

Structural Acoustics and Vibration Technical Committee

Open Meeting

176th ASA Meeting in Victoria, Canada

6 Nov 2018

7:30 p.m.

Saanich 1/2 (Victoria Conference Centre)

Agenda

1. Call to Order
2. Victoria Meeting Agenda (additions or other modifications)
3. Approval of the 175th ASA Meeting Minutes from Minneapolis, Minnesota

Meetings

4. 175th Meeting, Minneapolis, Minnesota, 7-11 May, 2018
Peggy Nelson and Bruce Olson, Co-Chairs, Andrew Oxenham, Technical Program Chair

Winners of The Best Paper Awards for Students and Young Presenters for SAVTC at the 175th ASA Meeting in Minneapolis, MN:

1st Place

Tyler Flynn, University of Michigan, Ann Arbor

Remote acoustic detection of localized delamination in vibrating composite layered plates

2nd Place

Matthew Kelsten, Rutgers University

Optimal absorption associated with wall impedance in acoustic waveguides

Thank you to Ben Shafer, with help from several other SAVTC folks, for organizing the student and young presenter paper awards in Minneapolis (11 contestants!).

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

Stan Dosso, Chair

- a. 45 SAV papers total: 19 invited, 26 contributed (6 posters)

- Thank you to the following SAVTC-related Victoria special session organizers:

John Fahnlne, Trevor Jerome, Matthew Kamrath, Robert Koch, Elizabeth Magliula, Christina Naify, James Phillips (2), Benjamin Shafer (2), Micah Shepherd, Alexey Titovich, Kuangcheng Wu. (*Note: Mistake made in Victoria*)

Program & App mistakenly naming co-organizers for 3pSA Session on “History of Computational Methods in Structural Acoustics and Vibration” Special Session. 3pSA Co-organizers SHOULD be listed as James Phillips, Ben Shafer, and John Fahnlne. Sorry, guys!)

- Technical Program Organizer: Benjamin Shafer
 - Student and young presenter paper awards: Benjamin Shafer
 - There are **6** 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 no longer live-streaming technical sessions (at Victoria or thereafter)
 - All talks offered opportunity at Victoria to record presentation slides and audio (authors must give approval during abstract upload stage)
 - ASA contracted company for this task at ~\$20K
 - Recordings made available free to all conference registered attendees
 - Recordings to be made available at cost (e.g., ~one-day registration fee) for others
 - c. Women in Acoustics Luncheon
 - Held Wednesday, 7 November at 11:45 AM -1:45 PM (Bengal (@ Fairmont))
 - Open to all attendees, \$30 per ticket (students \$15 per ticket).
 - d. Society Luncheon and Lecture
 - Sponsored by College of Fellows
 - Held Thursday, 8 November at 12:00 noon – 2:00 PM (Crystal Garden (VCC))
 - Program speaker is Bryan Gick (PhD, Yale U. ‘99), Professor and Guggenheim Fellow in the Department of Linguistics at the University of British Columbia, and a Senior Scientist at Haskins Laboratories. His presentation is titled “If Bodies Could Talk.”
 - Open to all attendees, \$30 per ticket.
6. 177th Meeting, Louisville, Kentucky, 13-17 May 2019
Pavel Zahorik, Chair
- a. **Final** Special Sessions:
Finalized in Minneapolis.
 - 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 and Bogdan Popa
- Vibration reduction for extraordinarily sensitive applications: Chairs, James Phillips and Mohammed Afrough

b. Student and young presenter paper awards: Benjamin Shafer

c. Technical Program Organizers: Benjamin Shafer and Robert Koch
 → to occur in late Dec/ early Jan 2019 timeframe
 → Virtual-TPOM for Louisville on 24 Jan 2019

7. 178th Meeting, San Diego, California, 30 November – 4 December 2019
 Peter Gerstoft, Chair

a. **Finalize** Special Sessions:
 Must be finalized in Victoria.

- Acoustic metamaterials: Chairs, Christina Naify and Co-Chair TBD
- Flow-induced vibration and noise: Chairs, Kuangcheng Wu and Robert Koch
- Novel methods for energy dissipation in structures: Chairs, Jerry Ginsberg and Greg McDaniel (Greg volunteered in absentia – still to be confirmed)
- Novel methods and computational analysis of vehicles: Chairs, Ben Shafer and Michael T. Rose
- Computational methods for time domain modeling in SAV: Chair, Anthony Bonomo
- Structural acoustics and vibration in 3D printed materials: Chairs, Alexey Titovich, Stephanie G. Konarski (Stephanie volunteered in absentia by Anthony Bonomo – still to be confirmed)

b. Technical Program Organizers: Benjamin Shafer and Robert Koch

c. Student and young presenter paper awards: Benjamin Shafer

8. 179th Meeting, Chicago, Illinois, 11-15 May 2020
 ??, Chair

a. **Preliminary** Special Sessions:
 SAVTC must set Preliminary Special Sessions in Victoria. Sessions must be finalized in Louisville, May 2019.

