

Structural Acoustics and Vibration Technical Committee

Open Meeting

174th ASA Meeting in New Orleans, Louisiana

5 Dec 2017

7:30 p.m.

Studio 7

Minutes

1. Call to Order (meeting called to order at 7:34 PM)
 - In attendance (21 people): Mohammad Afrough, Brian E. Anderson, Ben Beck, Anthony Bonomo, Pei-Tai Chen, Mark Cops, David Feit, Tyler Flynn, Jerry H. Ginsberg, Trevor Jerome, Matthew Kamrath, Robert M. Koch, Elizabeth Magliula, Katie Matlack, James G. McDaniel, Christina Naify, James Phillips, Benjamin Shafer, Scott D. Sommerfeldt, Christopher Struck, Alexey Titovich, Kuangcheng Wu
2. New Orleans Meeting Agenda (additions or other modifications)
No Agenda modifications proposed
3. Approval of the 173rd ASA Meeting Minutes from Boston, Massachusetts
Honolulu Minutes approved without modification
- 3B. Guest Speaker: Christopher Struck (ANSI/ ASA Standards Director) provided a helpful 20 minute brief on updates in ASA Standards

Meetings

4. 173rd Meeting/ “Acoustics ’17 Boston” Joint ASA/EAA meeting, 25-29 June 2017
Damian Doria, ASA Chair, Robert Koch, ASA Technical Program Chair

Winners of The Best Paper Awards for Students and Young Presenters for SAVTC at the 173rd ASA Meeting in Boston, MA:

1st Place

Alyssa T. Liem, Boston University

Improvement of acoustic and vibration models by temporal error metrics

2nd Place

Mark Cops, Boston University

Design of tunable acoustic metamaterials using 3D computer graphics

Thank you to Ben Shafer, with help from several other SAVTC folks, for organizing the student and young presenter paper awards in Boston (43 contestants!!).

5. 174th Meeting, New Orleans, Louisiana, 4-8 December 2017
Joel Mobley, Chair, Natalia Sidorovskaya, Technical Chair
 - a. 44 SAV papers total: 16 invited, 28 contributed
 - Thank you to the following SAVTC-related New Orleans special session organizers:
Michael Haberman, Elizabeth Magliula, Christina Naify, James Phillips, Benjamin Shafer.
 - Technical Program Organizer: Benjamin Shafer
 - Student and young presenter paper awards: Benjamin Shafer
 - There are **19** student and young presenter award contestants at this meeting
 - Please consider assisting Ben at this meeting in (a) providing your own reviews for student papers you are in the audience for as well as (b) potentially distributing/retrieving paper reviews in a given SAVTC session if Ben asks you to.
 - b. ASA broadcasting/recording 26 technical sessions (no longer any TC and Admin Meetings) at the New Orleans meeting (5th meeting now in effect)
 - Two SAV special sessions proposed for streaming and finally made the final list!!
 - Monday morning's "Standards in Structural Acoustics and Vibration"
 - Tuesday's "Acoustic Metamaterials I and II"
 - Update: Approximately 20 livestream registered viewers participated in early ASA New Orleans sessions
 - Recordings available for two weeks to those who register
 - Live streaming no longer tied to specific meeting rooms
 - Virtually no impact now on TPOM related planning
 - Still investigating a long-term approach/plan
 - c. Jerry Ginsberg has finished his textbook
 - "Acoustics – A Textbook for Engineers and Physicists"
 - Vol I (Fundamentals) & Vol II (Applications)
 - Book signing was Tuesday of ASA New Orleans
 - Congratulations, Jerry!
 - d. Society Luncheon and Lecture
 - Sponsored by College of Fellows
 - Held Thursday, 7 December at 12:00 noon (Riverview 1 on 41st floor)
 - Speaker Gabriela Gonzalez ("Listening to the Universe with Gravitational Waves")
 - Open to all attendees, \$30 per ticket.
6. 175th Meeting, Minneapolis, Minnesota, 7-11 May, 2018

Peggy Nelson and Bruce Olson, Co-Chairs, Andrew Oxenham, Technical Program Chair

a. **Final** Special Sessions:

Finalized in Boston.

