

ACOUSTICAL SOCIETY OF AMERICA

Fall 2020 Acoustics Virtually Everywhere

Minutes for the Open Meeting of the Technical Committee on Noise

Thursday December 10, 2020, 6:00-7:30 p.m. EST

James Phillips, Chair
Aaron Vaughn, Student Council Representative
Kenton Hummel, incoming Student Council Representative.

Attendance: List of attendees unavailable.

Call to order at 6:00 pm EST

Approval of Agenda

Approval of Minutes from Spring 2020 Virtual Meeting

Thank you to everyone who helped make Acoustics Virtually Everywhere (AVE) possible!

More than 1,100 abstracts, ~1,300 registered

Please complete the survey

Spring 2021 will also be a virtual meeting, Fall 2021 will be in Seattle (see Future Meetings below for revised meeting schedule).

REPORTS

Membership (Bonnie Schnitta):

- New TCN Fellows: **Eric Reuter & Siu-Kit Lau**

Medals & Awards (Brigitte Schulte-Fortkamp):

- Silver Medal in Noise awarded at this meeting:
 - **Scott Sommerfeldt**
 - For contributions to active noise and structural acoustic control.
- Wallace Clement Sabine Award
 - **Gary Siebein**
- ASA Gold Medal
 - **Judy Dubno**

Leo & Gabriella Beranek Scholarship in Architectural Acoustics and Noise Control

- Committee: Ana Jaramillo (Chair) James Phillips, Bennett Brooks, Alex Case, Carl Rosenberg (representing the Beranek family)
- 2020 recipient: **Brian Puckett**

Frank & Virginia Winker Memorial Scholarship for Graduate Study in Acoustics

- Committee: Christopher Struck (Chair), James Phillips, Ana Jaramillo, Mike Haberman, Dan Russell
- 2020 recipient: **Kenton Hummel**

Young Investigators Awards

- None awarded in Spring 2020 as there were no papers presented
- Competition not organized for Fall 2020 AVE
- Is there interest in having a competition for the Spring 2021 AVE?
 - Volunteer needed to organize
 - Bill Murphy w/ TCAA

Student Council (Aaron Vaughn): Welcome students

- Attendance at AVE Student events (on Monday)
 - Student Orientation: 77
 - Student Meet 'n Greet: 82
 - Student Social: 75
 - (no students from Noise TC at the Student Orientation)
- Website & Social Media
 - <https://asastudents.org/>
 - Twitter: @asastudents
 - Facebook: Acoustical Society of America - Students
 - LinkedIn: Acoustical Society of America Students
- Acoustics Program Database
 - <https://exploresound.org/>
- SMMFL (Students Meet Members for Lunch)
 - Sign up next time!
- David T. Blackstock Mentor Award
 - Will be presented at next in-person meeting
 - Submissions roll over to the next round of selections
 - Currently awarded every 3 meetings
- ASA School
 - Targeted for graduate students & early career acousticians
 - Participants must present or coauthor a paper at the meeting
 - Likely to be the 2 days preceding the next in-person conference
 - **Rescheduled (TBD)**

Education & Outreach (Keeta Jones)

- 2020 is the International Year of Sound
 - **Has been extended through 2021 due to COVID-19**
 - <https://sound2020.org/>
- Using Wikipedia to promote acoustics knowledge for the International Year of Sound 2020
 - Contacts for Wikipedia
 - William J. Murphy , wmurphy@cdc.gov
 - Thais C. Morata, tmorata@cdc.gov

- John Sadowski, jsadowski@cdc.gov

Regional & Student Chapters (Ken Good)

- Regional and student chapters met December 2nd
- COVID restrictions have limited activities for most chapters, however, several chapters have been able to adapt and have hosted virtual meetings
- Of note, the Spanish Speaking Chapter by design is a virtual group and had minimal disruption
- Also, LA, Washington DC, & North Carolina Chapters have adapted well providing virtual events
 - LA chapter contacts: Tom Kaytt: Thomas.kaytt@hbkworld.com
- Since some chapters are hosting virtual meetings and are not bound by geography/travel, I encourage each of you to “plug-into” these events as a means of staying connected and just might be a jump start to begin a local chapter

