

# 182<sup>nd</sup> Meeting of the Acoustical Society of America

The 182nd meeting of the Acoustical Society of America will be held Monday through Friday, 23-27 May 2022 at the Sheraton Denver Downtown Hotel, Denver Colorado, USA.

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## 1. COVID-19 VACCINATION REQUIREMENT FOR ATTENDANCE

All meeting attendees are required to show proof that they are fully vaccinated.

To be fully vaccinated means that you have received the minimum number of required vaccination shots for the type of vaccine that you have received.

## 2. HOTEL INFORMATION

The Sheraton Denver Downtown is the headquarters hotel where all meeting events will be held.

The cut-off date for reserving rooms at special rates has passed. Please contact the Sheraton (1550 Court Pl, Denver, CO 80202, Phone: (303) 893-3333) for information about room availability.

## 3. TRANSPORTATION AND TRAVEL

Visit <https://www.denver.org/listing/denver-international-airport/4065/> for ground transportation options between the Denver airport and the Sheraton Denver Downtown Hotel.

## 4. REGISTRATION

Registration is required for all attendees and accompanying persons. Registration badges must be worn in order to participate in technical sessions and other meeting activities.

Registration will open on Monday, 23 May, at 7:00 a.m. in the Plaza Exhibit Hall (see floor plan on page A10).

Checks in U.S. funds drawn on U.S. banks and Visa, MasterCard and American Express credit cards will be accepted for payment of registration. Meeting attendees who have pre-registered may pick up their badges and registration materials at the pre-registration desk.

The registration fees (in USD) are \$725 for members of the Acoustical Society of America; \$925 for non-members, \$250 for Emeritus members (Emeritus status pre-approved by ASA), \$425 for ASA Early Career members (for ASA members within three years of their most recent degrees – proof of date of degree required), \$200 for ASA Student members, \$300 for students who are not members of ASA, \$25 for Undergraduate Students, and \$250 for accompanying persons.

One-day registration is available at \$425 for members and \$500 for nonmembers (one-day means attending the meeting on only one day either to present a paper and/or to attend sessions). A nonmember who pays the \$925 nonmember registration fee and simultaneously applies for Associate Membership in the Acoustical Society of America will be given a \$50 discount off their dues payment for 2022 dues.

Invited speakers who are members of the Acoustical Society of America are expected to pay the Member full-week or one-day registration fees. Nonmember invited speakers who participate in the meeting only on the day of their presentation may register without charge. The registration fee for nonmember invited speakers who wish to participate for more than one day is \$400 and includes a one-year Associate Membership in the ASA upon completion of an application form.

**Special note to students who pre-registered online: You will also be required to show your student id card when picking-up your registration materials at the meeting.**

## 5. ACCESSIBILITY

If you have special accessibility requirements, please indicate this by informing ASA (1305 Walt Whitman Road,

Suite 110, Melville, NY 11747-4300; asa@acousticalsociety.org) at a minimum of thirty days in advance of the meeting. Please provide a cell phone number, email address, and detailed information including the nature of the special accessibility so that we may contact you directly.

## 6. TECHNICAL SESSIONS

The technical program includes 93 sessions with over 800 abstracts scheduled for presentation during the meeting.

A floor plan of the Sheraton Denver Downtown Hotel appears on page A10. Session Chairs have been instructed to adhere strictly to the printed time schedule, both to be fair to all speakers and to permit attendees to schedule moving from one session to another to hear specific papers. If an author is not present to deliver a lecture-style paper, the Session Chairs have been instructed either to call for additional discussion of papers already given or to declare a short recess so that subsequent papers are not given ahead of the designated times.

Several sessions are scheduled in poster format, with the display times indicated in the program schedule.

## 7. TECHNICAL SESSION DESIGNATIONS

### Abstract code examples: 1aAA1, 2pBAb4, 1eID1

The first character is a number indicating the day the session will be held, as follows:

- 1-Monday, 23 May
- 2-Tuesday, 24 May
- 3-Wednesday, 25 May
- 4-Thursday, 26 May
- 5-Friday, 27 May

The second character is a lower case “a” for a.m., “p” for p.m., or “e” for evening corresponding to the time of day the session will take place. The third and fourth characters are capital letters indicating the primary Technical Committee that organized the session using the following abbreviations or codes:

- AA Architectural Acoustics
- AB Animal Bioacoustics
- AO Acoustical Oceanography
- BA Biomedical Acoustics
- CA Computational Acoustics
- EA Engineering Acoustics
- ED Education in Acoustics
- ID Interdisciplinary
- MU Musical Acoustics
- NS Noise
- PA Physical Acoustics
- PP Psychological and Physiological Acoustics
- SA Structural Acoustics and Vibration
- SC Speech Communication
- SP Signal Processing in Acoustics
- UW Underwater Acoustics

In sessions where the same group is the primary organizer of more than one session scheduled in the same morning or afternoon, a fifth character, either lower-case “a,” or “b,” is used to distinguish the sessions. Each paper within a session is identified by a paper number following the session-designating characters, in conventional manner. As hypothetical examples: paper 2pEA3 would be the third paper in a session on Tuesday afternoon organized by the Engineering Acoustics Technical Committee; 3pSAb5 would be the fifth paper in the second

of two sessions on Wednesday afternoon sponsored by the Structural Acoustics and Vibration Technical Committee.

Note that technical sessions are listed both in the calendar and the body of the program in the numerical and alphabetical order of the session designations rather than the order of their starting times. For example, session 3aAA would be listed ahead of session 3aAO even if the latter session begins earlier in the same morning.

## 8. HOT TOPICS SESSION

The Hot Topics session (3pID) will be held on Wednesday, 25 May, at 2:40 p.m. in Plaza Ballroom D.

## 9. OTHER SPECIAL EVENTS

The Member Engagement Committee has organized Careers Beyond Academia Panel oriented towards those in academia who want to expand their careers into industry, form a small business, or become a consultant. Panelists have a mixture of academic and industry experience. Panelists will discuss the motivation for moving beyond academia, the difficulties making the transition, and challenges in having a dual career in academia and private industry. Panelists will be available for one-on-one discussion at the end of the panel. Panel sponsored by the Membership Engagement Committee and Task Force for Industry and Practitioners. Organizers: Derek Olson, Diane Kewley-Port, and Derrick Knight.

The panel will be held on 26 May, 4:00 p.m. to 6:00 p.m. in Directors Row I.

A workshop on Building Equitable Professional Networks Through Mentored Relationship has been organized by the Member Engagement Committee and the Committee to Improve Racial Diversity and Inclusivity.

ASA has made a commitment to fostering inclusion in all that we do. A first step is for the society to provide access to professional growth and development opportunities for members of historically marginalized groups. ASA recognizes that our society is better when we work together. Access is not enough. Our success in this initiative depends on developing formal and informal networks of mentors, fellows, and sponsors. This workshop will provide an overview on developing networking and mentoring relationships with peers and students including members of historically marginalized groups. Our goal is to ensure members of historically marginalized groups are welcomed into our society and receive opportunities to advance in the field of acoustics in an engaged and an inclusive environment. The workshop will focus on the process of building a professional network, developing effective mentoring relationships, and connecting as peer-to-peer mentors. This workshop is intended for professionals and students from all career levels from both academic institutions and industry. Organizers are Yolanda Holt, Susannah Levi, and Kimberly Riegel.

The workshop will be held on Thursday, 26 May, 10:00 a.m. in Directors Row I.

## 10. HARTMANN PRIZE IN AUDITORY NEUROSCIENCE AND AUDITORY NEUROSCIENCE PRIZE LECTURE

The Hartmann Prize in Auditory Neuroscience will be presented at the Denver meeting during the Plenary Session on Wednesday, 25 May.

Dr. Philip Joris will present the Auditory Neuroscience Prize Lecture titled “Coincidences and Delays in Disguise” in session 3pPP 1:20 p.m. to 2:25 p.m. in Plaza Ballroom D.

#### **11. TECHNICAL COMMITTEE OPEN MEETINGS**

Technical Committees will hold open meetings on Tuesday, Wednesday, and Thursday. The schedule and rooms for each Committee meeting are given on page A9.

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.

#### **12. PLENARY SESSION AND AWARDS CEREMONY**

A plenary session will be held Wednesday, 25 May, at 4:30 p.m. in Plaza Ballroom ABC.

ASA scholarship recipients will be introduced. The Hartmann Prize in Auditory Neuroscience, the Silver Medal in Noise, the R. Bruce Lindsay Award, the Helmholtz-Rayleigh Interdisciplinary Silver Medal in Architectural Acoustics and Engineering Acoustics, and the Gold Medal will be presented. Certificates will be presented to Fellows elected at the Seattle meeting. See page A192 for a list of fellows and award recipients.

All attendees are welcome and encouraged to attend. Please join us to honor and congratulate these medalists and other award recipients.