- Metamaterials: Chairs, Christina Naify and Alexey Titovich
- ~~Noise and vibration in rotating machinery: Chair, Robert Koch~~
- Improving Education in Structural Acoustics and Vibration: Chairs, Brian E. Anderson and Scott D. Sommerfeldt
- Model Reduction for Structural Acoustics and Vibration: Chair, Kuangcheng Wu

b. Student and young presenter paper awards: Benjamin Shafer

c. TPO: Benjamin Shafer

d. ASA School 2018 (follows offerings in 2012, 2014, and 2016)

- 5-6 May 2018 in Chaska, Minnesota (just prior to ASA Minneapolis)
- Course for graduate students and early-career acousticians (i.e., within 3 years of terminal degree)
- Details:
 - \$50 Registration fee
 - Deadline for applications: 1 February 2018 (60 attendees max)
 - Hotel, course materials, & meals provided by ASA
 - Participant must be ASA Minnesota author/co-author

7. 176th Meeting, Joint ASA/CAA meeting in Victoria, British Columbia, Canada, 5-9 November 2018

Stan Dosso, Chair

a. **Finalize** Special Sessions:

Must be finalized in New Orleans.

- Metamaterials: Chairs, Christina Naify and Alexey Titovich
- Advances in thermoacoustics: Chairs, Matthew Kamrath and Robert Koch
- History of computational methods in structural acoustics and vibration: Chairs, Benjamin Shafer, James Phillips, and John Fahline
- ~~Video Based Vibration Measurements~~ Name change: Utilization of high-speed cameras to measure vibration: Chairs, Micah Shepherd and Trevor Jerome

- Advanced modeling techniques for computational acoustics: Chairs, Kuangcheng Wu, Elizabeth Magliula, and James Phillips
- b. Technical Program Organizer: Benjamin Shafer
 - c. Student and young presenter paper awards: Benjamin Shafer
8. 177th Meeting, Louisville, Kentucky, 13-17 May, 2019
Pavel Zahorik, Chair
- a. **Preliminary Special Sessions:**
SAVTC must set Preliminary Special Sessions in New Orleans. Sessions must be finalized in Minneapolis, May 2018.
 - Acoustic metamaterials: Chairs, Christina Naify and Alexey Titovich
 - Noise and vibration in rotating machinery: Chairs, Robert Koch and Elizabeth Magliula
 - Novel damping treatments: Chairs, Ben Shafer, Ben Beck, and Hubert Hall
 - Smart materials for acoustics and vibration: Chair, Katie Matlack
 - Vibration reduction for extraordinarily sensitive applications: Chairs, James Phillips and Mohammad Afrough
 - b. TPO: Benjamin Shafer
 - c. Student and young presenter paper awards: Benjamin Shafer
9. Future meetings:
- 178th Meeting, San Diego, California, 30 November – 4 December 2019 (now final)
[“Flow-induced vibration and noise”: Chairs, Kuangcheng Wu and Robert Koch]
 - 179th Meeting, Chicago, Illinois, 11-15 May, 2020
 - 180th Meeting, Cancun, Mexico, Fall 2020
- Proposed and likely 182nd Meeting, Sydney, Australia, Fall 2021

Reports

10. Topics from the Technical Council Meeting:
 - JASA Editor-In-Chief (EIC) Report
 - Still seeking JASA special content articles (e.g., acoustic metamaterials, computational acoustics)
 - Also seeking TC views on specific “metrics” for publication success,
 - Early speed of review

- Downloads
 - Shelf life
 - Etc.
- ASA Strategic Leadership for the Future
 - ASA President reported on Taskforces 1-4, E.g.:
 - Taskforce 2 (Member Engagement and Diversity):
 - goal is to meet/approach 100% society participation in donations for the Campaign for Early Career Leadership
 - \$30K donated so far (of \$300K goal through Spring 2019)
 - Taskforce 4 (Financial Stewardship):
 - New Business Model: *Contracted* financial management and *elected* treasurer
 - Kiwi has been retained -- currently doing review of best practices
 - Monthly reports from ASA HQ
 - Elected Treasurer
 - EC to vote on revised Bylaws at ASA New Orleans
 - Vote from membership at business meeting at ASA Minneapolis
 - First election of Treasurer in Spring 2019
- ASA President reported on International Meetings Survey results:
 - 21% response rate
 - 4-5 years between international (outside US) meetings highest response option
 - ASA EC to vote to formalize this rate going forward
 - Survey purposely did NOT intend to include:
 - Meetings held in Canada or Mexico
 - Joint meetings still held within the US
 - Possible issues with those ASA members who cannot or will not be able to attend more frequent international meetings (e.g., students, government)
 - Push to connect with other acoustical societies (for joint meetings)
- Education Report (Keeta Jones):
 - Acoustics Program Database
 - ASA Member Career Profiles

