

Physical Acoustics Technical Committee Meeting

December 8, 2020

Chair: Joel Mobley

jmobley@olemiss.edu

Welcome

Everyone please sign in using the chat box

New attendees – *welcome and please introduce yourselves*

AVE Meeting stats

>1100 abstracts

>1300 attendees

Physical Acoustics: 25 sessions, Everyday AM/PM

Announcements: Co-Sponsored Events

International Symposium on Nonlinear Acoustics (ISNA)

University of Oxford, UK; St. Catherine's College (2022)

Robin Cleveland, Mark Hamilton

Winter School on Therapeutic Ultrasound

Les Houches, France, (*March 7-12, 2021??*)

Vera Khokhlova

-- The event is unlikely to occur in March. Vera would still like to secure funds.

Physical Acoustics Summer School (PASS)

University of Mississippi; (*Spring 2022??*)

Josh Gladden

-- Josh Gladden: We want to have it as an in-person event. The committee is leaning towards canceling until spring 2022. No official decision has been made.

Announcements: Books

ASA Books

Mark Hamilton

-- ASA has formed a partnership with Springer. The committee is looking for more proposals for good, quality acoustics-related books. Contact Mark Hamilton with questions <hamilton@mail.utexas.edu>

Understanding Acoustics, 2nd Ed., by Steve Garrett

Open Access -- Free download

-- Steve's book is available as a free download

<https://www.springer.com/gp/book/9783030447861>

Committee Reports

Student Council

Blake Simon

blakesimon8@utexas.edu

ASA Student Council Update – Blake Simon

- About 80 students attended the student events on Monday
- Try to personally invite more students to TC meetings
- Students, keep an eye out for the ASA school applications

-- Ways to connect with students:

Website – **asastudents.org**

Acoustics Programs Database – **exploresound.org**

Twitter – **@asastudents**

Facebook – **Acoustical Society of America – Students**

LinkedIn – **Acoustical Society of America Students**

ASACOS

Greg Lyons

Gregory.W.Lyons@erdc.dren.mil

- Reach out to Greg with questions
- Standards sales are strong

Membership

Kent Gee

kentgee@byu.edu

- Encourage younger colleagues to get a full membership at the ASA
- Nominate PA members to be ASA fellows

Medals and Awards

Jay Maynard

jdm8@psu.edu

- Jay will continue for another 3-yr term

Technical Council Report

Committee to Improve Racial Diversity and Inclusivity (CIRDI)

Tyrone Porter and Peggy Nelson, co-chairs

Research/Internship program for minority students –Summer 2021

- Workshop (3 weeks)
- Laboratory research or other hands-on experience
- American Institute of Physics (AIP), ASA Foundation, ASA Executive Council providing funds.
- Seeking TC contributions (e.g., \$15k adds two students), mentors and instructors

See the following site for more information

<https://acousticalsociety.org/diversity-initiatives/>

- See the three articles in Acoustics Today by Tyrone Porter, Ellington Scott and James West, respectively.

Task Force A: Identification and Promotion of Emerging Scientific/Technical Areas

- Hold monthly seminars targeting emerging areas
- Provide increased exposure to ASA for early career members
- Free to ASA, cost to others??

Task Force B: Better Engagement of Industry and Practitioners (see survey at end)

- Aim is to make ASA place to go for professional education and certification (ASA Academy)

- Can provide revenue stream for society

Task Force D: Member engagement outside meetings

- Create a speakers bureau
- Open improved communications channels (e.g. Slack)
- Create an online database (e.g. Airtable) to share creative ideas among educators – demos, resource materials, simulations
- Create a central directory for public facing acoustics-related datasets (will not house the datasets)
- Leverage student and regional chapters for outreach
- Employ surveys
- Idea from TC meeting : Journal club – JASA article each month *led by first author*

ASA Webinar Series

- Monthly series
- Topics, speakers, moderators selected by a working group
- Will evaluate the program after three webinars
- Seeking volunteers to join the Working Group, TC suggestions for speakers, etc...

