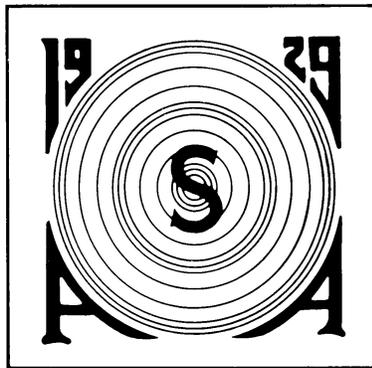


Announcement and Call for Papers

167th MEETING OF THE ACOUSTICAL SOCIETY OF AMERICA



**Rhode Island Convention Center
and
Omni Providence Hotel
Providence, Rhode Island
5–9 May 2014**

Deadline for receipt of abstracts: 16 December 2013

**MEETING ANNOUNCEMENT AND
CALL FOR PAPERS**

The 167th Meeting of the Acoustical Society of America will be held Monday through Friday, 5–9 May 2014 at the Rhode Island Convention Center and the Omni Providence Hotel, Providence, Rhode Island, USA. A block of rooms has been reserved at the Omni Providence Hotel at special ASA rates.

Technical sessions and most other technical and social activities will be held at the Rhode Island Convention Center with some committee meetings held at the Omni Providence Hotel.

Information about the meeting also appears on the ASA webpage at <<http://AcousticalSociety.org>>. See page 17 for registration information.

THE DEADLINE FOR RECEIPT OF ABSTRACTS IS 16 DECEMBER 2013. THIS DEADLINE WILL BE STRICTLY ENFORCED.

Susan E. Fox
Executive Director

**167th MEETING OF THE ACOUSTICAL SOCIETY OF AMERICA
LOCAL COMMITTEE**

General Chair	James H. Miller
Co-Chair	Gopu R. Potty
Technical Program Chair	James F. Lynch
Audio Visual	Andrea M. Simmons and James A. Simmons
Technical Tours	Cathy Ann Clark and David A. Brown
Food/Beverage	Gail Paolino
Signs	John R. Buck
Meeting Administrator	Gail Paolino

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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 May.

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

The special sessions described below will be organized by the Technical Program Committee. 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)

Using Acoustics to Study Fish Distribution and Behavior
(Joint with Signal Processing in Acoustics)
Organized by: Kelly Benoit-Bird, Timothy K. Stanton

DESCRIPTIVE SENTENCES

While acoustical methods have been used to study fish for decades, recent technological developments have refocused efforts to adapt tools to study fish in new ways and to improve our understanding of how fish affect acoustic propagation, scattering, and noise. This session will focus on all aspects of these efforts including new tool developments

ANIMAL BIOACOUSTICS (AB)

Acoustics as a Tool for Population Structure
Organized by: Shannon Rankin, Kate Stafford

Many animals produce stereotyped sounds that appear to be useful in identifying population structure and may be useful in species management. This session will examine the potential as well as the complications and limitations of using animal sounds as a tool for identifying population structure

Communicating the Science of Underwater Sound
(Joint with Education in Acoustics)
Organized by: Kathleen J. Vigness-Raposa

Forum for educators at university level; graduate students. Techniques, resources, and suggestions for improving education of underwater sound

Comparative Perspectives on the Cocktail Party Problem
(Joint with Psychological and Physiological Acoustics)
Organized by: Micheal L. Dent, Mark Bee

Research on how animals solve biological analogues of the human cocktail party problem

Dynamics of Biosonar: Time-Dependent Adaptations in
Transmission, Reception, and Representation in Echolocating
Animals
(Joint with Signal Processing in Acoustics)
Organized by: Laura Kloepper

How do the properties of broadcast waveforms, reception sensitivity, directional beaming, and auditory echo representation change rapidly, depending upon information in previous echoes and ongoing changes in the biosonar scene?

ARCHITECTURAL ACOUSTICS (AA)

Exploring 2014 Sound and Vibration Guidelines and Case Studies
for Healthcare Facilities
Organized by: Kenric Van Wyk, Daniel Horan,
Edward L. Logsdon

New FGI Guidelines for Design and Construction of Health Care Facilities will be published in 2014, along with its updated reference document, Sound and Vibration Guidelines. Case studies of facilities built to the previous (2010) Guidelines as well as outline changes to the acoustical criteria within the latest editions will be presented.

Green Building Acoustics Design and Challenges
Organized by: Lucky S. J. Tsaih, Gary W. Siebein

Acoustic design challenges, methods and case studies for integrating and implementing sustainable architectural design concepts such as daylighting and natural ventilation into a green building, and conducting acoustical analysis to determine compliance with LEED, DODEA, ANSI, and other sustainable design criteria.