#### **13. ANSI STANDARDS COMMITTEES**

Meetings of ANSI Accredited Standards Committees will be held at the Denver meeting. Please see the Schedule of Committee Meetings and Other Events on page A9 for the schedule of Standards Committee meetings and Standards working group meetings.

People interested in attending and in becoming involved in working group activities should contact the ASA Standards Manager for further information about these groups, or about the ASA Standards Program in general, at the following address: Nancy Blair-DeLeon, ASA Standards Manager, Standards Secretariat, Acoustical Society of America, 1305 Walt Whitman Road, Suite 110, Melville, NY 11747-4300; T.: 631-390-0215; E: [asastds@acousticalsociety.org](mailto:asastds@acousticalsociety.org)

#### **14. COFFEE BREAKS**

Morning coffee breaks will be held from 9:45 a.m. to 11:00 a.m. in the Plaza Exhibit Hall.

#### **15. A/V PREVIEW ROOM**

Plaza Court 7 will be set up as an A/V preview room for authors’ convenience and will be available on Monday through Thursday from 7:00 a.m. to 5:00 p.m. and Friday from 7:00 a.m. to 12:00 noon.

#### **16. INTERNET ZONE**

Wi-Fi will be available in all ASA meeting rooms and spaces.

Tables with power cords will be set up in the Plaza Exhibit Hall for attendees to gather and to power-up their electronic devices.

#### **17. LACTATION ROOM**

A lactation room for ASA meeting attendees will be available Monday to Friday, 23-27 May in Plaza Court 6. The hours are Monday to Thursday, 8:00 a.m. to 5:00 p.m. and Friday, 8:00 a.m. to 12:00 noon.

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

The Denver meeting 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 for downloading without charge to anyone in the world. 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. It is not necessary to wait until after the meeting to submit one’s paper to POMA. Further information regarding POMA can be found at the site <http://acousticsauthors.org>. Published papers from previous meeting can be seen at the site <http://asadl/poma>.

#### **19. SOCIALS**

Socials will be held on Tuesday and Thursday evenings, 6:00 p.m. to 7:30 p.m. in the Plaza Ballroom.

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

#### **20. SOCIETY LUNCHEON AND LECTURE**

The Society Luncheon and Lecture, sponsored by the College of Fellows, will be held Thursday, 26 May, at 12:00 noon in the Windows Room (Tower Building).

This luncheon is open to all attendees and their guests. Purchase your tickets at the Registration Desk before 10:00 a.m. on Wednesday, 25 May. The cost is USD \$30.00 per ticket.

#### **21. STUDENT EVENTS: NEW STUDENTS/ FIRST-TIME ATTENDEE ORIENTATION, MEET AND GREET, STUDENT RECEPTION**

Follow the student twitter throughout the meeting @ASAStudents,

A New Students/First-Time Attendee Orientation will be held on Monday, 23 May, from 5:00 p.m. to 5:30 p.m. in Governors Square 14. This will be followed by the Student Meet and Greet from 5:30 p.m. to 6:45 p.m. in the Windows Room (Tower Building) where refreshments and a cash bar will be available.

The Students’ Reception will be held on Wednesday, 25 May, from 6:00 p.m. to 8:00 p.m. in the Windows Room (Tower Building). This reception, will provide an opportunity for students to meet informally with fellow students and other members of the Acoustical Society. All students are encouraged to attend, especially students who are first time attendees or those from smaller universities.

To encourage student participation, limited funds are available to defray partially the cost of travel expenses of students to attend Acoustical Society meetings. Instructions for applying for travel subsidies are given in the Call for Papers which can be found online at <http://acousticalsociety.org>. The deadline for the present meeting has passed but this information may be useful in the future.

## 22. WOMEN IN ACOUSTICS LUNCHEON

The Women in Acoustics luncheon will be held at 11:45 a.m. on Wednesday, 25 May, in the Windows Room (Tower Building). Those who wish to attend must purchase their tickets in advance by 10:00 a.m. on Tuesday, 24 May. The fee is USD \$30 for non-students and USD \$15 for students.

## 23. JAM SESSION

You are invited to the JAM on Wednesday night, 25 May, from 8:00 p.m. to midnight to be held at the Sheraton Hotel in the Plaza Ballroom. 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 with snacks, and all-around good times. Don't miss out.

