




Physical Acoustics Technical Committee Meeting

December 8, 2020
Chair: Joel Mobley
jmobley@olemiss.edu



Welcome

- **Everyone please sign in using the chat box**
 - Name
 - E-mail
 - If you are a student, please indicate so
- **New attendees** – *welcome and please introduce yourselves*
- **AVE Meeting stats**
 - >1100 abstracts
 - >1300 attendees
 - PA: 25 sessions, Everyday AM/PM



Announcements

- **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



- **Physical Acoustics Summer School (PASS)**
 - University of Mississippi; (Spring 2022??)
 - Josh Gladden



Announcements

- **ASA Books**
 - Mark Hamilton




- **Understanding Acoustics, 2nd Ed., by Steve Garrett**
 - Open Access -- Free download

Graduate Texts in Physics

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Open Access

Provides graduate-level treatment of acoustics and vibration suitable for use in courses, for self-study, and as a reference



Understanding Acoustics
An Experimentalist's View of Sound and Vibration
Authors: Garrett, Steven L.

Free Preview

Committee Reports

- **Student Council**
 - Blake Simon
- **Standards**
 - Greg Lyons
- **Membership**
 - Kent Gee
- **Medals and Awards**
 - Jay Maynard
 - *Jay will continue to serve!*

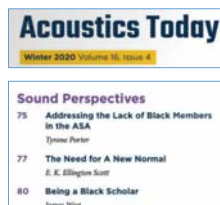


Technical Council



Technical Council Racial Diversity

- **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 (≥ 6 weeks)
 - AIP, ASA Foundation, EC providing funds
 - Seeking ...
 - TC contributions (e.g., \$15k adds two students)
 - Mentors, instructors
- <https://acousticalsociety.org/diversity-initiatives/>



Technical Council Emerging Areas

- **Identification and Promotion of Emerging Scientific/Technical Areas**
 - Monthly seminars targeting emerging areas
 - Increased exposure to ASA for early career members
 - Free to ASA, cost to others??



Technical Council Industry & Practitioner Engagement

- **Better Engagement of Industry and Practitioners (see survey)**

- Make ASA place to go for professional education and certification (ASA Academy)
- Revenue stream for society
- Feedback:
 - *What areas to target?*
 - *Who are the competing organizations?*
 - *Who is willing to teach?*
 - *What administrative infrastructure would be required?*



Technical Council Member Engagement

- **Member engagement outside meetings**

- Speakers Bureau
- Improved communications channels (e.g. Slack)
- Online database (e.g. Airtable)
 - share creative ideas among educators – demos, resource materials, sims
- Central directory for public facing datasets
- Leveraging student and regional chapters
- Surveys
- Idea from TC mtg : Journal club – JASA article each month *led by first author*



Technical Council Other

- **ASA Webinar Series**
 - Monthly
 - 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
 - Conference Chair: Andy Piacsek; Technical Chair: Anna Diedesch
- **Fall: Seattle, WA**
 - November 28 – December 3 → (Feedback?)
 - Conference Chair: Todd Hefner; Technical Chair: Aubrey Espan



Meetings: 2022

- Spring: Denver, CO
 - May 23-27

- Fall: Atlanta, GA ???
 - TBA



Meetings: 2023-2025

- 2023
- Spring: Chicago, IL

- Fall: Sydney, Australia
 - December 6-10

- 2024 ??

- 2025
- New Orleans, LA (Joint with ICA)
 - Chair: Mark Hamilton



AVE Meeting

- What do you think so far?
 - Registration Fees?
 - *Quality takes money*
 - *Based on projections back in July*
- 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

- **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 – Seattle, WA Nov-Dec 2021

- **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 – Denver, CO
May 2022**

Proposals

- **Vortex Beams**
 - Likun Zhang

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Publications



POMA

- Thanks to Kent Gee as he steps down as Editor of POMA – now assistant editor



PROCEEDINGS OF MEETINGS ON ACOUSTICS



Free to Authors

The cost of publishing in POMA is included in the ASA Meeting registration fee.



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POMA

JASA & JASA-EL



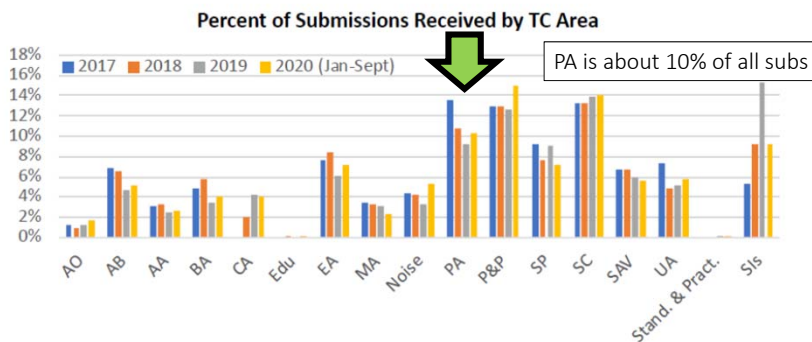
From the JASA Editor-in-Chief

What Publications needs from the TCs



- Coordinating Editors *for each* TC (currently staffed!)
 - Someone who is reliable and has an overview of topics and AE personnel
- Quarterly “TC Chair Picks” for JASA homepage
 - Four TCs make a pick each quarter, 2-4 weeks in advance. We rotate TCs.
 - Great advertising and free access for 90 days!
- “Special Content” articles/issues **recommendations**
 - Special Issues, Guest articles, **Reviews, Tutorials, Forum** articles suggestions and authors
 - Again, great advertising, no mandatory page charges.
 - Special Issue articles are free for 1 year after publication and other special content are currently free indefinitely
 - These are giving a **big boost to Journal IF.**
- JASA-EL’s aim is to make an early impact by inviting papers
 - Please email Charlie Church (cchurch@olemiss.edu) if you have any suggestions for topics/authors
- JASA Reflections:
 - We have some classic paper recommendations from all TCs. We still would like a full list of 10 classic papers from all TCs.
- Routine discussion with each TC about AE staffing!
 - Number and technical sub-specialties that need coverage.

JASA Dashboard – 2020 Q3



- 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

Industry & Practitioner Engagement Survey: Certification Programs

- What certificate topics might the members in your specialty offer?
- Does this have sufficient potential to justify the amount of work required for a certification program run by the ASA?
- Which societies or professional organizations do members of your specialty belong to other than the ASA?
 - *Dispel the idea that ASA is an academic-only focused society*
- How difficult do you anticipate the recruitment of a qualified instructor to be within your specialty in the ASA? (*topics? who? – it will be paid*)
- Are you aware of similar programs? (*competitors? costs?*)
- Other comments?

Other Business?