ARCHITECTURAL ACOUSTICS (AA) cont

J. Christopher Jaffe - His Life in Acoustics
Organized by: William J. Cavanaugh, Alex U. Case
K. Anthony Hoover

Psychoacoustics in Rooms
(Joint with Psychological and Physiological Acoustics)
Organized by: Philip W. Robinson, Frederick J. Gallun

Soundscape Methods and Case Studies in Architectural Projects
(Joint with Noise)
Organized by: Bennett C. Brooks, Juergen Bauer

Uncertainty in Describing Room Acoustics Properties
Organized by: Lily M. Wang, Ingo Witew

BIOMEDICAL ACOUSTICS (BA)

Biomedical Applications of Low Intensity Ultrasound
Organized by: Thomas L. Szabo

Brain Therapy and Imaging
Organized by: Yun Jing, Gregory Clement

Breast Ultrasound
Organized by: Koen van Dongen

ENGINEERING ACOUSTICS (EA)

Session in Honor of Kim Benjamin
Organized by: Thomas R. Howarth

Session in Honor of Stanley L. Ehrlich
Organized by: David A. Brown, Kenneth G. Foote

EDUCATION IN ACOUSTICS (ED)

Hands-On Acoustics Demonstrations for Middle- and High-School
Students
Organized by: Andrew C. Morrison, David T. Bradley

Listen Up and Get Involved
(Joint with Women in Acoustics)
Organized by: Marcia J. Isakson, Tracianne B. Neilsen

Tools for Teaching Advanced Acoustics
(Joint with Physical Acoustics)
Organized by: David T. Bradley, Preston S. Wilson

INTERDISCIPLINARY (ID)

Future of Acoustics
Organized by: Brigitte Schulte-Fortkamp, Michael J. Buckingham

Introduction to Technical Committee Research and Activities:
Especially for Students and First-Time Meeting Attendees
(Joint with Student Council)
Organized by: Whitney L. Coyle, Matthew D. Shaw

DESCRIPTIVE SENTENCES

Honoring the legendary talent, humor, and artistry of J. Christopher Jaffe

Auditory perception in rooms and its relation to anechoic or headphone based measures. Topics include: effects of reflections and reverberation on speech transmission, localization and spatial separation, frequency and pitch perception, loudness, and distance perception, for normal auditory system, and listening with hearing devices

Applications of soundscape techniques to the realization of highly perceived quality sonic environments in architectural projects

Covering uncertainty in describing room acoustic properties, including but not limited to measurements of energy decay curves, objective metrics, and perceptual metrics

Diverse low intensity ultrasound applications such as bone healing, neurostimulation, and tactile interfaces

Recent theoretical and experimental efforts that develop methodologies for brain therapy and imaging

Application of ultrasound for breast cancer detection with a focus on system design and imaging algorithms

Honoring the career of Kim Benjamin

Honoring the career of Stanley Ehrlich

Acoustics demonstrations for middle-school students. Any acousticians interested in participating should contact Andrew Morrison at amorison@jjc.edu

Acoustic demonstrations for middle- and high-school aged Girl Scouts

Animations, demonstrations, and other educational approaches for teaching acoustics at the advanced undergraduate and graduate levels

The future of acoustics is a challenge for internationality and interdisciplinarity in science, advanced techniques, and applications regarding ecology and economy

The purpose of this session is to give newcomers a brief overview of research performed in each of the technical committees. The session is composed of 13 invited talks (10 minutes each), one from each technical committee

MUSICAL ACOUSTICS (MU)

Acoustics of the Organ
Organized by: Uwe J. Hansen

Automatic Musical Accompaniment Systems
Organized by: James W. Beauchamp

Where are They Now? Past Student Paper Winners Report
Organized by: James P. Cottingham

NOISE (NS)

Acoustics During Construction
(Joint with Architectural Acoustics)
Organized by: Norman H. Philipp, K. Anthony Hoover

Community Noise
(Joint with ASA Committee on Standards)
Organized by: Robert D. Hellweg, Jr., Bennett C. Brooks

Out on a Limb: Unconventional Approaches to Noise Control
Organized by: Eric L. Reuter

Session in Honor of Kenneth Eldred and Harvey Hubbard
Organized by: Louis C. Sutherland, Paul D. Schomer

Soundscapes: Decisions on Measurement Procedures
(Joint with Architectural Acoustics)
Organized by: Brigitte Schulte-Fortkamp, Klaus Genuit

Wind Turbine Noise
(Joint with ASA Committee on Standards)
Organized by: Nancy S. Timmerman, Paul D. Schomer

PHYSICAL ACOUSTICS (PA)

Acoustical Methods and Sensors for Challenging Environments
Organized by: Cristian Pantea, Dipen N. Sinha

Beyond Basic Crystals: Viscoelastic and Piezoelectric Materials
Organized by: Julian D. Maynard, Josh Gladden

Demonstration of Physical Acoustics
(Joint with Education in Acoustics)
Organized by: Murray S. Korman

PSYCHOLOGICAL & PHYSIOLOGICAL ACOUSTICS (PP)

Cambridge Contributions to Auditory Science: The
Moore-Patterson Legacy
(Joint with Speech Communication)
Organized by: Andrew J. Oxenham, Christopher J. Plack,
Robert P. Carlyon, Michael A. Akeroyd

Diagnostics of the Pathological Middle Ear by Wideband Acoustic
Impedance/Reflectance Measures
Organized by: Jont B. Allen

Role of Medial Olivocochlear Efferents in Auditory Function
Organized by: Magdalena Wojtczak, Enrique A. Lopez-Poveda

DESCRIPTIVE SENTENCES

All aspects of tone production, tone quality, and instrument maintenance for pipe organs and electronic instruments

Computer or special hardware solutions for the automatic accompaniment problem with an emphasis on real-time demonstrations

Winners of the best student paper awards in musical acoustics during the last decade report on their current activities

Noise mitigation during construction and issues arising during construction administration

New developments in community noise standards and control

Unconventional, and sometimes risky, solutions to noise control problems that did or did not work