College of Fellows (Ron Freiheit)

- Fellows page for ASA website
 - Requested improved formatting and improved search capabilities on the website for the historical additions.
 - Ning Xiang and Tony Hoover will work on an article for “Acoustics Today” about the database covering the history of Fellows prior to 2001 and the historical significance of select Fellows from early in the Society.
- Acoustics demonstrations
 - Discussed creating a video archive/catalog of high-quality acoustic demonstrations. Maybe these could be accessed via the ASA website, and/or other means, to be determined. Will partner with Education in Acoustics.
- CoF encourages promoting ASA awards and recipients
 - The winners of awards and new Fellows were included in “Acoustics Today”.
 - Also discussed ideas for announcing new Fellows in media outlets of their choice.

ASA Jam (Tony Hoover)

- Virtual Jam, Wednesday, Dec 9
 - Organized by an informal subgroup of the ASA Subcommittee on ASA Jams, lead by Dave Woolworth
 - Collected videos by/from ASA members/students
 - Posted on the ASA Jam page on the ASA website and Facebook ASA Jam page
 - VJ-ed live by Dave Woolworth starting at 8:00 pm EST.
- Virtual Jam, Spring 2021
 - Details about uploading, formatting, etc. are available at <https://acousticalsociety.org/social-events-jam>

TC Noise Web Page (Hales Swift)

- TC Noise Web Page needs to be updated
 - Members to 2023 need to be added

Technical Initiatives

- Each of the TC's discretionary funding is \$5000: \$1000 for Young Investigator Award, \$4000 to support travel (TC Noise: \$1,500 for YIA, \$3,500 for travel). Travel funding is only reimbursable and no more than \$1500 can be provided to an individual during a year.
 - Let James Phillips know of persons that have a need.
- For additional initiatives, initiative under \$2500 will be approved by a "consent" vote (up to \$15,000 total). Those over \$2500 will be considered and approved individually.
 - Let James Phillips know of persons that have a need.

- \$2000 for "Football sized" NIOSH app style outreach education prototype shirt approved in San Diego (Eric Reuter/David Woolworth)
 - Developed for IYS direct public outreach on sound, and for future outreach and education.
 - Can be produced by ASA chapters and the design to be open sourced for acoustical societies around the world. Contact David Woolworth.
 - James will follow up with Eric and David on receipts and such before the end of year

Proposed Technical Initiatives

- Chuck Ebbing library online archival - Brandon Cudequest
 - \$2500 proposed limit
 - Scanned by 3rd party company, then organized by Brandon (will double check for copyright and classified information)
 - Upload to an ASA hosted website
 - Derrick Knight moved, Ning Xiang second

Editor-in-Chief (Jim Lynch)

- JASA Reflections - First article out in July
 - TCN has submitted seven articles, and would like to get three more. Below are the seven articles that have been submitted to date:
 1. "A Critical Study of the Precision of Measurement of Absorption Coefficients by Reverberation Methods" by P. E. Sabine (<https://doi.org/10.1121/1.1915551>)
 2. "Outdoor sound propagation over ground of finite impedance" by T. F. W. Embleton, J. E. Piercy, and N. Olson (<https://doi.org/10.1121/1.380882>)
 3. "Hazardous Exposure to Intermittent and Steady-State Noise" by K. D. Kryter, W. Dixon Ward, J. D. Miller, and D. H. Eldredge (<https://doi.org/10.1121/1.1909912>)
 4. "A theoretical interpretation of the prevalence rate of noise-induced annoyance in residential populations" by S. Fidell, T. Schultz, and D. M. Green (<https://doi.org/10.1121/1.397056>)

