration of cultural activities. There is an admission charge.

**Iolani Palace** in downtown Honolulu is the only Royal Palace in the United States and was built by Hawaiian King David Kalakaua. The restored palace and its furnishings are on display. Guided tours must be reserved in advance and an admission fee is required. [www.iolanipalace.org](http://www.iolanipalace.org)

**USS Arizona and USS Bowfin** next to Pearl Harbor. A must see for first-time visitors. <http://www.pearl-harbor.com/arizona/arizona.html>

**USS Missouri** on Ford Island, a part of the Pearl Harbor environment, is a restored battleship on which the surrender documents ending WWII were signed. [www.ussmissouri.org](http://www.ussmissouri.org)

**Hanauma Bay Nature Preserve** is the place for you if you ever dreamed of swimming in an aquarium full of fish. This is the favorite and popular spot for snorkeling in the whole state of Hawaii. Admission fee is USD \$7.50/person. 12 yrs. and under free. Shuttle service is available. Closed on Tuesday. Go early and take lots of sun screen. [hanaumabaystatepark.com](http://hanaumabaystatepark.com)

**The Diamond Head** hike in the crater of Diamond Head consists of climbing 99 step stairs plus a spiraling staircase and another set of stairs to a WWI vintage outpost with a view of Waikiki. [www.pacifichistoricparks.org](http://www.pacifichistoricparks.org)

**The Pali lookout** easily reached by automobile with a commanding view of the windward side of Oahu and the beach town of Kailua and Kaneohe. [www.gohawaii.com](http://www.gohawaii.com)

**Ala Moana Shopping Center** is the first shopping center opened in Hawaii and is the most prestigious of all shopping centers in the State. It is located on the town end of Waikiki. [www.alamonacenter.com](http://www.alamonacenter.com)

**Aloha Stadium swap meet** is a place to obtain bargain prices for a wide variety of new items. It is open on Wednesday, Saturday and Sunday, 8:00 a.m. until 3:00 p.m. Admission fee is USD \$1. This is the place to buy all your souvenirs for your family and friends back home. [www.alohastadium.hawaii.gov](http://www.alohastadium.hawaii.gov)

**The Waikiki Aquarium** is the second oldest public aquarium in the United States. Since 1919, the Waikiki Aquarium has been an institution of the University of Hawaii at Manoa. 2777 Kalakaua Ave, Honolulu, HI 96815. 9:00 a.m. to 4:30 p.m. <http://www.waikikiaquarium.org>

**The Bernice Pauahi Bishop Museum**, designated the Hawai'i State Museum of Natural and Cultural History, is a museum of history and science located in the historic Kalihi district of Honolulu. [www.aloha-hawaii.com/oahu/bishop-museum](http://www.aloha-hawaii.com/oahu/bishop-museum).

**The Honolulu Zoo** is a 42-acre zoo located in Queen Kapi'olani Park. It is the only zoo in the United States to be established by grants made by a sovereign monarch, and is built on part of the 300 acre royal Queen Kapi'olani Park. The Honolulu Zoo now features over 1,230 animals in specially designed habitats. [www.honolulu-zoo.org](http://www.honolulu-zoo.org)

## REGISTRATION INFORMATION

The registration desk at the meeting will open on Sunday afternoon, 27 November. Register online at <http://AcousticalSociety.org> or use the form on page 22. **If your registration is not received at the ASA headquarters by 24 October you must register on-site.**

Registration fees are USD as follows:

<u>Category</u>	<u>Preregistration by 24 October</u>	<u>Onsite Registration</u>
ASA/ASJ Members	\$495	\$570
ASA/ASJ Members One-Day Attendance*	\$245	\$295
Nonmembers	\$570	\$645
Nonmembers One-Day Attendance*	\$285	\$360
Nonmember Invited Speakers One-Day Attendance*	Fee waived	Fee waived
Nonmember Invited Speakers—Full Week (Includes one-year ASA membership upon completion of an application)	\$115	\$115
ASA Early Career Associate or Full Members (ASA members within 3 years of their most Recent degrees—proof of date of degree required)	\$245	\$295
ASA/ASJ Student Members (with current Student ID)	\$50	\$100
Nonmember Students (with current Student ID)	\$95	\$135
Nonmember Undergraduate Students (Students must provide proof of undergraduate status, e.g., letter from a professor)	\$0	\$0
ASA Emeritus Members/ASJ Honorary/ASJ Life Members (Emeritus status pre-approved by ASA)	\$125	\$150
Accompanying Persons (Registrants who will not participate in the technical sessions)	\$125	\$150

**Nonmembers** who register for the full meeting week and simultaneously apply for Associate Membership in the Acoustical Society of America will be given a USD \$50 discount off their dues payment for the first year (2017) of membership. Invited speakers who are members of the Acoustical Society of America and the ASJ are expected to pay the registration fee, but **nonmember invited speakers** may register for one-day only without charge. A nonmember invited speaker who pays the full-week registration fee, will be given one free year of membership upon completion of an ASA application form.

**Note: A USD \$25 fee will be charged for cancellations after 24 October.**

### ONLINE REGISTRATION

Online registration is available at <http://AcousticalSociety.org>.

\*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.

**Note for ASJ members who are not members of ASA: At the online registration site, select “I am a new customer. I’d like to join ASA or register for a meeting now.” You must enter your ASJ member number when you register.**



## 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 Honolulu 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

**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.

### 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 2016
- ▶ 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.