

ACOUSTICAL SOCIETY OF AMERICA

178th Meeting of the
Acoustical Society of America
San Diego, CA

Minutes for the Open Meeting of the Technical Committee on Noise

Thursday December 5, 7:30 p.m.
Continental/Crystal

Attendance

Members:

Ann Bowles, Noel Hart, Kirill Horoshenkov, Alan Wall, Lily Wang, Bennett Brooks, Brandon Cudequest, Alexandra Loubeau, David Manley, William Murphy, Brigitte Schulte-Fortkamp, Vic Sparrow, Kerrie Standlee, Keith Attenborough, Matthew Blevins, Fernando Elizondo, Kent Gee, Klaus Genuit, Kenneth Good, James Holtrop, K. Anthony Hoover, Matthew Kamrath, Steven Pettyjohn, Eric Reuter, S. Hales Swift, Michelle Vigeant, Douglas Winker, David Woolworth, Ning Xiang, Buye Xu

Guests:

Sergio Beristain, Rebeca De la Fuente, Jack Zybura, Will Doebler, Lixi Huang, Kevin Leete, Matt Calton, Kumar Nishant, Reh fuss Randall, Shankar Arjun, Joseph Keefe, John Baldassano, Jr., Christopher Struck, Mahamud Babu, Kimberly Riegel, Ralph Muehleisen, Viken Kaukounian, Ed Okorn, Kieren Smith, Henry Ashburn, Zachery L'Italien, Carla Wallace, David Michaud, Edward O'Neill

James Phillips, Chair

Aaron Vaughn, Student Council Representative

A moment of silence was observed for the recent passing of TCN member William Cavanaugh

Congratulations given to Tony Hoover for receiving the 2019 Laymon Miller Award!

Awarded annually/jointly by NCAC & INCE/USA

This award is to be provided to an individual who has practiced acoustical consulting in an exemplary manner over a sustained period of time to improve acoustical environments in and around buildings, transportation systems, work places, recreational and other occupied spaces such that the quality of life for citizens and communities is significantly enhanced.

Approval of Agenda

approved

Minutes from Louisville, KY

approved

Thank you to San Diego Organizers

Peter Gerstoft, Chair

Aaron M. Thode, Technical Program Chair

Ludovic Tenorio- Hallé, Eric Snyder, Student Coordination

Gihoon Bryun, Signs

Michael Bianco, JAM

Sienna Thomas, Accompanying Persons

Camille Pagniello, Luncheons

Emma Ozanich, Yoga on the Beach

Special thanks to the organizers of the Workshop on Jet Noise (5 & 6 December)

Kent Gee

Alan Wall

Caroline Lubert

Noise Special Sessions, San Diego, CA, 2-6 December 2019

Technical Program Organizers: William Murphy, Hales Swift, James Phillips

1. 1aNS: Quiet Supersonic Flights 2018 I (Cosponsor: PA)
Jonathan Rathsam
Larry Cliatt
2. 1pNS: Quiet Supersonic Flights 2018 II (Cosponsor: PA)
Jonathan Rathsam
Larry Cliatt
3. 2aNSa: Effects on People and Wildlife from Transportation Noise (Land, Air, Sea), as Well as Innovative Solutions for Reducing Noise (Cosponsor: AB/UW)
Bonnie Schnitta
James Phillips
4. 2aNSb: Outdoor Entertainment Noise
David Manley
K. Anthony Hoover
5. 2pNSa: Current Trends and Advancements in Applying Acoustics to Smart Cities (Cosponsor: AA/ASACOS)
Brigitte Schulte-Fortkamp
Bennett Brooks
6. 2pNSb: General Noise Session
William Murphy
7. 3pNS: Development of New Sounds for Electric Vehicles (Cosponsor: PP, ASACOS)
Brigitte Schulte-Fortkamp
Klaus Genuit
8. 4aNS: Supersonic Jet Aeroacoustics I (Cosponsor: PA/CA)
Alan Wall
Kent Gee
Caroline Lubert
9. 4pNS: Supersonic Jet Aeroacoustics II (Cosponsor: PA/CA)
Kent Gee

Alan Wall

10. 5aNS: Jet Noise Reduction Workshop (Cosponsor: PA/CA)

Kent Gee

Alan Wall

Total of 65 papers + 1 workshop

18 entries for Outstanding Paper by a Young Presenter Awards

Feedback?