Honoring the work of Kenneth Eldred and Harvey Hubbard

Evaluation of the soundscape-standard through current research

Current state-of-the-art on wind turbine noise, with a focus on activities in New England

Measurements and sensor development in diverse industrial and non-industrial settings under difficult and challenging conditions, such as high pressure, high temperature, corrosives, radiation and more

Properties of viscoelasticity and piezoelectricity and their measurements

Presenters will demonstrate physical acoustics with apparatus. After the demonstration, audience will be able to interact with the apparatus as appropriate

Honoring the contributions of Brian Moore and Roy Patterson to Psychological and Physiological Acoustics

Recent findings in applying wideband reflectance/impedance methods to the diagnosis of middle ear pathologies, by quantifying the tympanic membrane compliance. Focus will be on reflectance as a viable alternative to the clinically used technique of tympanometry

Understanding the effect of efferent cochlear control on auditory function

PSYCHOLOGICAL & PHYSIOLOGICAL ACOUSTICS (PP) cont

Scientific Catalyst, Collaborator, and Gadfly: Honoring the Contributions of Tino (Constantine) Trahiotis to the Understanding of Binaural Auditory Processing
Organized by: Leslie R. Bernstein, Richard M. Stern, H. Steven Colburn

Temporal Processing, Compression, and Cochlear Implants: Session in Honor of Sid P. Bacon
Organized by: Neal F. Viemeister

STRUCTURAL ACOUSTICS AND VIBRATION (SA)

Acoustic Metamaterials
(Joint with Physical Acoustics, Engineering Acoustics and Noise)
Organized by: Christina Naify, Michael R. Haberman

Acoustics of Cylindrical Shells
(Joint with Physical Acoustics)
Organized by: Sabih I. Hayek

Acoustics of Sports
(Joint with Noise and Architectural Acoustics)
Organized by: Matthew D. Shaw

Environmental Vibration
(Joint with Noise)
Organized by: David C. Waddington, Calum Sharp

Noise and Vibration Associated with Wind Turbine Designs
(Joint with Noise)
Organized by: Kuangcheng Wu

Session in Honor of Murray Strasberg
(Joint with Underwater Acoustics and Physical Acoustics)
Organized by: David Feit

Undersea Vehicle Noise
(Joint with Underwater Acoustics)
Organized by: Robert M. Koch

SPEECH COMMUNICATION (SC)

Determinants of Speech Perception: A Session in Honor of Joanne L. Miller
Organized by: Rachel M. Theodore, Robert E. Remez

SIGNAL PROCESSING IN ACOUSTICS (SP)

Array Signal Processing
(Joint with Underwater Acoustics)
Organized by: Kainan T. Wong

Intelligent Feature Selection Methods for Machine Learning Problems in Acoustics
Organized by: Eric A. Dieckman, Ning Xiang

DESCRIPTIVE SENTENCES

For more than four decades, Tino Trahiotis has been at the forefront of research in binaural hearing. His impact upon the field and his creativity are, perhaps, best known and appreciated in the context of his successful collaborations and interactions with numerous scientists worldwide who have studied binaural auditory function

Sid Bacon made many contributions to the areas of auditory perception listed in the title. Invited presenters will describe their recent research in these areas and its connection with Bacon's work.

Theoretical and experimental investigation of manipulation of sound waves and vibrations using acoustic metamaterials

Analysis and experimental research in the structural vibrations and radiated and scattered acoustic fields from these shells

Vibration in sports equipment, noise and vibration in sports arenas, and sound reinforcement

Evaluation and assessment of environmental vibration including human response

Investigations of noise and vibration associated with wind turbine design on land or offshore

Discussions of the contributions of Murray Strasberg to the fields of structural acoustics and vibration, underwater acoustics, and physical acoustics

Experimental measurements and model predictions of self and/or radiated structural acoustic noise in undersea vehicle systems including manned submarines and all manner of unmanned undersea vehicles (UUV's) and autonomous unmanned vehicles (AUV's)

Honoring the career and accomplishments of Joanne L. Miller, an esteemed speech perception researcher. The influences of her work will be highlighted, focusing on the role of phonetic category structure in models of speech perception, developmental and clinical populations, audio-visual speech perception, and the neural architecture of language.

By deploying an array of acoustic sensors at separate locations, an acoustic wavefield can be sampled over space, in addition to overtime and over frequency, thereby offering an additional dimension for signal processing to extract/filter information embedded in the wavefield

A survey of current applications of machine learning algorithms to solve problems in acoustics, with a focus on feature extraction and feature selection techniques to create information-dense feature vectors for classification

SIGNAL PROCESSING IN ACOUSTICS (SP) cont

Session in Honor of William M. Carey
Organized by: Edmund J. Sullivan, James F. Lynch

DESCRIPTIVE SENTENCES

Honoring the career and accomplishments of the late William M. Carey in the area of Ocean Acoustics, specifically: Signal Processing, Bubbles, Ambient Noise, and Bottom Interacting Acoustics

UNDERWATER ACOUSTICS (UW)

Acoustic Vector Sensor Measurements: Basic Properties of the Intensity Vector Field and Applications
Organized by: David Dall'Osto, Peter H. Dahl

This session will focus on, but is not limited to, the analysis of vector sensor measurements made underwater, properties of the underwater acoustic vector field, including acoustic intensity, energy-flux streamlines and acoustic particle motion, and applications of vector sensors

OTHER TECHNICAL EVENTS AND INFORMATION

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 Society 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 Committee will cover the fields of Engineering Acoustics, Psychological and Physiological Acoustics and Underwater Acoustics.