## 24. ACCOMPANYING PERSONS PROGRAM

Spouses and other visitors are welcome at the Denver meeting. The on-site registration fee for accompanying persons is USD \$250. A hospitality room for accompanying persons will be open in Plaza Court 4 8:00 a.m. to 10:00 a.m. Monday through Friday. This entitles you access to the accompanying persons room, social events on Tuesday and Thursday, the Jam Session, and the Plenary Session on Wednesday afternoon.

## 25. WEATHER

Spring brings showers and snow but also sunshine. Temperatures are pleasant for most of the spring, and many outdoor attractions begin opening mid- to late-season. The increasing temperature and sunshine bring a spring bloom to the city which attracts birds and butterflies, especially in April and May. It can get cool at night, but freezing temperatures are generally uncommon after mid-spring, which makes it an excellent time to experience the city. Average temperatures: High: 71 degrees F; Low: 44 degrees F.

## 26. TECHNICAL PROGRAM ORGANIZING COMMITTEE

Carrie Wall, Technical Program Chair; Christopher Bassett, Acoustical Oceanography; Michael Smotherman, Animal Bioacoustics; David Manley, Brandon Cudequest, Architectural Acoustics; Kang Kim, Libertario Demi, Biomedical Acoustics; Amanda Hanford, Computational Acoustics; Daniel Russell, Education in Acoustics; Michael Haberman, Thomas Blanford, Engineering Acoustics; Kurt Hoffman, Taffeta Elliott, Musical Acoustics; Aaron Vaughn, James Phillips, Hales Swift, Noise; Kevin Lee, Samuel Wallen, Physical Acoustics; Ellen Peng, Gregory Ellis, Psychological and Physiological Acoustics; Kai Gemba, Trevor Jerome, Signal Processing in Acoustics; Christina Zhao, Rajka Smiljanic, Matthew Masapollo, Matthew Winn, Speech Communication;

Anthony Bonomo, Stephanie Konarski, Structural Acoustics and Vibration; Arjun Song, Underwater Acoustics.

## 27. MEETING ORGANIZING COMMITTEE

Dana S. Hougland, Chair; Carrie Wall, Technical Program Chair; Michael Calvisi, Stuart McGregor, *Signs* Monique Alexander, Accompanying Persons, Room Monitors.

## 28. PHOTOGRAPHING AND RECORDING

Photographing and recording during regular sessions are not permitted without prior permission from the Acoustical Society.

## 29. ABSTRACT ERRATA

This meeting program is Part 2 of the April 2022 issue of *The Journal of the Acoustical Society of America*. Corrections, for printer's errors only, may be submitted for publication in the Errata section of the *Journal*.

## 30. GUIDELINES FOR ORAL PRESENTATIONS, Preparation of Visual Aids

- See the guidelines for computer projection in section 41 below.
- Allow at least one minute of your talk for each slide (e.g., PowerPoint). No more than 12 slides for a 15-minute talk (with 3 minutes for questions and answers).
- Minimize the number of lines of text on one visual aid. 12 lines of text should be a maximum. Include no more than 2 graphs/plots/figures on a single slide. Too little information is better than too much.
- Presentations should contain simple, legible text that is readable from the back of the room.
- Characters should be at least 0.25 inches (6.5 mm) in height to be legible when projected. A good rule of thumb is that text should be 20 point or larger (including labels in inserted graphics). Anything smaller is difficult to read.
- Make symbols at least 1/3 the height of a capital letter.
- For computer presentations, use all of the available screen area using landscape orientation with very thin margins. If your institutions logo must be included, place it at the bottom of the slide.
- Sans serif fonts (e.g., Arial, Calibri, and Helvetica) are much easier to read than serif fonts (e.g., Times New Roman) especially from afar. Avoid thin fonts (e.g., the horizontal bar of an e may be lost at low resolution thereby registering as a c.)
- Do not use underlining to emphasize text. It makes the text harder to read.
- All axes on figures should be labeled.
- No more than 3–5 major points per slide.
- Consistency across slides is desirable. Use the same background, font, font size, etc. across all slides.
- Use appropriate colors. Avoid complicated backgrounds and do not exceed four colors per slide. Backgrounds that change from dark to light and back again are difficult to read. Keep it simple.
- If using a dark background (dark blue works best), use white or yellow lettering. If you are preparing slides that may be printed to paper, a dark background is not appropriate.

- If using light backgrounds (white, off-white), use dark blue, dark brown or black lettering.
- DVDs should be in standard format.

