

# Structural Acoustics and Vibration Technical Committee

Open Meeting

171st ASA Meeting in Salt Lake City, Utah

24 May 2016

7:30 p.m.

Salon G.

## Agenda

1. Call To Order
2. Salt Lake City Meeting Agenda (additions or other modifications)
3. Approval of the 170<sup>th</sup> ASA Meeting Minutes from Jacksonville, Florida

### Meetings

4. 170<sup>th</sup> Meeting, Jacksonville, FL, November 2-6, 2015  
Richard Morris, Chair

Winners of The Best Paper Awards for Students and Young Presenters for SAVTC at the 170<sup>th</sup> ASA Meeting in Jacksonville:

#### 1st Place

David Torello, Georgia Institute of Technology

Characterization of air-coupled ultrasonic receivers for nonlinear Rayleigh wave nondestructive evaluation

#### 2nd Place

Ryan Salmon, Georgia Institute of Technology

Solid-liner suppressor design, construction, and development

Thank you to James Phillips for stepping up and organizing the student and young presenter paper awards in Jacksonville in Benjamin Shafer's absence.

5. 171<sup>st</sup> Meeting, Salt Lake City, Utah, May 23-27, 2016  
Scott Sommerfeldt, Chair, Brian Anderson, Co-Technical Chair
  - a. 43 SAV papers total: 20 invited, 23 contributed
    - Thank you to the following special session organizers: Micah Shepard, Benjamin Shafer, James Phillips, Hasson Tavossi, Elizabeth Magliula, Robert Koch, Dan Russell, and Brian Anderson
    - Technical Program Organizer: Benjamin Shafer

- Student and young presenter paper awards: Benjamin Shafer
  - There are **12** student and young presenter award contestants at this meeting
- b. Society Luncheon and Lecture, Thursday, 11:45 – 1:30 pm, Joseph Smith Memorial Building, 10th Floor (6-min walk from Marriott)
- Professor Jeremy Grimshaw, Associate Dean in College of Fine Arts and Communications, Brigham Young University
    - “Exactly Out of Tune: Acoustics, Aesthetics, Culture, and Ritual in Balinese Gamelan Music”
    - New policy: Member/student pairing now made during online pre-registration
- c. ASA's Students Meet Members for Lunch program
- New “approach” led to large increase in number of interested students for Jacksonville
  - Call out from ASA to assist David Blackstock. See Elaine Moran if interested
  - New pairing process supposedly to be developed for Salt Lake City (news?)
- d. ASA broadcasting/recording 19 sessions, two TC Meetings, and the Education In Acoustics admin committee meeting at the Salt Lake City meeting
6. 172<sup>nd</sup> Meeting, Honolulu, Hawaii, November 28–December 2, 2016  
David Adams and Whitlow Au, Co-chairs
- a. **Final Special Sessions:**  
Finalized in Jacksonville and now coordinated with ASJ co-chair counterparts.
- **Building vibration analysis, measurement and mitigation:** Co-chairs, James Phillips and Hasson Tavossi
  - **Dynamics of ribbed structures:** Co-chairs, Andrew Hull and Elizabeth Magliula
  - **Fluid flow induced vibration and noise:** Co-chairs, Kuangcheng Wu and Robert Koch
  - **Metamaterials:** Co-chairs, Jeff Cipolla, Christina Naify, and Michael Haberman
  - **Non-contact vibration excitation and sensing techniques:** Co-chairs, Scott Sommerfeldt and Brian Anderson
- b. Student and young presenter paper awards: Benjamin Shafer
- c. TPO: Benjamin Shafer (Honolulu virtual TPOM: 10-11 Aug 2016)
- d. Upcoming 2016 dates for the Honolulu TPOM:
- 6 June: Call for Papers
  - 11 July: Abstract deadline

- 12-28 July: TPOs work with session conveners to make preliminary schedules for each session
- 29 July: each TC submits their draft sessions schedules (preferred day/time, invited and contributing speakers in order)
- 29 July - 5 Aug: Tech Chair (Bruce Howe) with advisors, takes these and formulates the first draft meeting schedule in ScholarOne, iterating as needed with individual TPOs and conveners.
- 5-8 August (2 day meeting): "pre-virtual TPOM meeting" - Tech Program Chair (Bruce) meets more formally with Co-chairs of meeting and other advisors to finalize draft complete schedule and complete entry in ScholarOne by 8 August.
- 10-11 August: the formal Virtual TPOM with all TPOs from ASA and ASJ attending, Tech chair, meeting co-chairs, etc. Final product is the final schedule on ScholarOne. "In-person" TPOM held at same time in hotel, including tour and handling/discussing/organizing other items; the 5+ ASJ TPOs and others.

7. 173<sup>rd</sup> Meeting/Acoustics 17, Joint ASA/EAA meeting in Boston, MA, Spring 2017  
Damian Doria, ASA Chair, Robert Koch, Technical Chair

a. **Finalize** Special Sessions:

Must be finalized in Salt Lake City and coordinated with EAA counterparts.