5. Stevens, S.S., "The Measurement of Loudness," J. Acoust. Soc. of Am, Vol. 27(5), pp.815-829, 1955.
 6. Hunt, F.V., Beranek, L.L. and Maa, D.Y., "Analysis of Sound Decay in Rectangular Rooms," J. Acoust. Soc. Am. Vol. 11, pp. 80-94, 1939.
 7. Olson, H.F. and May, E.G., "Electronic Sound Absorber," J. Acoust. Soc. Am., Vol. 25(6), pp. 1130-1136, 1953.
 8. Schultz, T. J., "Synthesis of social surveys on noise annoyance," J. Acoust. Soc. Am., Vol. 64(2), 377-405, 1978
 9. Maekawa's Paper on barrier noise reduction
 10. R. H. Lyon and G. Maidanik, " Power flow between linearly coupled oscillators," J. Acoust. Soc. Am. 34, 623-639 (1962).
 11. 1962 Cavanaugh
 12. Zwicker
- JASA special issues are very popular
 - Special issue planned on COVID-19 Pandemic Acoustic Effects
 - Contact Jim Lynch
 - POMA
 - New editor: Megan Ballard
 - Thank you to Kent Gee for years as editor (now Assistant Editor)
 - Associate Editors for Noise
 - Cameron Fackler
 - Alan Wall
 - Show slide

ASACOS (Rich Peppin)

- Report to be attached to minutes
- **S12 WG44 : American National Standard Criteria for Evaluating Speech Privacy in Healthcare Facilities**
 - WG 44 will be meeting virtually in January to discuss updates/renewal of the standard. (Date TBD)
 - Key areas to address are:
 - Better guidance for open plan healthcare spaces:
 - Inclusion and guidance of ASTM E2638 Speech Privacy Class for enclosed rooms
 - If you are not on the WG44 team but wish to join, please contact Ken Good (kwgoodjr@armstrongceilings.com)

Strategic Plan Champions

- Meet every ASA meeting (Thu, 2:00pm-4:00pm)
- Task A: Identification and Promotion of Emerging Scientific Areas
 - Chair: James Lynch/Adam Maxwell
 - TCN Rep: James Phillips
- Task B: Better Engagement of Industry and Practitioners
 - Chair: Derrick Knight
 - TCN Rep: Eric Reuter
- Task C: Improved Communications and Public Relations
 - Chair: Matt Kamrath
 - TCN Rep: Keeta Jones
- Task D: Member Engagement, Outside of Meetings
 - Chair: Christopher Jasinski
 - TCN Rep: Ralph Muehleisen

Technical Council Requests

- **Committee to Improve Racial Diversity and Inclusivity (CIRDI)**
 - Studying internal processes
 - Expanding our external reach to under-represented groups
 - 14 minority students attending this AVE meeting on fellowships
 - Summer 2021, planning a research/internship experience for minority undergraduate students - 3 weeks of workshops plus a hands-on (possibly virtual) experience
 - AIP, ASA Foundation and ASA Executive Council have committed funds for 6-8 students so far
 - **Asking TC's to consider pooling technical initiative funds to help expand the number of students (~\$7,500/student)**
 - Looking for possible mentors and/or instructors for workshops
 - <https://acousticalsociety.org/committee-to-improve-racial-diversity-and-inclusivity/>
 - link to indicate interest in mentoring is at bottom of webpage
- **New ASA-sponsored monthly webinar series**
 - Topics of interest to general ASA membership and the broader acoustics community
 - provide ongoing engagement in acoustics throughout the year
 - Feedback, volunteers for the working group, and/or speaker recommendations from TCs are welcome
 - Contact is Judy Dubno
 -
- **ASA Books Committee**
 - The ASA Books Committee is looking for new book proposals for the ASA Press imprint by ASA members.
 - Contact Committee Chair Mark Hamilton

- <https://acousticstoday.org/acoustical-society-of-america-books-committee-mark-f-hamilton/>