- Acoustic metamaterials: Chairs, Christina Naify and Alexey Titovich

- XXX Chair(s):
- XXX Chair(s):
- XXX Chair(s):

Previously Brainstormed Special Session Topic Ideas:

- Applications of smart materials for acoustics and vibration
- 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
- Real-world case studies
(Potential issues with getting commercial/industry speakers in addition to academia. How to target industry?)
- SAV testing, in some respect
- Ground vibration
- Virtual reality with SAV
- Others ?
-

b. Technical Program Organizers: Benjamin Shafer and Robert Koch

c. Student and young presenter paper awards: Benjamin Shafer

9. Future meetings:

180th Meeting, Cancun, Mexico, 9-13 November 2020

181st Meeting, Still TBD, Spring 2021

182nd Meeting, Sydney, Australia, Fall 2021

Reports

10. Topics from Monday's Victoria Technical Council Meeting:

- JASA Editor-In-Chief (EIC) Report
 - SAVTC still needs Coordinating Editor (CE) replacement for Brian Anderson
- 'Outreach to Industry' thrust update / SAVTC discussion
- 'Remote Presentation' Policy / SAVTC discussion
- 'Meeting Photography' Policy / SAVTC discussion

- ASA Strategic Leadership for the Future updates:
 - ASA Summit scheduled in Feb. 2019
 - Survey on Demographics sent on Oct. 29
 - Survey on government relations to come soon on what ASA should or should not be doing with advocacy
 - ASA Campaign for Early Career Leadership donations continues
 - Recall: In Minneapolis, Exec Council approved a petition to form “Computational Acoustics” Technical Specialty Group (TSG):
 - Keith Wilson first Chair
 - TSG has 3-year ‘evaluation’ period to decide yes/no on becoming TC
 - 54 people signed on for interest in this TSG (almost half are non-ASA members)
 - Starting with TSG meeting and sessions organized in Victoria
 - As TSG, Computational Acoustics chair on Tech Council (yet no vote / ex officio)
 - Note that the Signal Processing started in the same manner.
11. Report from Student Council: Tyler “TJ” Flynn
(at his final ASA SAVTC meeting as SAVTC Student Council rep. Thanks so much for your excellent work for our TC, TJ!)
12. Report from Medals and Awards Committee: James Phillips
13. Report from Membership Committee: Robert Koch
- EC proposal to split Membership Committee into two Committees
 - Fellowship and Member Advancement Committee
 - Member Engagement Committee
 - A Get-Involved website link is now under ASA Membership – “Get Involved!”
 - An Electronic Membership form also being developed
 - Still would like to find eventually new Fellow SAVTC Membership rep
 - Robert Koch serving as official SAVTC Membership rep until replacement named
14. Report from ASACOS: Robert Koch
- Search for new ASA Standards Manager underway (since June 2018 resignation)
 - JASA has now approved an ASA Standard’s History article
 - To be published within 1-2 JASA cycles
 - Old photos, interesting and easy read, look for it!
 - Robert Koch just requested to be Individual Expert (IE) on **ANSI ISO/TC 108/SC 2 Measurement and Evaluation of Mechanical Vibration and Shock as Applied to Machines, Vehicles and Structures.**
15. Report from SAVTC Liaison to the Education in Acoustics TC: Matthew Kamrath
16. Report on SAVTC webpage– Ryan Harne is our new volunteer (likely hasn’t started work yet).

- Robert Koch will submit a SAVTC Web Maintenance Technical Initiative at Victoria for 2019-20 (\leq \$500 per year for two years)

Other SAVTC-Relevant News/Issues/Requests:

17. The following will be among a new appointment request to ASA (made in early 2019) to become official SAVTC members for the 2019-2022 term:

- Ryan Harne (harne.3@osu.edu)
- Jason Smoker (jason.smoker@navy.mil)
- Michael Rose (rose.michael@byu.edu)

Note that Eric Unger has requested to be retired from the committee due to difficulty in traveling. Best of luck, Eric, for your long years of service to our committee and best of luck to you in the future!

Please see/contact Robert Koch if:

- You wish to become an SAVTC member (highly encouraged!), or
- You are an SAVTC member whose term expires in 2019 and you do not wish to be reappointed as a SAVTC member

18. Request from Panel on Public Policy Chair (Ed Walsh) for SAVTC Rep:

19. Technical Initiatives for 2018-19

- Robert Koch to submit a \$500 per year Technical Initiative at this Victoria meeting to support web maintenance and improvement and content loading for the SAVTC website.
- Others? (e.g., short courses, addendum for upcoming special sessions, external conference development/participation, Development/assembly of SAV software, etc.)

20. New Business

21. Adjourn