VERN O. KNUDSEN DISTINGUISHED LECTURE

The Technical Committee on Architectural Acoustics is organizing a Vern O. Knudsen Distinguished Lecture. Details about the topic and speaker will be announced later.

EXHIBIT

An instrument and equipment exhibit conveniently located near the registration area and meeting rooms, will open at the Rhode Island Convention Center on Monday, 5 May, and will close on Wednesday afternoon, 7 May. 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, American Institute of Physics, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502, Tel: 516-576-2433; Fax: 516-576-2481; E-mail: rfinnegan@aip.org.

STUDENT DESIGN COMPETITION

The 2014 Student Design Competition will be displayed and judged at the Providence meeting. This competition is intended to encourage students in the disciplines of architecture, engineering, physics, and other curriculums that involve building design and/or acoustics to express their knowledge of architectural acoustics and noise control in the design of a facility in which acoustical considerations are of significant importance. The competition will be a poster session. Entries may be submitted by individual students or by teams of a maximum of three students. Undergraduate and graduate students from all countries are encouraged to participate. Students must be enrolled in either the fall term of 2013 or the

spring term of 2014 (or equivalent if a particular school does not operate on a spring and fall term basis) to be eligible for the competition. It is not necessary to attend the Providence meeting to participate in the competition, although attending the meeting is encouraged.

All competition entries will respond to a design scenario that will be announced by approximately 1 December 2013. Information about the design scenario and registration for the competition will be available on the website of the Newman Fund, www.newmanfund.org. Additional information may be obtained by contacting Norman Philipp <nphilipp@pittstate.edu>.

The Student Design Competition is sponsored by the ASA Technical Committee on Architectural Acoustics, with support from the Wenger Foundation, the Robert Bradford Newman Student Award Fund, and the National Council of Acoustical Consultants.

TECHNICAL TOURS

A tour of the acoustic test facilities at the Naval Undersea Warfare Center (NUWC) in Newport, Rhode Island will be conducted, Monday, 5 May 2014. A bus will leave from the main lobby near the registration desk of the Omni Providence Hotel at 1:00 p.m. Expected return time is 4:00 p.m. A fee of USD\$35 will be charged to cover transportation. A NUWC visitor request form will be forwarded to you and MUST be on file prior to the tour. Non-US citizens should register for the tour early to allow additional time for processing their visit request. Register online at <<http://AcousticalSociety.org>> or use the form on page 18.

A Performance and Presentation on The Organ at The Cathedral of Saints Peter and Paul, Providence, Rhode Island has been scheduled for Wednesday, 7 May 2014 at 7:00 p.m. A delightful performance and history presentation on the magnificent church organ will be provided by resident organist Phillip Faraone. The cathedral organ is a four chamber manual mechanical action Casavant, Opus 3145 designed by Larry Phelps. It is the largest mechanical action organ in North America complete with 6,616 pipes, 126 ranks and 73 stops. Many prominent organists have performed on the instrument including Dame Gillian Weir and Stephen Hamilton. The Cathedral is a leisurely 10-minute walk from the Omni Providence Hotel and Rhode Island Convention Center <<http://www.cathedralprovidence.org/organ.html>>. Cost is a USD \$10 donation. Register online at <<http://AcousticalSociety.org>> or use the form on page 18.

PROCEEDINGS OF MEETINGS ON ACOUSTICS (POMA)

The upcoming meeting of the Acoustical Society of America will have a published proceedings, and submission is optional. The proceedings will be a separate volume of the online journal, "Proceedings of Meetings on Acoustics" (POMA). This is an open access journal, so that its articles are available in pdf format without charge to anyone in the world for downloading. Authors who are scheduled to present papers at the meeting are encouraged to prepare a suitable version in pdf format that will appear in POMA. The POMA online site for submission of papers from the meeting will be opened about the same time when authors are notified that their papers have been accepted for presentation. It is not necessary to wait until after the meeting to submit one's paper to POMA. Further information regarding POMA and published papers from previous meetings can be found online at <<http://scitation.aip.org/content/asa>>.

ITINERARY PLANNER AND MOBILE APP

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

MEETING PROGRAM

A complete meeting program will be mailed as Part 2 of the April issue of JASA. Abstracts will be available on the ASA Home Page <<http://AcousticalSociety.org>> in February.

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 19).

ABSTRACT SUBMISSION GUIDELINES

All abstracts must be submitted online by 16 December 2013. This deadline will be strictly enforced. **Abstracts submitted via postal mail, fax, or e-mail will not be accepted.**

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 February.

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 Society 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 pages 20 and 21.

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., overhead transparency projectors, 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. If your poster needs to be located adjacent to a power outlet and/or you require the use of a table, please request these items when you submit your abstract.

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 CD ROM or USB drive to load onto the provided computer and should arrive at the meeting rooms at least 30 minutes before the start of their sessions. 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 CD ROM or 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 insure that their sound files are also saved on the CD ROM or 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 SOUND REPRODUCTION: SCIENCE IN THE SERVICE OF ART

A tutorial presentation on “Sound Reproduction: Science in the Service of Art” will be given by Floyd E. Toole, formerly of the National Research Council Canada and Harman International, on Monday, 5 May 2014 at 7:00 p.m.