- Acoustic metamaterials and phononic crystals: Co-chairs, Christina Naify and Yun Jing (PA TC) (EAA co-chair Jose Sanchez-Dejesa from Valencia Polytechnic University)
- ~~Phononic crystals: Co-chairs, Christina Naify (suggested EAA co-chair Jose Sanchez-Dejesa from Valencia Polytechnic University)~~
- ~~Acoustic Metasurfaces: Co-chairs, Christina Naify (suggested EAA co-chair Jose Sanchez-Dejesa from Valencia Polytechnic University)~~
- Vibration of sports equipment: Chair, Dan Russell
- Novel techniques for nondestructive evaluation: Co-chairs, Brian Anderson and Marcel Remillieux (EAA co-chair Sylvain Hauptert)
- Energy methods in structural acoustics and vibration: Co-chairs, Don Bliss and Linda Franzoni
- Groundborne noise and vibration from transit systems: Chair, James Phillips  
[Update: James plans to find a local/Boston-area co-chair for this session?]
- Novel Treatments in Vibration Damping: Chair, Kenneth Cunefare (EAA co-chair Manuel Collet)
- Numerical Methods and Benchmarking in Computational Acoustics: Chair, Robert Koch (EAA co-chairs Manfred Kaltenbacher and Steffen Marburg)

b. The TPOC will consist of the newly elected 2015 Technical Committee Chairs plus the TC chairs with terms to 2016 and 2017.

c. Technical Program Organizer: Benjamin Shafer

d. Student and young presenter paper awards: Benjamin Shafer

8. 174<sup>th</sup> Meeting, New Orleans, Louisiana, Fall 2017

XXX Chair

a. **Preliminary** Special Sessions:

SAVTC must set Preliminary Special Sessions in Salt Lake City. Sessions must be finalized in Honolulu, Fall 2016.

- Metamaterials: Chair, Christina Naify ?
- Standards in Structural Acoustics and Vibration: Chair, Benjamin Shafer ?
- XXX
- XXX
- XXX
- XXX

Brainstormed Special Session Topic Ideas:

- State-of-the-art SAV applications of FEA, BEA, and SEA
- Active noise and vibration control
- Noise and vibration in rotating machinery (e.g., motors, gears, pumps, ....)
- others ?
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b. TPO: Benjamin Shafer (Virtual TPOM on 10 August 2017)

c. Student and young presenter paper awards: Benjamin Shafer

9. Future meetings:

175<sup>th</sup> Meeting, Minneapolis, Minnesota, 7-11 May, 2018

176<sup>th</sup> Meeting, Victoria, British Columbia, Canada, 6-9 November 2018

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

178<sup>th</sup> Meeting, TBD, Fall, 2019

179<sup>th</sup> Meeting, Chicago, Illinois, Spring, 2020

180<sup>th</sup> Meeting, Cancun, Mexico, Fall 2020  
181<sup>st</sup> Meeting, XX, XX, Spring 2021

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

- ASA Louisville to possibly tie in with this theme

## Reports

10. Topics from the Technical Council Meeting:

- ASA Strategic Leadership for the Future
- No more reimbursements of outside food/drink at TC meetings
- ASA broadcasting/recording 19 sessions plus TC/Admin meetings at SLC meeting
  - TCs are responsible for identifying which sessions to broadcast/record
  - No SAVTC registrants
  - Noise TC is broadcasting live Thurs PM meeting
  - Requires a consent form for each speaker (if declined, just hole in stream)
  - No cost (yet) to access streamed sessions
- JASA Editor-in-Chief Report
- Revised Technical Initiatives
  - For 2016 (Honolulu meeting) and 2017 (Boston meeting), TC Council voted for an extra \$3K per TC budgeted for Invited Speaker travel

11. Report from Student Council: Matthew Kamrath (This is Matt's last ASA meeting as SAV TC Student Council Rep, new rep going forward is ... ?!)

12. Report from Medals and Awards Committee: James Phillips (relieving Sabih Hayek as SAV TC rep through Spring 2017)

13. Membership Committee: Kai Ming Li (stepping down as rep, need to find new Fellow rep!)

- Earl Williams has volunteered to attend the SLC Membership Committee meeting Wednesday, 12-3 PM, Room 1532

14. ASACOS: Robert Koch

15. NEW: Report from SAVTC Liaison to Education in Acoustics TC: Matthew Kamrath

Note: Education in Acoustics TC meets Wed PM (i.e., *after* SAVTC meeting)

16. SAVTC webpage update - Brian Anderson

- Brian now funded by Web Maintenance Technical Initiative (\$500 per year for 2016 and 2017)
- Some website content slowly coming in, but needs more:
  - I.e., "Intro to SAVTC" Brief, James Phillips

17. SAVTC to Publish SAV TC Report for Fall 2016 issue of Acoustics Today:

- Intent is to discuss TC's purpose and interests, and careers in SAV
- Articles cover science AND "how people come to the field"
- Approx. only 2,000 words
- Authors:
  - a) Christina Naify
  - b) Robert Koch

18. Technical Initiatives for 2016

- Technical Initiative approved for Brian Anderson for SAVTC Web maintenance
  - \$500 for each 2016 and 2017 calendar years

19. Early Career Acoustician Retreat 2016

- Arising from ASA Strategic Plan Task Force 2 charged with increasing membership engagement and diversity, the Early Career Acoustician Retreat (EAR) organized to follow the Salt Lake City meeting.
- EAR 2016 is two-day workshop aimed at developing leadership and networking skills for early career professionals in the field of acoustics, allowing participants to socialize with fellow early career acousticians, expand their leadership and networking skills, learn more about the society, and contribute to the future of ASA.
- A pre-session to EAR will be offered from 4:00 - 5:15 pm on Friday May 27. A representative of each TC will be asked to make a very brief, "elevator-speech style", presentation to the participants, describing the interests of members of the TC and the type of professionals who are members of the TC. Following these brief presentations, the TC reps will be asked to stay for a reception to meet the EAR participants and optionally attend the dinner that follows at 5:30 PM
- Earl Williams has graciously volunteered to represent the SAV at the pre-EAR session Friday evening.

20. New Business

21. Adjourn