### **Presentation**

- Organize your talk with introduction, body, and summary or conclusion. Include only ideas, results, and concepts that can be explained in the allotted time. Four elements to include are:
  - Statement of research problem
  - Research methodology
  - Review of results
  - Conclusions
- No more than 3–5 key points can be covered adequately in a 15-minute talk so keep it concise.
- Rehearse your talk so you can confidently deliver it in the allotted time. Session Chairs have been instructed to adhere to the time schedule and to stop your presentation if you run over.
- An A/V preview room will be available for viewing computer presentations before your session starts. It is advisable to preview your presentation because in most cases you will be asked to load your presentation onto a computer which may have different software or a different configuration from your own computer.
- Arrive early enough so that you can meet the session chair, load your presentation on the computer provided, and familiarize yourself with the microphone, computer slide controls, laser pointer, and other equipment that you will use during your presentation. There will be many presenters loading their materials just prior to the session so it is very important that you check that all multi-media elements (e.g., sounds or videos) play accurately prior to the day of your session.
- Each time you display a visual aid the audience needs time to interpret it. Describe the abscissa, ordinate, units, and the legend for each figure. If the shape of a curve or some other feature is important, tell the audience what they should observe to grasp the point. They won't have time to figure it out for themselves. A popular myth is that a technical audience requires a lot of technical details. Less can be more.
- Turn off your cell phone prior to your talk and put it away from your body. Cell phones can interfere with the speakers and the wireless microphone.

## **31. SUGGESTIONS FOR EFFECTIVE POSTER PRESENTATIONS**

### **Content**

- The poster should be centered around two or three key points supported by the title, figures, and text. The poster should be able to “stand alone.” That is, it should be understandable even when you are not present to explain, discuss, and answer questions. This quality is highly desirable since you may not be present the entire time posters are on display, and when you are engaged in discussion with one person, others may want to study the poster without interrupting an ongoing dialogue.

- To meet the “stand alone” criteria, it is suggested that the poster include the following elements, as appropriate:

- Background
- Objective, purpose, or goal
- Hypotheses
- Methodology
- Results (including data, figures, or tables)
- Discussion
- Implications and future research
- References and Acknowledgment

### **Design and layout**

- A board approximately 8 ft. wide × 4 ft. high will be provided for the display of each poster. Supplies will be available for attaching the poster to the display board. Each board will be marked with an abstract number.
- Typically, posters are arranged from left to right and top to bottom. Numbering sections or placing arrows between sections can help guide the viewer through the poster.
- Centered at the top of the poster, include a section with the abstract number, paper title, and author names and affiliations. An institutional logo may be added. Keep the design simple and uncluttered. Avoid glossy paper.

### **Lettering and text**

- Font size for the title should be large (e.g., 70-point font)
- Font size for the main elements should be large enough to facilitate readability from 2 yards away (e.g., 32-point font). The font size for other elements, such as references, may be smaller (e.g., 20–24 point font).
- Sans serif fonts (e.g., Arial, Calibri, Helvetica) are much easier to read than serif fonts (e.g., Times New Roman).
- Text should be brief and presented in a bullet-point list as much as possible. Long paragraphs are difficult to read in a poster presentation setting.

### **Visuals**

- Graphs, photographs, and schematics should be large enough to see from 2 yards (e.g., 8 × 10 inches).
- Figure captions or bulleted annotation of major findings next to figures are essential. To ensure that all visual elements are “stand alone,” axes should be labeled and all symbols should be explained.
- Tables should be used sparingly and presented in a simplified format.

### **Presentation**

- Prepare a brief oral summary of your poster and short answers to questions in advance.
- The presentation should cover the key points of the poster so that the audience can understand the main findings. Further details of the work should be left for discussion after the initial poster presentation.
- It is recommended that authors practice their poster presentation in front of colleagues before the meeting. Authors should request feedback about the oral presentation as well as poster content and layout.

## Other suggestions

- You may wish to prepare reduced-size copies of the poster (e.g., 8 1/2 × 11 sheets) to distribute to interested audience members.

## 32. GUIDELINES FOR USE OF COMPUTER PROJECTION

A PC computer with monaural audio playback capability and projector will be provided in each meeting room on which all authors who plan to use computer projection should load their presentations. Authors should bring computer presentations on a CD 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. Assistance in loading presentations onto the computers will be provided.

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

### Introduction

It is essential that each speaker who plans to use his/her own laptop connect to the computer projection system in the A/V preview room prior to session start time to verify that the presentation will work properly. Technical assistance is available in the A/V preview room at the meeting, but not in session rooms. Presenters whose computers fail to project for any reason will not be granted extra time.