ABSTRACT

The vast majority of music we enjoy is generated by loudspeakers of differing pedigree, and propagated to our ears through spaces that can mostly be described as acoustically arbitrary. In spite of the obvious huge variations, humans have managed to not only enjoy reproduced music, but sometimes even to exhibit enthusiasm for it. Common acoustical measurements confirm the variations. Are they wrong? In double-blind subjective evaluations of loudspeakers in rooms, listeners exhibit strong and remarkably consistent opinions about the sound quality from loudspeakers. The challenge has been to identify those technical measurements that correlate with the subjective ratings. What is it that these listeners are responding to? A clue: it is not in the specification sheets of most loudspeakers, nor in a secret formula for room design. This tutorial will examine the acoustical properties of loudspeakers (the sound source), rooms (the acoustical conveyance) and listeners (the powerfully perceptive, and adaptable receptor). In some respects, our problems began when we started to make certain kinds of simplistic measurements. Two ears and a brain do not respond to complex sound fields the way an omnidirectional microphone and analyzer do. What our eyes see in these measurements is not always well-matched to what our ears hear.

LECTURE NOTES

Lecture notes will be available at the meeting in limited supply. Those who register by 7 April 2014 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 7 April 2014 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 7 April 2014 and USD\$12 thereafter, including on-site registration at the meeting. Register online at <<http://AcousticalSociety.org>> or use the registration form on page 18 to register for the Tutorial Lecture.

SHORT COURSE ON RECENT TECHNOLOGIES FOR HEARING ASSISTANCE

INTRODUCTION

The first commercial hearing aid with completely digital signal processing (DSP) was introduced in 1996. Since then, the processing power of such devices and the complexity of the employed signal processing algorithms have steadily increased. Today, all major brands offer a range of fully digital devices, and hearing aids with analogue processing of signals have become rare. DSP allows for a variety of novel processing schemes for improved rehabilitation of hearing impairment that cannot be realized using analogue technology, including feedback control and management, automatic classification of the acoustic environment, multi-channel amplitude compression, speech enhancement and single-channel and multi-channel noise reduction. Recent Wireless Body Area Network (WBAN) technology allows for the transmission of audio and control signals across hearing devices attached to both ears, enabling true binaural signal processing. Thus, hearing aid technology has evolved rapidly in the last decades and is still a very active field of research and development. Although acoustic communication has improved by recent DSP, there is room for improvement, particularly in challenging acoustic conditions characterized by excessive noise and reverberation. Techniques such as "Computational Auditory Scene Analysis" (CASA) might help in closing the gap further.

OBJECTIVE

To provide a comprehensive overview of the current state and the perspectives of digital signal processing in hearing devices. In particular processing principles will be introduced, and experimental performance data will be shown. Major challenges of improving acoustic communication in challenging acoustic conditions will be identified. CASA techniques for tackling these challenges will be discussed.

INSTRUCTORS

The short course will be taught by a team of instructors with expertise in various aspects of hearing research and acoustic signal processing. Birger Kollmeier, PhD, MD, is a professor of Medical Physics at Oldenburg University in Germany and chairman of the German Cluster of Excellence "Hearing4all." He has been engaged in research in audiology, psychoacoustics, speech, and audio processing for more than 30 years and has an excellent publication record in these fields. He is a fellow of the Acoustical Society of America and has received numerous prizes and awards. Volker Hohmann, PhD, is a professor of Applied Physics at Oldenburg University in Germany and is an internationally renowned expert in auditory modeling and signal processing for hearing devices. Both instructors are involved in building up and directing several research groups for fundamental, applied and translational research in hearing technology, including the Center for Hearing Research at the University of Oldenburg, Hörzentrum Oldenburg GmbH, HörTech gGmbH, and the Fraunhofer project group for hearing, speech and audio technology. Dr. Kollmeier and Dr. Hohmann received the German President's Award for Technology and Innovation in 2012 for their project "Binaural Hearing Aids - Stereo Hearing for Everyone", together with Dr. T. Niederdränk from Siemens.

PROGRAM

Sunday, 4 May 2014, 1:00 p.m. to 5:00 p.m.
Monday, 5 May 2014, 8:30 a.m. to 12:30 p.m.

TOPICS

1. Physiological basis of hearing impairment
2. Effect of hearing impairment on acoustic communication
3. Auditory models of hearing impairment
4. Sound field properties of typical acoustic communication conditions
 - a. Effect of sound source superposition
 - b. Effect of reverberation
 - c. Interaural differences
5. Principles of signal processing for hearing devices
 - a. Feedback control and management
 - b. Automatic classification of the acoustic environment
6. Multi-channel amplitude compression
7. Speech enhancement
8. Single-channel noise reduction
9. Multi-channel noise reduction / spatial processing
10. Binaural processing
11. Experimental evaluation of DSP in hearing aids – benefit in challenging acoustic conditions
12. Models of "Auditory Scene Analysis" and possible applications to DSP in hearing devices
13. Summary

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 7 April 2014 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 7 April 2014. Full refunds will be made for cancellations prior to 7 April 2014. Any cancellations after 7 April 2014 will be charged a USD\$25 processing fee. Register online at <<http://AcousticalSociety.org>> or use the form on page 18. If you miss the preregistration deadline and are interested in attending the course, please send an email to asa@aip.org.

