



Physical Acoustics Technical Committee

Open Meeting Agenda
178th ASA Meeting
Tuesday, December 3, 2019
San Diego, CA

- 1. Welcome new people!**
58 people attended, including 14 new people!
- 2. ASA 178 PA Special Sessions**

TUESDAY, DECEMBER 3, 2019

2aPA: Design of Acoustics Metamaterials: Optimization and Machine Learning I

Chair: Feruza Amirkulova (San Jose State University)

7:45am - 11:55am; WILDER

2pPA: Design of Acoustics Metamaterials: Optimization and Machine Learning II

Chair: Feruza Amirkulova (San Jose State University)

1:30pm - 3:10pm; WILDER

WEDNESDAY, DECEMBER 4, 2019

3aPA: Non-Reciprocal and Topological Acoustics

Chairs: Yun Jing (North Carolina State University) and Michael Haberman (The University of Texas at Austin)

9:15am - 11:50am; WILDER

THURSDAY, DECEMBER 5, 2019

4aPA: Aqueous Acoustic Metamaterials I

Chairs: Matthew Guild (Naval Research Lab.), Shane Lani (Georgia Tech), and Jason Smoker (University of Maryland)

9:00am - 12:00pm; WILDER

4pPA: Aqueous Acoustic Metamaterials II

Chairs: Matthew Guild (Naval Research Lab.), Shane Lani (Georgia Tech), and Jason Smoker (University of Maryland)

1:15pm - 3:30pm; WILDER



3. Update from Committees? (Medals & Awards, Membership,...?)

James Sabatier received silver medal in physical acoustics!

4. PATC website: Thanks Alexandra!

should we put minutes on website?

- Josh Gladden: yes probably easier
- No one is opposed to having them on website
- Alexandra: link to the box site or text on the website?
Consensus to post on the website

5. Notes from Technical Council

a. Standards:

The 5 free standards benefit will go away effective January 1 (was not sustainable). There will be discount for “bundles”.

b. JASA EL:

Will become a separate open access journal, launched by end of 2020. Cost will go up from \$500 to \$900, but will allow for an extra page and an extra figure

c. Photography policy:

Currently, we have a no photography policy, which is hard to enforce. What are PATC’s thoughts on this policy?

- some agencies prefer not to have the slides photographed
- Ralph: Limited access is better for some government agencies
- Do we want the presenter to stop people?
 - Gladden: noticed markedly less photos with the slides being shown that say it’s not allowed
- Kent Gee: as a mentor, I take pictures of my students and I will continue to do this

d. 2020 is International year of Sound (sound2020.org)

- (i) ASA is supporting #Wiki4YearOfSound2020, a campaign to improve Wikipedia articles related to sound. A “Wikipedia editing workshop” workshop will take place during the 1ASA Meeting in Chicago, May 2020. Workshop attendees will learn the basics of Wikipedia editing and make substantive changes to Wikipedia articles within their area of expertise.



- a. Wednesday of the Chicago meeting
 - (ii) Acoustics Today will have list of events for year of sound
 - (iii) If you are near a regional chapter: there will be resources/funding for them to be involved

- e. Future meetings:
 - (i) Cost (registration and hotel) will likely go up
 - (ii) Cancun meeting (Fall2020): will security concerns keep you from attending?
 - 5 people raised their hand
 - Michelle: a lot of paperwork for govt agencies to go to Mexico. Difficult to justify
 - 10 more people said their agency may prevent them from attending
 - (iii) Sidney (Fall2021):
 - a. 100 \$1000 scholarships available for students – application process TBD
 - b. Will be truly joint meeting
 - c. Will have keynote speakers
 - d. Call for papers – will likely be earlier than usual (April- May 2021, before spring mtg)

- f. TC chair selection:

Many TCs have different ways to go about nominating/voting for new chairs.

PATCS's current "rule":

 - Nominating committee consists of outgoing chair plus two previous chairs
 - All committee members and ASA members who attend the fall meeting of the PATC receive ballots by e-mail
 - Everyone on email list to vote? Or what other ideas?
 - Fix by emphasis: all committee members AND ASA members who attend the fall meeting of PATC
 - Change AND to "as well as"
 - Vic Sparrow: "Very reasonable"
 - Gladden: how many committee members?



- Veerle: well over 300 on email list, 75-80 are actually on the committee
- How do you become an official member of the committee?
 - Elaine asked Veerle if she wants to add anyone to the list
 - Email Veerle if you'd like to be a committee member
- Look for an email ballot this year

6. **Student Council Report** (Will Doebler)

- a. Will's last meeting as PATC Student Council Rep
- b. Blake Simon from UT Austin is the incoming rep
- c. Acoustics Program Database
 - i. Navigate to it from exploresound.org under University drop down menu
 - ii. If you don't see your program listed, contact me or Keeta Jones kjones@acousticalsociety.org
 - iii. Send updates if necessary

7. **ASA Strategic Plan**

- a. Champions mtg open to everybody – Thursday at 2:00. Need PATC representatives!
- b. Taskforce A: Emerging Scientific/Technical Issues
 - 1) What **new technical/scientific areas** should ASA pursue in the near future?
 - Veerle: machine learning / artificial intelligence
 - Metamaterials
 - Lots of crossover between all TCs
 - Kent: because of this crossover, we need to take a look at our TC structure, maybe we don't need a TC on metamaterials
 - (ii) Maybe there should be more focused meetings
 - (iii) Josh Gladden: more topical meetings could be really valuable
 - (iv) Maybe do 4 days plus 1 day topical day
 - (v) Kent: Do workshops of particular topics like the sonic boom and jet noise



(vi) Michelle: could we take a look at trends in special sessions and see what some of the more emerging technical areas?