- Noise control is terrible - kitchen carts, Christmas music, etc.
- Right after Thanksgiving increases costs
- Hotel and food near the hotel are expensive
- Construction
- Proximity to school finals
- Audio visual went smoothly
- Lack of AC at times
- Some projectors were not clearly visible
- Previous meetings that were recorded/streamed were beneficial

Membership Report (Alex Case):

- Nominations for Fellows
 - Clearing up guidelines for the nomination process

Medals & Awards (Brigitte Schulte-Fortkamp):

- Overdue for awarding Silver Medal in Noise
 - Last award was 2012 – Keith Attenborough
 - Committee:
 - Brigitte Schulte-Fortkamp
 - Bennett Brooks
 - James Phillips
- Gold medal nomination in the works
- Dossiers due April 8, 2020 for Chicago meeting

Leo & Gabriella Beranek Scholarship in Architectural Acoustics and Noise Control

- Committee: James Phillips (Chair), Eric Reuter, Tony Hoover, Alex Case, Carl Rosenberg (representing the Beranek family)
- 2019 recipient: Kevin Leete, Brigham Young University

Frank & Virginia Winker Memorial Scholarship for Graduate Study in Acoustics

- Committee: Christopher Struck (Chair), James Phillips, Eric Reuter, Gary Elko (alternate for Mike Haberman), Dan Russell
- 2019 recipient: Colby Cushing, University of Texas

Young Investigators Awards from Louisville, KY

1) Mylan R. Cook

Improved automated classification of basketball crowd noise

2) Jonathan R. Weber

Quiet time impacts on the neonatal intensive care unit soundscape and patient outcomes

3) Gregory Scott Farber

Soundprint and the ASA's International Noise Awareness Day campaign - results, what worked, and going forward

Bonus money for showing up to the TC meeting? (similar to INCE)

Student Council (Aaron Vaughn): Welcome students

- I'm the new Noise TC Student Council Rep
 - Term ends after Fall 2020 meeting in Cancun
- 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/>
- Mentor Award
 - Will be presented in Chicago meeting
 - Awarded every 3 meetings
 - Academic and industry mentors
- SMMFL (Student Meet Members for Lunch)
 - Sign up for Chicago!
- ASA School
 - Targeted for graduate students & early career acousticians
 - Participants must present or coauthor a paper at the Chicago meeting
 - Two days prior to Chicago ASA meeting

Education & Outreach

- 2020 is the International Year of Sound
 - <https://sound2020.org/>
- 3aED1: Using Wikipedia to promote acoustics knowledge for the International Year of Sound 2020
 - William J. Murphy, wmurphy@cdc.gov
 - Thais C. Morata, tmorata@cdc.gov
 - Division of Field Studies and Engineering, Noise and Bioacoustics Team
National Institute for Occupational Safety and Health
 - John Sadowski, jsadowski@cdc.gov

- Office of the Director, National Institute for Occupational Safety and Health
- Ways you can participate:
 - Participate as an individual, and join the campaign
 - Host an online or hands-on, on-site event
 - Use the WikiEdu Platform, if you teach
 - <https://meta.wikimedia.org/wiki/Wiki4YearOfSound2020>
 - #Wiki4InternationalYearOfSound
 - Workshop in Chicago
 - Regional and Student Chapters
 - Invited speaker series
 - Tours of interesting acoustic spaces
 - Sound Walks
 - Acoustic Demo Kits

ASA Foundation (Victor Sparrow)

- Remember the ASA when giving
- Special campaign for early-career leadership

Women in Acoustics (Michelle Vigeant)

- Luncheon on Wednesdays at ASA Conferences
- Young Investigator award (for men and women)
- Session in Cancun about career and life - round table style

Regional Chapters (Ken Good)

- Chapters Meeting Wednesday, 7:00am
- Chapters are a great way to bring the National meeting home and engage folks who could or would not attend the national meeting. They also serve as opportunities to coordinate with other organizations such as AIA, AES as examples. Last “Chapters” consider how your chapter can support “Strategic Initiative B” (Better Engagement of Industry and Practitioners).
- Exciting news! - Chapter for Spanish Speaking acousticians in progress. (Demographic rather than geographic, virtual)
- Recently launched East Southeast Asia Chapter
- Distinguished lecture series for regional or student chapters
 - Names of award winners, professors on sabbaticals, etc to be on the list