MEETINGS

179th Meeting Fall 2020, Acoustics Virtually Everywhere

TPOs: William Murphy, Hales Swift, James Phillips

1. Advances in Hearing Protection Devices (Cosponsors: PP, ASACOS)
 - Cameron Fackler
 - William Murphy
 - Elliott Berger
2. Forty-One Years of Responding to External Stimuli: A Session in Honor of Elliott Berger (Cosponsor: ASACOS)
 - Cameron Fackler
 - Laurie Wells
 - William Murphy
3. Impact of Transportation Noise on Buildings (Cosponsors: AA, SA, ASACOS)
 - Ben Markham
 - James Phillips
4. In Memory of Richard Lyon (Cosponsors: SA, AA)
 - Patricia Davies
 - Greg Tocci
5. Larry H. Royster Memorial Session (Cosponsor: ED)
 - Elliott Berger
 - William Murphy
 - Noral Stewart
6. Noise Standards (Cosponsors: AA, SP, ASACOS)
 - Chris Struck
 - James Phillips
7. Perception of Vehicle Noise (Cosponsors: SA, PP, ASACOS)
 - Patricia Davies

The Spring 2021 meeting will be virtual, and the Seattle meeting has been moved to Fall 2021 (Nov 29 - Dec 3)

180th Meeting Spring 2021, Virtual meeting - finalized sessions

7-11 June 2021

Chair: Andy Piacsek

Technical Chair: Anna Dienesch

TCN TPOs: William Murphy, James Phillips, Hales Swift

1. Soundscape Projects: Networking, Participation, and New Technology (Cosponsors: AA, AB, ASACOS)
 - Antonella Radicchi
 - Brigitte Schulte-Fortkamp

2. Nonoccupational Noise and Hearing Loss
 - Bonnie Schnitta
 - William Murphy
3. Pandemic Noise Responses (changed from Lockdown Noise)
 - Kirill Horoshenkov
 - Abigail Bristow
 - Stuart Bolton

181st Meeting Fall 2021, Seattle, WA – finalized sessions

29 November -3 December 2021

Chair: Todd Heffner

Technical Chair: Aubrey Espana

TCN TPOs: William Murphy, James Phillips, Hales Swift

1. ISO Standard on Soundscapes / Standardization in Soundscape: Application and Development (Cosponsors: AA, ASACOS)
 - Brigitte Schulte-Fortkamp
 - Bennett Brooks
 - Andre Fiebig
2. Special Noise Issues in Modern Construction (joint with AA)
 - Bonnie Schnitta
 - Nicholas Sylvestre-Williams
3. Wind Turbine Noise (Cosponsors: PP, ASACOS)
 - Norm Broner?
 - David Michaud
 - Mark Bastasch
4. Building Systems Noise and Vibration Control: Beyond ASHRAE Chapter 49
 - Brandon Cudequest
 - Joe Keefe
5. Aircraft Jet Noise
 - Kent Gee
 - Alan Wall
6. Sound Walks (Cosponsors:AA,ASACOS)
 - Bennett Brooks
 - David Woolworth
7. Memorial Session for Tony Embleton
 - Bennett Brooks
 - Nicholas Sylvestre-Williams

Future Meetings

- 182nd Meeting Spring 2022 in Denver, CO (23-27 May 2022), Chair: Dana Hougland
 - Tentative sessions:
 - Health Effects of Noise (Hales Swift, Lily Wang)
 -
 -
- 2022 Fall, Atlanta?
- 2023 Spring, Chicago, Co-chairs: Shane Kanter, Stephanie Hoeman
- 2023 Fall, Sydney, Australia, ASA Co-Chair: Marcia Isakson, ASA Technical Chair: James Miller
- 2025 Spring, New Orleans (joint with ICA), Chair: Mark Hamilton

New Business

- Membership Engagement Committee needs a panelist knowledgeable on RFPs for spring 2021 - Bennett Brooks will help
 - Contact Derrick Knight if interested
- none

Adjourned at 7:30 pm EST

TO: James Phillips, Chair ASA TC Noise

FROM: Rich Peppin

The Report of ASACOS Virtual Meeting. Chair, Christopher J. Struck
Tuesday, 01 December 2020 1:00PM to 1:48PM CT

1. Announcements

The chair reported with great sadness the passing of Tony Embleton. Tony was a former ASA Standards Director, and President of ASA. He was a recipient of the R. Bruce Lindsay Award, the Silver Medal in Noise, and the Gold Medal. He also shared that an obituary and link were included in his Director's Report.

