

## **Structural Acoustics and Vibration Technical Committee**

Open Meeting

174<sup>th</sup> ASA Meeting in New Orleans, Louisiana

5 Dec 2017

7:30 p.m.

Studio 7

### **Agenda**

1. Call to Order
2. New Orleans Meeting Agenda (additions or other modifications)
3. Approval of the 173<sup>rd</sup> ASA Meeting Minutes from Boston, Massachusetts

### **Meetings**

4. 173<sup>rd</sup> 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 173<sup>rd</sup> 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. 174<sup>th</sup> 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 Organizers: 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 25 technical sessions (no longer any TC and Admin Meetings) at the New Orleans meeting
- 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"
  - 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. Society Luncheon and Lecture
- Sponsored by College of Fellows
  - Held Thursday, 7 December at 12:00 noon (Riverview 1 on 41<sup>st</sup> floor)
  - Speaker Gabriela Gonzalez ("Listening to the Universe with Gravitational Waves")
  - Open to all attendees, \$30 per ticket.
6. 175<sup>th</sup> Meeting, Minneapolis, Minnesota, 7-11 May, 2018  
Peggy Nelson and Bruce Olson, Co-Chairs
- a. **Final** Special Sessions:  
Finalized in Boston.
- Metamaterials: Chair, Christina Naify
  - ~~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. 176<sup>th</sup> 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

b. Technical Program Organizer: Benjamin Shafer

c. Student and young presenter paper awards: Benjamin Shafer

8. 177<sup>th</sup> Meeting, Louisville, Kentucky, 13-17 May, 2019

??, Chair

a. **Preliminary** Special Sessions:

SAVTC must set Preliminary Special Sessions in New Orleans. Sessions must be finalized in Minneapolis, May 2018.

- Metamaterials: Chair, Christina Naify (and ??)
- Noise and vibration in rotating machinery: Chair, Robert Koch (and ??)
- XXX Chair(s):
- XXX Chair(s):
- XXX Chair(s):

Previously Brainstormed Special Session Topic Ideas:

- Applications of smart materials for acoustics and vibration (or something similar)?

- Site Characterization
- NDE (theoretical) /Civil Infrastructure (application) (Jinying Zhu)
- Digital Image Correlation (3D displacement, transient data gathering,...) (Greg McDaniel)
- 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:

178<sup>th</sup> Meeting, San Diego, California, 30 November – 4 December 2019 (now final)

179<sup>th</sup> Meeting, Chicago, Illinois, 11-15 May, 2020

180<sup>th</sup> Meeting, Cancun, Mexico, Fall 2020

Proposed 182<sup>nd</sup> Meeting, Sydney, Australia

## Reports

10. Topics from the Technical Council Meeting:

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

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 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

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.*’
- Others?

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

18. New Business

19. Adjourn