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. Students presenting papers who propose to travel in groups using economical ground transportation will be given first priority to receive subsidies, although these conditions are not mandatory. 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 7 April 2014 to: Jolene Ehl, jehl@aip.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; if traveling by auto; whether you will travel alone or with other students; names of those traveling with you; and approximate cost of transportation.

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 Providence 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 Providence meeting, are not currently students, and have not previously received the award. Each award will be of the order of USD \$450 with two 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 Lauren Ronsse <ronsse.lauren@gmail.com>. Deadline for receipt of applications is 24 March 2014.

STUDENTS MEET MEMBERS FOR LUNCH

The ASA Education Committee arranges one-on-one lunch meetings between students and ASA members. The purpose is to make it easier for students to meet and interact with members at Acoustical Society meetings. Each lunch pairing is arranged separately. Students who are interested should contact Dr. David Blackstock, University of Texas at Austin, by email <dtb@austin.utexas.edu>. Please provide your name, university, department, degree you are seeking (BS, MS, or PhD), research field, acoustical interests, your supervisor's name, days you are free for lunch, and abstract number (or title) of any paper(s) you are presenting. The sign-up deadline is 12 days before the start of the Meeting, but an earlier sign-up is strongly encouraged. Each participant pays for his/her own meal.

PLENARY SESSION, AWARDS CEREMONY, SOCIETY LUNCHEON AND LECTURE, JAM SESSION AND SOCIAL EVENTS

Buffet socials with cash bar will be held on Tuesday and Thursday, 6 and 8 May.

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

A Society Luncheon and Lecture sponsored by the College of Fellows will be held Thursday, 8 May, at 12:00 noon. This luncheon is open to all attendees and their guests. Tom Austin, Principal Engineer, Ocean Systems Laboratory, WHOI, will be our Society Luncheon Speaker. He will present results from field experiments in which a REMUS-100 autonomous underwater vehicle (AUV) tracked multiple tagged sharks in the open ocean over periods of several hours. The Oceanographic Systems Laboratory (OSL) developed an algorithm that allows the vehicle to use information from an active transponder to provide a three dimensional track of the animal with high spatial and high temporal resolution. Field studies were conducted in the spring and summer of 2012. Two basking sharks and four white sharks were tagged and tracked for 1-3 hours. We present the engineering developments required to create the system as well as some very exciting video footage that was featured on the Discovery Channel's "Shark Week". Register online at <<http://AcousticalSociety.org>> or use the form on page 18. Tickets cost USD\$30.00 each. 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, 7 May. The fee is USD\$25 (students USD\$15) for pre-registration by 7 April 2014 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 18.

TRANSPORTATION AND TRAVEL INFORMATION

AIR TRANSPORTATION

Located just 15 minutes from downtown Providence, Warwick's T.F. Green Airport (PVD) was recently named one of the top five airports in the US by Travel + Leisure magazine. Just off Exit 13 on Interstate Route 95, Green Airport is accessible to Boston, Cape Cod and Southeastern New England, and is fast-becoming a popular alternative to Boston's Logan Airport. For flight information visit, <<http://www.pvdairport.com/>>.

GROUND TRANSPORTATION

Transportation from the T. F. Green Airport to The Omni Providence Hotel and downtown Providence area hotels:

Information. The Information Booth, located at the sailboat in the airport main common area, serves many needs of the traveler to T. F. Green Airport, including maps, brochures, courtesy paging, parking and directions to locations in the local area. The staff can also provide general information on what is at T. F. Green. The information booth is staffed during normal business hours by Johnson and Wales hospitality students.

Rail Service. Providence is located on Amtrak's Northeast Corridor between Washington DC/New York City and Boston. High speed Acela Express train service transports passengers from New York City to Providence in about two and a half hours. The Massachusetts Bay Transit Authority (MBTA) runs low cost commuter trains to Providence from Boston and other points in Massachusetts. Amtrak's Providence railway station is within walking distance of The Omni Providence Hotel and The Rhode Island Convention Center. Amtrak's contact information; 1-800-USA-RAIL or visit, <www.amtrak.com>.

Major car rental companies. Nearly every major car rental company is represented at T.F. Green. Rental car counters are located in the Interlink building directly connected to the airport via indoor skybridge.

Airport Shuttle shared-ride service, The shuttle departs T. F. Green Airport every hour on the hour from 5:00 a.m. to 7:00 p.m., seven days a week. It arrives and departs the Omni Providence Hotel at 17 minutes past every hour. The fee for this service is USD\$11.77 per person one way or USD\$23.54 round trip. **Please Note:** Roundtrip tickets are available for purchase inside the airport only. These tickets will guarantee a return seat. Drivers can only accept cash. At the counter, inside the airport, near baggage claims, all major credit cards are accepted. Phone 401-737-2868 or visit, <www.airporttaxi.com for more information>.

Taxicabs and limousines. Taxis are available outside the terminal at T. F. Green Airport. Providence is approximately 10 minutes from the airport, with fares averaging USD\$35.00 one way. All fares are metered. Please phone 401-737-2868 for more information.

DRIVING/PARKING INFORMATION

Rhode Island Convention Center, One Sabin Street, Providence, RI 02903

From the North. Take 95S to exit 22ABC. Merge onto 22A (Memorial Blvd.) toward Downtown. At the second light turn right onto Cookson Place. Take your next right onto West Exchange Street. Stay straight and the RI Convention Center will be directly in front of you.