The chair further announced Stephen Robinson was taking over as chair to ISO TC43/SC3 following George Frisk's retirement at the end of 2020.

The chair also announced that ISO was moving to a new platform, "ISO Documents" and urged all participants in ISO committees and working groups to familiarize themselves with this new functionality.

2. Standards Director Update

The chair shared a presentation wherein he announced that IEC 60263:200 Ed 4 was recently published and that he was interviewed on this work in a recently published article that had been shared across social media platforms. He also shared that we would identically adopt this standard as ANSI/ASA S1.22-20XX and that he expects it will be balloted in the next week or so. He further shared that S1 Working Group 1 has made the decision to nationally adopt the eight IEC microphone standards, which include IEC 61094 thru IEC 61094-8, and that we can expect to see these out for ballot beginning in January 2021.

He also shared that we recently published ANSI/ASA S1.45-2020/IEEE 260.4-2018, which was a collaborative effort with IEEE, spearheaded by Robert Hellweg. He announced that there was a good article on ANSI/ASA S12.70 by Ken Goode and Neil Shaw, published in Acoustics Today and encouraged the committee to read it. He also announced that S12 working group 41, Model Community Noise Ordinance has reactivated itself and with David Woolworth as chair, will publish this as a technical report.

Christopher Struck shared a summary of ASA operational activities including process automation updates, additional database functionality, ongoing work including the ability to track US TAG activities and electronic balloting and staff changes, which included hiring Raegan Ripley in late August, plus two additional contractors to support the ongoing work in the office.

The chair further reported on publishing activities, which included 85 reaffirmations, 9 new, nationally adopted and or revised standards published in 2020, and 132 ISO/IEC US TAG ballots circulated and voted on. Christopher Struck also shared that our sales revenue has increased by

26% under the new business model but did also share that membership dues has decreased by 19% due to several cancellations he believes is the result of COVID. He encouraged attendees to send potential member leads to staff to close the gap we are experiencing due to these recent cancellations.

3. New Business

The chair asked for updates from the ASA technical committee representatives on the call. Dorian Houser reported that the number of working groups under animal bioacoustics has declined, and as the result, he plans to reach out to his TC representative to discuss.

Christopher Struck also encouraged that working group chairs work toward reaching out to technical committee representatives to create a stronger linkage between the TCs and ASA standards work, and to enable recruitment—particularly from younger people who may be interested in working more closely with standards development efforts.

4. Next Meeting (Tentative):

The chair announced that the next meeting is tentatively scheduled for Tuesday, June 8, 2021 at the ASA 180th Meeting, in Seattle, WA. However, if because of COVID virtual meetings are still optimal, the next ASACOS meeting will be scheduled for Tuesday June 1, 2021 via Zoom.

Attendees

Andrew Berezowski , Andrew Morrison, Angelique Scharine , Bob Hellweg, Brian Biby , Brian Fowler , Brian Simpson, Chad Musser , Chris Struck, Christie Themann, Chuck Crowell, Daniel Warren, David Woolworth , Don Peterson, Dorian Houser, Ed O’Korn, Greg Lyons , Hilary Gallagher , Jack Zybura , James Nelson, Karl Peterman, Ken Berlack, Ken Good , Kevin Herreman , Laura Wilber, Laurie Wells , Les Blomberg, Marco Beltman , Mark Bastasch, Michael Gaitan , Michael Stocker , Nancy Blair-DeLeon (admin) , Nicholas Sylvestre-Williams, Pete Johnson , Raegan Ripley , Rich Peppin, Robert Babitt, Robert Taub, Rodger Reiswig , Roger Wayson, S. More, Stephen Lind , Travis McColley , Vasant Dasika , Wayne Kreider , William Gallagher , Zhaoyan Zhang