College of Fellows (Tony Hoover)

- Undergraduate students’ registration fees are \$25 for the San Diego meeting, and will remain \$25 for the foreseeable future.
- Two email blasts with information, poster (attached), and letter from ASA President Vic Sparrow went out to local professors and deans at colleges & universities in the San Diego area that are potentially related to acoustics, advertising the ASA meeting, encouraging attendance by any/all students that may be interested. Thanks to Asis

Lopez/Student rep to CoF, and to Keeta Jones/ASA Education and Outreach Coordinator... and to Elaine!

- CoF invites any/all Fellows to join the College of Fellows Steering Committee.
- San Diego Society Luncheon and Lecture Hosted by CoF (Thursday, Noon - tickets were again sold out):
- From Human "Computer" to Sonic Boom Minimization! Dr. Christine Darden is an African American mathematician, data analyst, and aeronautical engineer who devoted much of her 40-year career in aerodynamics at NASA to researching supersonic flight and sonic booms.
- Thanks to TCN members who volunteered to accompany the ticket-winning students to the Luncheon!

TC Noise Web Page

- Volunteer needed to update
 - Hales Swift

Technical Council Initiatives

- Each of the TC's discretionary funding is \$5000: \$1000 for Young Investigator Award, \$4000 to support 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 know if you have any ideas for technical initiatives
- \$500 each for 3 presenters for the upcoming Chicago ASA meeting
 - Regulatory Implications of Findings About Health Consequences of Transportation Noise (Cosponsors: ASACOS, PP)
- \$2000 for "Football sized" NIOSH app style outreach education prototype shirt?
 - Programmable LED shirt
 - Repackage SLM
 - For International Year of Sound
 - Details to be determined
 - Ken Good made motion
 - Motion amended to \$2000
 - Motion approved
 - Talk to David Woolworth with ideas

Proposed Technical Council Initiatives

- N/A

Editor-In-Chief Report (Jim Lynch)

- JASA Reflections
- Will be a new monthly feature, and extend over the next decade (until 2029)
- Then will compile for a printed collection in 2029

- Is a 1-2 page description of a “classic” (seminal) article in the areas of our technical committees up to 2000 (but exceptions can be made if newer articles have dramatically changed a field)
- We have at least a couple of classic paper recommendations from each TC. We still would like a full list of 5-10 classic papers from all TCs, so that we have a fair representation
 - Reflections Committee for TCN
 - Ning Xiang
 - Steve Pettyjohn
 - David Lubman
 - Patricia Davies (coordinate with INCE, student papers) - Contact
 - Hales Swift
 - Bill Murphy
 - (1) Fletcher, H. and Munson, W.A., “Loudness, Its Definition, Measurement and Calculation,” J. Acoust. Soc. of Am., Vol. 5(2), pp. 81-108, 1933.
 - (2) Sabine, P.E., “A Critical Study of the Precision of Measurement of Absorption Coefficients by Reverberation Methods,” J. Acoust. Soc. Am. Vol. 3, pp. 139-154, 1931.
 - (3) Biot, M.A., “Theory of propagation of elastic waves in a fluid-saturated porous solid 1. Low-frequency range,” J. Acoust. Soc. Am. Vol. 28 (2), pp. 168-178, 1956.
 - (4) Embleton, T.F.W., Piercy, J.E. and Olson N., “Outdoor Sound Propagation over Ground of Finite Impedance,” J. Acoust. Soc. Am., Vol. 59(2), pp. 267-277, 1976.
 - (5) Kryter K.D., Ward, W.D., Miller J.D., Eldredge D. H., “Hazardous Exposure to Intermittent and Steady-State Noise, J. Acoust. Soc. Am., Vol. 39, pp. 451-464, 1965.
 - (6) Fidell, S., Schultz, T., and Green, D.M., “A theoretical interpretation of the prevalence rate of noise-induced annoyance in residential populations,” J. Acoust. Soc. Am., Vol. 84(6), pp. 2109-2113, 1988.
- New headings in JASA
 - Computational Acoustics
 - New Technical Specialty Group
 - Kuangcheng Wu is the Coordinating Editor
 - Acoustic Standards and Practice
 - JASA Editorial by Lynch and Struck
 - Further new topics?
 - Strategic Task forces to study this
- JASA-Express Letters to become separate open access journal
 - Return to original ARLO concept
 - Launch planned for January 2021

