

# Structural Acoustics and Vibration Technical Committee

Open Meeting

176<sup>th</sup> ASA Meeting in Victoria, Canada

6 Nov 2018

7:30 p.m.

Saanich 1/2 (Victoria Conference Centre)

## Minutes

1. Call to Order (meeting called to order at 7:34 PM)
  - In attendance (24 people): Brian E. Anderson, Anthony Bonomo, Pei-Tai Chen, Colby Cushing, David Feit, Tyler Flynn, Jerry H. Ginsberg, Caleb Goates, Trevor Jerome, Matthew Kamrath, Robert M. Koch, Stephanie Konarski, Christina Naify, Allan Pierce, Bogdan Popa, David Raudales, Daniel A. Russell, Benjamin Shafer, Micah Shepherd, Jason Smoker, Scott D. Sommerfeldt, Alexey Titovich, Sam Wallen, Kuangcheng Wu
2. Victoria Meeting Agenda (additions or other modifications)  
No Agenda modifications. proposed
3. Approval of the 175th ASA Meeting Minutes from Minneapolis, Minnesota  
Minneapolis Minutes approved without modification

## 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 175<sup>th</sup> 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!).

→ During the meeting, Ben Shafer asked if there were any SAVTC members who would like to volunteer next time. Jason Smoker volunteered.

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 Fahnline, 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 Fahnline. Sorry, guys!*)

→ Kuangchang Wu noted that people were still registering at the beginning of his 8:00 Monday SAVTC Victoria session and missed session time. He asked could registration be available on Sunday? Asked was that the case for previous meetings?

Update: Robert Koch brought this up at Victoria’s Friday Technical Council meeting and the result was that Sunday Registration would be reinstated.

- 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  
→ Kuangchang Wu asked if there are any issues with presenters who initially agree to recording but later decide to forego recording. Are there ways to opt-out after?

Update: Robert Koch brought this up at Victoria’s Friday Technical Council meeting and the answer was that presenters can decline recording regardless right up to the start of their presentation.

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).  
→ It was noted by Christina Naify that there were no longer tickets available as of the start of the SAVTC meeting.

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.  
→ It was noted by T.J. Flynn that the Student Council needs more members to volunteer to pair with students at the luncheon.

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 & Jason Smoker

David Raudales also volunteered to assist Ben.

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

Ben Shafer noted to interested SAVTC members that “this is not as hard as you think it might be”

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 Bogdan Popa.  
→ During the meeting discussion, Christina Naify crowd-sourced some related topics: Aqueous Acoustic Metamaterials (Matthew Guild chairing a PA session in San Diego, any takers for SAVTC Co-chair?)  
→ Jason Smoker mentioned he will talk to Matthew Guild about being a co-chair
- 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)  
→ Update: Jerry Ginsberg and Greg McDaniel confirmed and supplied a descriptive sentence to Robert Koch
- Treatment methods and computational analysis of vehicles: Chairs, Ben Shafer and Michael T. Rose
- Computational methods for mid-frequency structural acoustic problems: Chairs, Anthony Bonomo and David Raudales  
→ Anthony noted he was switching to the current title from an earlier time-domain modeling session due to an existing proposed similar session in TCCA  
→ David Raudales volunteered to Co-chair this session with Anthony
- Acoustics of 3D-printed materials and structures: Chairs, Alexey Titovich and Stephanie G. Konarski (Stephanie volunteered in absentia by Anthony Bonomo – still to be confirmed)  
→ Alexey Titovich noted the session was limited in scope to avoid shifting into a metamaterials session  
→ Update: Stephanie Konarski confirmed

Update: At conclusion of Victoria meeting, all above SAVTC sessions were finalized and officially submitted to the San Diego meeting program.

b. Technical Program Organizers: Benjamin Shafer and Robert Koch

c. Student and young presenter paper awards: Benjamin Shafer, Jason Smoker, & David Raudales

8. 179<sup>th</sup> 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 Bogdan Popa
- Non-contact vibration measurement methods: Chairs: Ben Shafer and T.J. Flynn
- Active or tunable structural acoustics: Chair(s), Christina Naify, ...
- Real World Case Studies in structural acoustics and vibration of vehicles:  
Chair(s): Robert Koch, Christina Naify?, Nick Vlahopolous?,...
  - Session designed to meet “Industry Outreach” goals (automotive, etc.)
  - Ideas include reaching out to Chicago Chapter of ASA
  - Robert Koch to contact Nick Vlahopoulos as well
- Retrospective on fuzzy structures for structural acoustics and vibration: Chair, Jerry Ginsberg
  - Jerry Ginsberg noted that this session on vibration absorption might be a good topic to renew interest (Retrospective: what’s new since the 90’s?)
- Historical Session TBD ??: Chair(s), Alexey Titovich?