From the South. Take 95N to exit 22ABC. Merge onto 22A (Memorial Blvd.) toward Downtown. Turn right onto Francis Street. At the light take a right onto West Exchange Street. The RI Convention Center will be directly in front of you.

Parking at the Rhode Island Convention Center. Self-Parking is available at the Rhode Island Convention Center Garage. The full day and overnight rate is USD\$18.00. The RI Convention Center garage and the Omni Providence Hotel are connected via indoor walkway. <<http://www.riconvention.com/>>

Omni Providence Hotel, One West Exchange Street, Providence, Rhode Island 02903

From 95 North. Take Exit 22A. At the first set of lights take a right onto Francis Street, at the next set of lights make a right turn onto West Exchange Street. The hotel will be located on your right.

From 95 South. Take Exit 22A, at the top of the exit ramp stay in your left lane towards Downtown Providence. At the first set of lights go straight onto Memorial Boulevard. At the next set of lights make a right turn onto Exchange Street. At the stop sign make a right turn onto Exchange Terrace. At the next set of lights go straight onto West Exchange Street. The hotel will be located on your right.

From 295 North & South. Take Exit 6 (Route 6), Follow Route 6 East to Route 10 North. Follow Route 10 to the end and bear right into Downtown Providence. At the first set of lights go straight onto Memorial Boulevard. At the next set of lights make a right turn onto Exchange Street. At the stop sign make a right turn onto Exchange Terrace. At the next set of lights go straight onto West Exchange Street. The hotel will be located on your right.

Parking at the Omni Providence Hotel. The hotel valet overnight and full day parking rate is USD\$28.00. Self parking is available at the Rhode Island Convention Center Garage next to hotel. The self-parking rate is USD\$18.00 for overnight or full day. The Rhode Island Convention Center garage and the Omni Providence Hotel are connected via indoor walkway.

WEATHER

April showers will have brought a bloom to May flowers and a definite Spring feel in the air. Temperatures are typically in the mid 60s during the day. Dropping to the cool low 50s at night.

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 24 March 2014 to the Acoustical Society of America, by e-mail, asa@aip.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 Omni Providence Hotel. **Early reservations are strongly recommended.** Note that the special ASA meeting rates are not guaranteed after **2 April 2014**. You must mention the Acoustical Society of America when making your reservations to obtain the special ASA meeting rates.

The Omni Providence Hotel is connected to the Rhode Island Convention Center via indoor walkway.

OMNI PROVIDENCE HOTEL

Please make your reservation directly with the Omni Providence Hotel. When making your reservation, you must mention the Acoustical Society of America or group code; 050214ACOUSTICA to obtain the special ASA rates. The hotel address and phone numbers are as follows, but please make reservations as described below.

Omni Providence Hotel
One West Exchange Street
Providence, Rhode Island 02903
Phone: (401) 598-8000
Fax: (401) 598-8200
Web: <http://www.omnihotels.com/FindAHotel/Providence.aspx>

RESERVATION PROCEDURES

Online Reservations

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

<http://www.omnihotels.com/FindAHotel/Providence/MeetingFacilities/167thAnnualMeetingofAcousticalSocietyofAmerica5.aspx>

Telephone Reservations

1-888-444-OMNI (6664)

ROOM RATES

Single or Double: USD \$165.00

All rooms are subject to 13% state and local occupancy taxes

Reservation cut-off date: 2 April 2014 at 5:00 p.m. EST

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 16 December 2013. Requests for meeting space, special luncheons, etc., should be made as early as possible to: Gopu Potty, potty@egr.uri.edu. Please include any audio visual needs with your request. 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, Suite 1NO1, 2 Huntington Quadrangle, Melville, NY 11747-4502, asa@aip.org.

ACCOMPANYING PERSONS PROGRAM

Spouses and other visitors are welcome at the Providence meeting. The registration fee is USD\$125 for pre-registration by 7 April and USD\$150 at the meeting.

A hospitality room for accompanying persons will be open at the Omni Providence Hotel from 8:00 to 10:00 a.m., Monday through Thursday. In an attempt to compile an exciting program we will be polling pre-registered persons regarding interests. Please check for updates at: <http://AcousticalSociety.org/meetings.html>.

Providence Area information:

Water Fire is a recurring spring evening event in which organizers place dozens of flaming braziers along the length of the river and broadcast dreamy instrumental music.

The city's shopping offerings include the Providence Place Mall in the heart of downtown; the older, ornate Arcade between Westminster and Weybosset streets; and many small, personal shops scattered among the neighborhoods.

One – but not the only – hot spot for good dining is Federal Hill, the historic Italian neighborhood, as well as many fine restaurants downtown. Nightlife with live music in many small-to-medium-size venues around town is plentiful.

Among the several fine small museums are the Providence Children's Museum, the Museum of Art at Rhode Island School of Design, and the Culinary Arts Museum at Johnson and Wales University.