2) Which **older areas** that now receive minimal attention should we revisit, and in what degree?

We have lost the aeroacoustics emphasis

3) Do some of our **traditional areas** need assistance to be more vital in the future?

c. Taskforce B: How can we better partner with industry/practitioners?

60% of ASA membership is industry, Only 40% of the Fellows are in industry. Is there a cultural shift that needs to happen?

- Amanda Hanford: we can't get to every meeting. Don't have the funding, the time, or the support
- Kent: I'm on the mentorship committee. Perhaps in industry there's not a lot of culture to nominate industry fellows
- Society cares a lot about Impact Factor for accepting members
- Need other ways to evaluate
- Membership committee needs more industry
- Thompson: been on it for a while as an industry member. Need to attach value to patents. Some patents are worthless, but the reviewers can judge the difference. By default, unless there's more industry representation on the membership committee the industry members will likely not be accepted
- Philippe Blanc-Benon: not just h-factor, patents have the same value in France

d. Taskforce D: How can we engage membership inbetween meetings?

- What if ASA created a fund to send speakers to regional meetings
- There's a lot of societies that have a distinguished lecture. Get a faculty member doing a sabbatical. It could be simulcast online.
- Gladden: great idea. A lot of us at universities have good acoustics talks every week. Set up a zoom meeting and there you go
- Physical Acoustics Summer School is the best thing PATC does. It's good to meet people in this environment



8. 179 Chicago – May 11-15 2020

- a. Abstract Submission Deadline is January 6
- b. ASA school precedes Chicago meeting: gives broad view of what acoustics is – covering several different TCs. Registration will open soon.
For students and early career (within 3 years of terminal degree)
Get yourself there, free transportation back to meeting hotel
\$50 registration fee, everything else is covered. Room and board is covered
- c. Special sessions
 - i. **Acoustic wave propagation through polydisperse scatterers** (Nick Ovenden and Eleanor Stride)
 - ii. **Acoustical Methods and Sensors for Challenging Environments** (Cristian Pantea and Dipen Sinha)
 - iii. **Acoustical measurements through optical principles** (Gregory Lyons, Thomas Moore)
 - iv. **Acoustofluidics** (Max Denis, Kedar Chitale, Charles Thompson, J. Mark Meacham)
 - v. **Infrasound** (Roger Waxler and Philip Blom)
 - vi. **Impact of Logan Hargrove** (Preston Wilson , Ralph Muehleisen, Veerle Keppens)

9. 180 Cancun (Mexico) – November 9-13

- a. Final special session forms due by Friday
- b. Preliminary special sessions submitted:
 - i. Particle velocity sensors and associated signal processing (Kirk Alberts)
 - ii. Wind noise reduction (Gregory Lyons)
- c. New proposed sessions:
 - i. Mark Hamilton: 2020 year of sound kicked off in January. Opening will be in Paris. “near-Closing ceremony”. Awards will be given out at this. It was suggested that joint with Michael Vorlander and Hamilton. Session name is “International Year of sound potpourri” we could change the name before Friday.
 - ii. Sonic boom and propagation (Joel Lonzaga and Alexandra Loubeau)

Note: we don't have to have joint sessions with Mexican Acoustical Society



- d. Email me (vkeppens@utk.edu) and I will respond with a link to a fillable Google Doc.

10. 181 Seattle, WA , June 7-11, 2021 (pending EC approval and successful site visit)) preliminary sessions?

Email me (vkeppens@utk.edu) and I will respond with a link to a fillable Google Doc.

- Will wait until we know where the meeting is
- Hamilton: it's pretty late not to know where the meeting will be
- Tyrone: lock this in by the end of the year. There's no other competing locations, so it is quite likely

11. PASS 2020: May 31-June 5th at The University of Mississippi

Applications due February 10

Schedule and application form:

<https://ncpa.olemiss.edu/pass-2020/>



- 30+ in the room have attended PASS
- 5 have taught there
- It is awesome
- Everything but transportation is included (room and board and lectures for \$250)
- 5-day long intensive period 2 lectures per day. Broad topics in physical acoustics. Evening social discussions. Lot of information in a short period of time
- Kent: engage early professionals in industry to have them count it toward professional development
- Gladden: that's an interesting idea. Veerle, Preston and Josh are leading it.
- ONR stopped funding it regularly, the ASA foundation has committed to fund PASS at 75% level.

12. Other Business?



- a. Tyrone Porter: Thursday at 2:15 is strategic champions meeting. The ideas presented here need to be brought up at this meeting. Eg. Topical meetings and zoom meetings outside of biyearly meetings. The champions won't know as much and the members need to be here to drive the conversation.
- b. Early career panel that is tomorrow. Intended for post-docs or very senior doctoral students and early career. "haven't gotten tenure yet" rep from DoD, NSF, and recipients of grants
 - i. Kevin Haworth, Josh from DoE and DoD, Tyrone NIH
 - ii. Need attendance for fruitful question
 - iii. 2 to 3:15 in Garden

13. Adjourn