Update: At conclusion of Victoria meeting, all above special sessions (except Historical Session) were officially submitted as Preliminary SAVTC sessions for the Chicago meeting. Note that SAVTC members may add to/modify this sessions list until they are finalized at ASA Louisville.

b. Technical Program Organizers: Benjamin Shafer and Robert Koch

c. Student and young presenter paper awards: Benjamin Shafer

9. Future meetings:

180<sup>th</sup> Meeting, Cancun, Mexico, 9-13 November 2020

181<sup>st</sup> Meeting, Still TBD, Spring 2021

182<sup>nd</sup> 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 summary bulletized below:
  - Jerry Ginsberg: Previous attempt had difficulty with making contacts and raising awareness among industry folks.
  - Colby Cushing: Identify with students (via open-house, demo type events) to create in-roads with future industry members.
  - Micah Shepherd: Make it clear that there is useful information to be gained for industry people who don’t even have to sign up to deliver a presentation. That is, create demand independent of presenting.
  - Ben Shafer: Special session with focus on industry or make a concerted effort to invite industry speakers.
  - Special session ideas for Chicago: Automotive, heavy equipment
  - Scott Sommerfeldt: Hold Session in Real world Case Studies (every few meetings)
  - Advertise directly to companies, to Chicago Chapter of ASA
- ‘Remote Presentation’ Policy / SAVTC discussion summary bulletized below:
  - Current Policy: Not allowed except in extenuating circumstances, but demand is increasing.
  - Ben Shafer: Would be difficult to implement in a live session but could be more feasible if there were a dedicated (perhaps discounted) remote presentation session.
  - Jerry Ginsberg: Opposed to remote presentations, “the point of being at a meeting is to be with people”. Though could perhaps be run on a case-by-case basis.
  - Anthony Bonomo: If remote presentations are an option, some federal employees may not be able to attend.
- Laura Kloepper: Chair of ASA Public Relations visited SAVTC meeting.
 

“Current ASA chain-of-command makes the society sluggish to respond to external media so we miss the bus. Looking for contact from TCs to serve as media ambassadors. Comes with some form of training.  
The individual would *not* represent to society, but would be a knowledgeable subject matter expert contact.”
- ‘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!)

T.J. Flynn is rolling off as SAVTC Student Council Rep...  
... Welcome to the new Student Rep, Colby Cushing of UT Austin  
(email: colby.cushing@utexas.edu)!

Request for Members:

- Send Job/Internship Opportunities for the Student Council to post for free (visit [asastudents.org](http://asastudents.org) or email Colby directly, [colby.cushing@utexas.edu](mailto:colby.cushing@utexas.edu))
- Looking for more volunteers for the Students Meet Members for Lunch program (SMMfL). Volunteers offer to have lunch at a future ASA Meeting with an interested student. Members are not expected to purchase lunch for the students.
- Visit the Acoustics Program Database at [exploresound.org](http://exploresound.org) – If your program (or another that you’re aware of) is not listed – please submit it for inclusion!
- Looking for volunteers/nomination for a Fellowship & Grant Panel directed toward students and early career acousticians. Send names to Colby ([colby.cushing@utexas.edu](mailto:colby.cushing@utexas.edu))

General Student Updates:

- Student Events in Victoria
  - Student Orientation (Monday, 55 students)
  - Student Meet & Greet (Monday, ~130 students)
  - Student Outing (Monday, 35 students)
  - NCAC Student Reception (Wednesday, ~150 attendees)
  - Ruffled tickets for students to attend the Society Luncheon & Lecture. 26 students were awarded tickets and paired with Members in their (or similar) TCs.
- New ASA Students webpage – Looks nice! ([asastudents.org](http://asastudents.org))
- Mentor Award - Call for applications to go out shortly after Victoria. Deadline for consideration is March 1, 2019
- Students Meet Members for Lunch program continues.
  - 71 Students were paired with members
  - SC needs more ASA Members to volunteer – it only costs a little of your time! Contact Colby to volunteer ([colby.cushing@utexas.edu](mailto:colby.cushing@utexas.edu))

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

- Looking for people to put profiles on the exploresound.org website.
- Interested parties can contact Matt or Keeta Jones (kjones@acousticalsociety.org)

16. Report on SAVTC webpage— Ryan Harne is our new volunteer (likely hasn't started work yet).

- Robert Koch submitted 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

No new business was raised.

21. Adjourn (Meeting adjourned at 9:08PM).