### Guidelines

- Set your computer's screen resolution to 1024x768 pixels or to the resolution indicated by the AV technical support. If it looks OK, it will look OK to your audience during your presentation.
- Remember that graphics can be animated or quickly toggled among several options: Comparisons between figures may be made temporally rather than spatially.
- Animations often run more slowly on laptops connected to computer video projectors than when not so connected. Test the effectiveness of your animations before your assigned presentation time on a similar projection system (e.g., in the A/V preview room). Avoid real-time calculations in favor of pre-calculation and saving of images.
- If you will use your own laptop instead of the computer provided, connect your laptop to the projector during the question/answer period of the previous speaker. It is good protocol to initiate your slide show (e.g., run PowerPoint) immediately once connected, so the audience doesn't have to wait. If there are any problems, the session chair will endeavor to assist you, but it is your responsibility to ensure that the technical details have been worked out ahead of time.
- During the presentation have your laptop running with main power instead of using battery power to ensure that the laptop is running at full CPU speed. This will also guarantee that your laptop does not run out of power during your presentation.

## Specific Hardware Configuration

### Macintosh

Older Macs require a special adapter to connect the video output port to the standard 15-pin male DIN connector. Make sure you have one with you.

- Hook everything up before powering anything on. (Connect the computer to the RGB input on the projector).
- Turn the projector on and boot up the Macintosh. If this doesn't work immediately, you should make sure that your monitor resolution is set to 1024x768 for an XGA projector or at least 640x480 for an older VGA projector. (1024x768 will most always work.). You should also make sure that your monitor controls are set to mirroring.
- If it's an older PowerBook, it may not have video mirroring, but something called simulscan, which is essentially the same.
- Depending upon the vintage of your Mac, you may have to reboot once it is connected to the computer projector or switcher. Hint: you can reboot while connected to the computer projector in the A/V preview room in advance of your presentation, then put your computer to sleep. Macs thus booted will retain the memory of this connection when awakened from sleep.
- Depending upon the vintage of your system software, you may find that the default video mode is a side-by-side configuration of monitor windows (the test for this will be that you see no menus or cursor on your desktop; the cursor will slide from the projected image onto your laptop's screen as it is moved). Go to Control Panels, Monitors, configuration, and drag the larger window onto the smaller one. This produces a mirror-image of the projected image on your laptop's screen.
- Also depending upon your system software, either the Control Panels will automatically detect the video projector's resolution and frame rate, or you will have to set it manually. If it is not set at a commensurable resolution, the projector may not show an image. Experiment ahead of time with resolution and color depth settings in the A/V preview room (please don't waste valuable time adjusting the Control Panel settings during your allotted session time).

### PC

- Make sure your computer has the standard female 15-pin DE-15 video output connector. Some computers require an adaptor.
- Once your computer is physically connected, you will need to toggle the video display on. Most PCs use either ALT-F5 or F6, as indicated by a little video monitor icon on the appropriate key. Some systems require more elaborate keystroke combinations to activate this feature. Verify your laptop's compatibility with the projector in the A/V preview room. Likewise, you may have to set your laptop's resolution and color depth via the monitor's Control Panel to match that of the projector, which settings you should verify prior to your session.

## Linux

- Most Linux laptops have a function key marked CRT/LCD or two symbols representing computer versus projector. Often that key toggles on and off the VGA output of the computer, but in some cases, doing so will cause the computer to crash. One fix for this is to boot up the BIOS and look for a field marked CRT/LCD (or similar). This field can be set to Both, in which case the signal to the laptop is always presented to the VGA output jack on the back of the computer. Once connected to a computer projector, the signal will appear automatically, without toggling the function key. Once you get it working, don't touch it and it should continue to work, even after reboot.

## 33. DATES OF FUTURE ASA MEETINGS

For further information on any ASA meeting, or to obtain instructions for the preparation and submission of meeting abstracts, contact the Acoustical Society of America, 1305 Walt Whitman Road, Suite 300, Melville, NY 11747-4300; Telephone: 516-576-2360; Fax: 631-923-2875; E-mail: [asa@acousticalsociety.org](mailto:asa@acousticalsociety.org)

183rd Meeting, Nashville, Tennessee, 5-9 December 2022

184th Meeting, Chicago Illinois, 8-12 May 2023

185th Meeting, joint with the Australian Acoustical Society, WESPAC, Sydney, Australia, 4-8 December 2023

189th Meeting, joint with the International Commission for Acoustics, New Orleans, Louisiana, May 2025