

Structural Acoustics and Vibration Technical Committee

Open Meeting

173rd ASA Meeting in Boston, Massachusetts

26 June 2017

8:00 p.m.

Hynes Room 312

Agenda

1. Call to Order
2. Boston Meeting Agenda (additions or other modifications)
3. Approval of the 172nd ASA Meeting Minutes from Honolulu, Hawaii

Meetings

4. 172nd Meeting, Honolulu, Hawaii, 28 November – 2 December, 2016
David Adams and Whitlow Au, Co-chairs

Winners of The Best Paper Awards for Students and Young Presenters for SAVTC at the 172nd ASA Meeting in Honolulu:

1st Place

Colby Cushing, University of Texas

Experimental validation of the underwater sound focusing properties of a pentamode gradient index metamaterial lens

2nd Place

Alyssa T. Liem, Boston University

Estimation of material properties using vibration magnification

Thank you to Ben Shafer for organizing the student and young presenter paper awards in Honolulu.

5. 173rd Meeting/ “Acoustics ’17 Boston” Joint ASA/EAA meeting in Boston, MA, 25-29 June 2017

Damian Doria, ASA Chair, Robert Koch, ASA Technical Program Chair

- a. 158 SAV papers total: 43 invited, 115 contributed (including 14 poster format)

- Thank you to the following SAVTC-related special session organizers:
Brian Anderson, Donald Bliss, Kenneth Cunefare, Linda Franzoni, Robert Koch,

Christina Naify, James Phillips, Marcel Remillieux, Dan Russell, Benjamin Shafer, Micah Shepherd

- Technical Program Organizers: Robert Koch and Benjamin Shafer
 - Student and young presenter paper awards: Benjamin Shafer
 - There are **40** student and young presenter award contestants at this meeting
 - This is a **VERY** large number of entrants (AKA: “a good problem to have!”) and we must assist Ben at Boston in overseeing paper reviews. Volunteers?
- b. ASA's Students Meet Members for Lunch program
- New approach at Jacksonville led to large increase in number of interested students ever since
 - David Blackstock requesting assistance
 - Member volunteer sign-up sheet to be passed around
- c. ASA broadcasting/recording 29 sessions and several TC and Admin Meetings at the Boston meeting
- Boston SAV special session proposed streaming but did not make the final list
 - Recordings available for two weeks to those who registered
 - Live streaming no longer tied to specific meeting rooms
 - Virtually no impact now on TPOM related planning
6. 174th Meeting, New Orleans, Louisiana, 4-8 December 2017
Joel Mobley, Chair, Natalia Sidorovskaya, Technical Chair
Scott Sommerfeldt & Kent Gee, Co-Chairs, Brian Anderson & Jon Blotter, Co-Technical Chairs
- a. **Final Special Sessions:**
Finalized in Honolulu.
- **Acoustic Metamaterials:** Chair, Christina Naify
 - **Standards in structural acoustics and vibration:** Chair, Benjamin Shafer (ASACOS Standards committee has agreed to co-sponsor the session)
 - **SAV applications of FEA, BEA, and SEA Computational Methods:** Co-chairs, James Phillips and Elizabeth Magliula
 - **Active Control of Sound and Vibration Fields:** Co-chairs, Scott D. Sommerfeldt and Jon D. Blotter
- b. Student and young presenter paper awards: Benjamin Shafer
- c. TPO: Benjamin Shafer (New Orleans Virtual TPOM: August 2017)

d. Notes on New Orleans Meeting:

- New Orleans meeting back to running Monday – Friday (not Boston’s Sunday-Thursday)
(thus our SAV TC meeting in New Orleans back to Tuesday evening)
- Usual 20 minutes Invited, 15 Contributed paper lengths

7. 175th Meeting, Minneapolis, Minnesota, 7-11 May, 2018
Peggy Nelson and Bruce Olson, Co-Chairs

a. **Finalize** Special Sessions:

Must be finalized in Boston.

- Metamaterials: Chair, Christina Naify
- Noise and vibration in rotating machinery: Chair, Robert Koch
- Education and Outreach in Structural Acoustics and Vibration: Chairs, Brian E. Anderson and Scott D. Sommerfeldt
- Model Reduction for Structural Acoustics and Vibration: Chair, Kuangcheng Wu
- Applications of smart materials for acoustics and vibration (or something similar)??: Chair(s), ?? ??

b. Technical Program Organizer: Benjamin Shafer

c. Student and young presenter paper awards: Benjamin Shafer

8. 176th Meeting, Joint ASA/CAA meeting in Victoria, British Columbia, Canada, 5-9
November 2018
Stan Dosso, Chair

a. **Preliminary** Special Sessions:

SAVTC must set Preliminary Special Sessions in Boston. Sessions must be finalized in New Orleans, December 2017.

- Metamaterials: Chair, Christina Naify
- XXX Chair(s):
- XXX Chair(s):
- XXX Chair(s):

Brainstormed Special Session Topic Ideas:

- Site Characterization (Earl Williams)
- NDE (theoretical) /Civil Infrastructure (application) (Jinying Zhu)
- History of a specific SAV technical area
- Thermoacoustic technology

- Vibration absorber technology
- Advances in SAV sensing and/or actuation
- Nanotechnology in SAV
- Novel damping treatments again
- Real-world case studies again
- SAV testing, in some respect
- others ?

b. TPO: Benjamin Shafer

c. Student and young presenter paper awards: Benjamin Shafer

9. Future meetings:

177th Meeting, Louisville, Kentucky, 13-17 May, 2019

178th Meeting, TBD, Fall, 2019

179th Meeting, Chicago, Illinois, 11-15 May, 2020

180th Meeting, Cancun, Mexico, Fall 2020

Note: ICA proposes 2019 to be The International Year of Sound

Reports

10. Topics from the Technical Council Meeting:

- ASA Strategic Leadership for the Future update
 - Champions Meeting this Wednesday, 28 Jun, 2-4PM, in Room 101
 - Exec Council approved \$30,000 for ‘Early Career’ Conference Travel
 - Early Career defined as ≤ 10 years since last degree
 - ASA Strategic Plan has money behind it, not just ideas!
 - Exec Council also approved \$300,000 fundraising goal to establish an endowment for ‘Early Career Leadership Fellows’ (two awards per year)
 - \$3,000 award + \$1,500 conference travel per awardee
 - Look for fundraising requests on this if interested

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

12. Report from Medals and Awards Committee: James Phillips (officially relieves Sabih Hayek as SAV TC rep following trial run)

13. Report from Membership Committee: TBD

- Kai Ming Li stepped down as rep, still need to find new Fellow rep
- Need a replacement Fellow SAVTC rep for Membership Meeting. Any volunteer?
 - (Meeting occurs on Tuesday at 12:00PM in Room 104)
- Robert Koch will serve as SAVTC rep at Boston Membership Meeting

14. Report from ASACOS: Robert Koch

15. Report from new SAVTC Liaison to the Education in Acoustics TC: Matthew Kamrath
(Many thanks to T.J. Flynn for filling in for Matthew at Honolulu meeting)
16. Report on SAVTC webpage update - Brian Anderson
 - Recall Brian funded by SAVTC Web Maintenance Technical Initiative (\$500 per year for 2016 and 2017). Update for 2018-19?
17. Technical Initiatives for 2017-18
18. New Business
19. Adjourn