11. Report from Student Council: Tyler “TJ” Flynn

- Student Events in New Orleans:
 - New Student Orientation ~ 65 students
 - Student Meet & Greet ~ 77 students
 - Student Outing (at Alibi Bar) ~ 52 students
 - Student Reception ~ 70 attendees
 - Three NCAC Student Travel Awards presented
 - 26 Tickets to the Society Luncheon were raffled off (1 per TC and 13 randomized) and students were paired with Fellows.
 - “Grant & Fellowship Panel” Special Session (Wednesday) ~ 25 attendees

- Article about the ASA Student Council history and mission will go out in the next issue
- EdComm video contest
 - Soliciting 4-7 minute video about an acoustics topic: Deadline TBD but after Minneapolis
 - 1st place: \$1000, 2nd place: \$750, 3rd place: \$500,
- Call for applications for the next Student Mentor Award will go out soon
- The ASA Student Council is maintaining a growing web presence
 - Facebook (1065 followers), Twitter (605 followers), LinkedIn (92 followers)

The Student Council is looking for:

- Students Meet Members for Lunch → 70 students matched with 58 members!
 - Any members who are not signed up, but are interested in participating in future meetings should contact T.J. Flynn (t.jayflynn@gmail.com)
 - An Introduction to Technical Committees Session for new students will be held at the Minneapolis Meeting. Robert Koch will provide a 7 minute presentation discussing what the SAVTC is and what it does.
 - Consider forwarding post-doc, job, or event information to T.J. Flynn (t.jayflynn@gmail.com) to include on Student Council website
12. Report from Medals and Awards Committee: James Phillips
 13. Report from Membership Committee: Robert Koch
 - Kai Ming Li stepped down as rep, still would like to find new Fellow rep
 - Robert Koch will serve as official SAVTC rep until replacement named
 14. Report from ASACOS: Robert Koch
 - Robert Koch to provide 'Standards Update' PowerPoint brief
 15. Report from SAVTC Liaison to the Education in Acoustics TC: Matthew Kamrath
 - Acoustics Program Database -> Updating on ExploreSound website. Members are encouraged to complete (10 min) form if their program is not listed.
 - Asking that members submit New Member catalogues
 - Need volunteers for Hands-on outreach event Wednesday of New Orleans Meeting
 - Update: Matthew Kamrath just completed his PhD degree immediately prior to the ASA New Orleans meeting. Congratulations, Dr. Kamrath!!
 16. Report on SAVTC webpage update - Brian Anderson
 - Recall no SAVTC Web Maintenance Technical Initiative submitted for 2018-19
 17. Technical Initiatives for 2018-19
 - Note: Robert Koch submitted a \$1,500 Technical Initiative for the May 2018 Minneapolis meeting '*to support the funding of invited speakers to ship equipment for the SAVTC "Improving Education in SAV" Special Session.*' Update: Special Session

chairs agreed to advertise the availability of these funds to invited speakers in their session.

- Update: No new Technical Initiatives were discussed or proposed during the meeting.

18. Robert Koch is open to all content contributions for two SAVTC-related Papers he will be presenting at ASA Minneapolis:

- ID Tutorials session: “*Hot Topics in SAV*” (to concentrate on SAV advanced Physics-Based Modeling (PBM) and novel materials in SAV)
- ID Student Council session: “*Introduction to the SAV Technical Committee*”
- Update: Robert Koch welcomes material/input from all SAVTC members for both of these 20-minute Hot Topics and 7-minute Introductory invited talks.

19. Names of Reappointments and New appointments to SAVTC members for 2018-2021 term are due to ASA HQ in January 2018. Please see/contact Robert Koch if:

- You are an SAVTC member whose term expires in 2018 and you do not wish to be reappointed as a SAVTC member, or
- You wish to become an SAVTC member (highly encouraged!)
- Update: Several meeting attendees approached Robert Koch following the meeting to request membership in the SAV TC. Following discussions, Robert Koch agreed to welcome all on-board the committee.

20. Election for new SAVTC Chair for the 2018-2021 term to occur January-February 2018 (ASA distributed ballots).

21. New Business

No new business was proposed or discussed.

22. Adjourn (Meeting adjourned at approximately 9:15PM)