As the home of the Trinity Repertory Company, Providence Performing Arts Center, Brown University, and the Rhode Island School of Design, the city hosts a fine selection of visual and performing arts, from Broadway shows to student art exhibits and everything in between. People who love architecture should not miss taking a stroll around Rhode Island School of Design along North Main Street and then up toward historic Benefit Street and finally to College Hill, home of Brown University. The walk should meander along Benefit and Wickenden streets for a good tour of lovely Colonial, Federal, Greek Revival, and Victorian buildings. Other notable buildings are the lavish Rhode Island State House – an architectural masterpiece – and the eighteenth-century John Brown House Museum. Moving outside of the immediate downtown, visitors can find the Victorian-era Roger Williams Park, with its zoo, carousel, vintage casino building, lakes, and Museum of Natural History and Planetarium.

REGISTRATION INFORMATION

The registration desk at the meeting will open on Monday, 5 May, at the Rhode Island Convention Center. Register online at <<http://AcousticalSociety.org>> or use the form on page 18. **If your registration is not received at the ASA headquarters by 7 April you must register on-site.**

Registration fees are USD as follows:

<u>Category</u>	<u>Preregistration by 7 April</u>	<u>Onsite Registration</u>
Acoustical Society Members	\$470	\$545
Acoustical Society Members One-Day Attendance*	\$235	\$310
Nonmembers	\$570	\$645
Nonmembers One-Day Attendance*	\$285	\$360
Nonmember Invited Speakers One-Day Attendance*	Fee waived	Fee waived
Nonmember Invited Speakers (Includes one-year ASA membership upon completion of an application)	\$110	\$110
ASA Early Career Associate or Full Members (For ASA members who transferred from ASA student member status in 2012, 2013, or 2014)	\$275	\$350
ASA Student Members (with current ID cards)	\$50	\$90
Nonmember Students (with current ID cards)	\$90	\$130
Nonmember Undergraduate Students (with current ID cards indicating undergraduate status)	\$75	\$115
ASA Emeritus 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 (2014) of membership. Invited speakers who are members of the Acoustical Society of America 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 \$25 FEE WILL BE CHARGED FOR CANCELLATIONS AFTER 7 APRIL.

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.

Please type or print clearly

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 or Postal Code

Country

Telephone Number Fax Number

E-mail Address

Name of Accompanying Guest (for badge)

Mail form with payment to:
Acoustical Society of America
Suite 1NO1
2 Huntington Quadrangle
Melville, NY 11747-4502
FAX (payment by credit card only): 516-576-2377

If your registration is not received at the ASA headquarters by 7 April 2014 you must register on-site. Preregistrations received after 7 April 2014 will not be processed.

	up to 7 April Onsite		
ASA Members	\$470	\$545	\$ _____
ASA Members One-Day Circle Day: M T W T F	\$235	\$310	\$ _____
Nonmembers	\$570	\$645	\$ _____
Nonmembers One-Day Circle Day: M T W T F	\$285	\$360	\$ _____
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 upon completion of an ASA application)	\$110	\$110	\$ _____
ASA Early Career Associate (Associate or Full Members who transferred from ASA Student member status in 2012, 2013, 2014)	\$275	\$350	\$ _____
ASA Student Members (attach student ID)	\$50	\$90	\$ _____
Nonmember Students (attach student ID)	\$90	\$130	\$ _____
Nonmember Undergraduate Students (attach student ID showing Undergraduate status)	\$75	\$115	\$ _____
ASA Emeritus Members (pre-approved by ASA)	\$125	\$150	\$ _____
Accompanying Persons (Registrants who will not attend or participate in technical sessions)	\$125	\$150	\$ _____

OPTIONS

Short Course Students	\$125	\$125	
Nonstudents	\$250	\$300	\$ _____
Tutorial Lecture Students	\$7	\$12	
Nonstudents	\$15	\$25	\$ _____
Society Luncheon and Lecture (open to all attendees)	\$30	\$30	\$ _____
Women in Acoustics Luncheon Students	\$15	\$15	
Nonstudents	\$25	\$30	\$ _____
NUWC Tour	\$35	\$35	\$ _____
Cathedral of Saints Peter and Paul Tour	\$10	\$10	\$ _____

TOTAL REMITTANCE (U.S. Dollars) \$ _____

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 Providence 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 the last two 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 of the 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

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.

BIOMEDICAL ACOUSTICS STUDENT PAPER AWARD

The ASA Technical Committee on Biomedical Acoustics offers a Best Student Poster Award to students who present at spring meetings. Students who enter the competition are expected to give an oral presentation in a regular/special session and defend a poster in a separate student poster session. Only the poster presentation will be judged for the competition. Abstracts submitted by students who elect to participate in the competition will be listed in the program in appropriate oral sessions. Please read the entry qualifications that appear below to be sure you are eligible and follow the instructions for entering the competition.

AWARD AMOUNTS:

Up to three awards will be presented to students presenting papers in sessions organized by the Technical Committee on Biomedical Acoustics and participating in the special student poster session: USD\$500 for first prize, USD\$300 for second prize, and USD\$200 for third prize.

QUALIFICATIONS:

To qualify for an award, a student 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
- ▶ defend the poster at a special student poster session, which will be open to all attendees

SELECTION:

The awardees will be selected by a panel of judges, based upon the quality of the content of the poster and a brief presentation to the judges during a designated poster session. The award winners will be announced either at the meeting of the Biomedical Acoustics Technical Committee or after the close of the meeting.

APPLICATION:

All those who wish to participate in the competition must indicate their intention by clicking the entry box on the online abstract submission form. Additional details will be sent to entrants after the program has been organized.

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 2014
- ▶ 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.