Meetings

- 2021 Spring: **Virtual**, June 7-11
Conf. Chair: Andy Piacsek; Tech. Chair: Anna Diedesch
- 2021 Fall: **Seattle, WA**, Nov. 28 – Dec. 3
Conf. Chair: Todd Hefner; Tech. Chair: Aubrey Espan
- 2022 Spring: **Denver, CO**, May 23-27
- 2022 Fall: **TBA**, Atlanta, GA, is under consideration
- 2023 Spring: **Chicago, IL**
- 2023 Fall: **Sydney, Australia**, December 6-10
- 2024 meetings have not been scheduled
- Spring 2025: **New Orleans, LA**
Conf. Chair: Mark Hamilton
Joint w/ International Congress on Acoustics (ICA)

AVE Meeting

Comments?

- Some people had a problem with prerecorded talks
- There were logistical concerns about allowing live talks (internet connectivity, etc.)
- The registration process was more complicated this year
- Moving up the deadline for submitting a talk resulted in many talks being withdrawn. Authors may need lead time to get clearance from sponsors.
 - Some of these problems could be alleviated if the deadline was known earlier
- People liked that you could view talks even if the talk occurs at the same time as another talk is being given
- Some people thought the registration fee was too much for this virtual ASA Meeting
- Particularly bad for students (\$100)
- No distinction between graduate and undergraduate students
- The student fee was based on projections back in July
- Society of Physics Students Travel Grants (will support virtual meetings):
<https://www.spsnational.org/awards/travel>

Take the post-meeting survey

Special Sessions, this week

Acoustical Measurements Through Optical Principles

Greg Lyons and Thomas Moore

Tuesday: 4 sessions

Acoustofluidics

Charles Thompson, John Meacham, Kedar Chitale, Max Denis

Thursday AM/PM: 4 sessions

Friday AM: 2 sessions

Special Sessions: Spring 2021 (Virtual)

Acoustical Methods and Sensors for Challenging Environments

Cristian Pantea, Dipen Sinha

Acoustic Wave Propagation Through Polydisperse Scatterers

Nick Ovenden, Eleanor Stride (*waiting on BA scheduling*)

Particle velocity sensing and associated signal processing

Kirk Alberts, Ning Xiang

Sonic Boom: Modeling, Measurement, Annoyance and Standards Development

Joel Lonzaga, Alexandra Loubeau

Special Sessions: Fall 2021 (Seattle, WA)

Impact of Logan Hargrove on Physical Acoustics

Preston Wilson, Ralph Muehleisen, Veerle Keppens

Infrasound

Roger Waxler, Phil Blom

Wind Noise

Greg Lyons, Kirk Alberts, Rich Raspet

Special Sessions: Spring 2022 (Denver, CO)

Vortex Beams and Angular Momentum

Likun Zhang

Publications

Proceedings on Meetings in Acoustics – POMA

- Thanks to Kent Gee for serving as editor of POMA!
- POMA is free to authors
- Rapid publication
- There are a lot of downloads since POMA is open access
- POMA is a great way to teach graduate students how to write
- Great way to recap and publish papers from a special session

JASA & JASA-EL

From the JASA Editor-in-Chief

- "Special Content" articles/issues recommendations
- These boast the impact factor
- There will be another special issue on education in acoustics
- JASA-EL is now an independent publication
 - The goal is to boast impact factor in this early stage
 - Any senior ASA members are encouraged to submit review papers
 - Separating JASA-EL and JASA may boast JASA's impact factor
- JASA reflections
- Requests a list of 10 classic papers in PA
 - Send recommendations to Joel Mobley jmobley@olemiss.edu
- Feedback is desired on submissions for JASA reflections
- PA section is about 10% of all submissions

Other JASA stats

- 50 days to decision, 150 to acceptance
- 55% acceptance rate
- 1600 submissions
- Impact Factor: 1.9 for 5y; 1.9 specific to PA
- PA papers: 160, downloads > 300
- Podcast to promote articles is planned

Industry & Practitioner Engagement Survey: Certification Programs**Certificate topics?**

- Support for ASA short courses
- Computational acoustics: COMSOL offers short courses, but not a certification
- The ASA can look into micro-credentials for specific subject areas
- It might be helpful for PASS to officially award some kind of certificate or other document for students that complete it

Competing Programs?

- Non-destructive evaluation (NDE)
- CAOHC (Council for the Accreditation of Occupational Hearing Conservationists)

Adjourn