Journal of the Acoustical Society of America

- JASA Associate Editors for Noise
 - Anurag Agarwal, University of Cambridge
 - Jordan Cheer, Institute of Sound and Vibration Research, University of Southampton

- Sanford Fidell, Fidell Associates
 - Kirill V. Horoshenkov, University of Sheffield (Coordinating Editor, Noise)
 - Yun Jing, North Carolina State University
 - Alexandra Loubeau, NASA Langley Research Center
 - David S. Michaud, Health Canada
 - William J. Murphy, National Institute for Occupational Safety and Health
 - Alan T. Wall, Air Force Research Laboratory
- JASA Express Letters Associate Editor for Noise (Eddie Lau, Alexandra Loubeau, Traci Neilsen)
 - Peer reviewed
 - Quicker review and publication process
 - Shorter papers, smaller in scope than JASA
 - Open access
 - wav files and animations compatible with online publication
- POMA (Kent Gee) – Associate Editors: Alan Wall, Cameron Fackler
 - **Please submit POMA papers!**
 - **Does not preclude from further publishing!**
 - Easy templates online (Word and LaTeX)
 - Special sessions eligible for summary papers
 - Education in Acoustics session promoted POMA- great opportunity for students to practice writing for journals
- **JASA Special Issue, Vol. 146, No. 5, Pt. 2 of 2, 11.2019**
 - *Noise-Induced Hearing Loss: Translating Risk from Animal Models to Real-World Environments*
 - <https://asa.scitation.org/toc/jas/collection/10.1121/jas.2019.NIHLNS2019.issue-1>
 - Went live last week!
 - Open access

ASACOS (Rich Peppin)

- ASA Standards moves to a “pay for service” business model 1 January 2020
 - New pricing, topic bundles, quantity discounts, renegotiation of all site licenses and contracts with resellers
 - **Elimination of 5 free standards**
- The ASA Standards Office goes “Virtual”
 - Transition beginning January 2020, fully virtual by the Chicago meeting
 - Staff functions to be fulfilled by remote contractors
 - No change in contact/availability or support/service
- ISO/TC 43/SC 1 Noise
 - 8-12 June 2020 - Paris, France

Executive Council Report

- 1) Hired a new finance manager: Mike McGovern
- 2) International Year of Sound 2020! Participate! Money, grants, activities! Closing ceremony at the Cancun meeting, potentially
- 3) Down under fund \$100,000 (\$1,000 per 100 students)

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
 - Input requested from TCN:
 - 1) What new technical/scientific areas should ASA pursue in the near future?
 - Over-the-counter hearing amplifiers (PSAP)
 - Personal SLM warning device like on Apple Watch
 - Noise exposure from headphones (earbuds)
 - Array of things - community noise measurements - able to contribute to larger network of sound monitoring
 - Sound levels in movie theaters
 - 2) Which older areas that now receive minimal attention should we revisit, and in what degree?
 - ISO 1999 & ANSI S3.44 - Noise hearing loss prediction curves
 - Equal energy vs impulse sound
 - Modern noise environment instead of previous older workplace
 - Collecting new data challenge
 - 3) Do some of our traditional areas need assistance to be more vital in the future?
 - Inherit commonly used book for early-career acousticians
 - Laymon Miller
 - HUD Noise Guidebook
 - Sound level weightings - S1.42
 - At Thursday meeting Task A group identified topics, mechanisms and metrics towards their goal
 - TCN Rep: James Phillips
- Task B: Better Engagement of Industry and Practitioners
 - Chair: Eric Reuter
 - TCN Rep: Eric Reuter
- Task C: Improved Communications and Public Relations
 - Chair: Michelle Vigeant
 - TCN Rep: Keeta Jones
- Task D: Member Engagement, Outside of Meetings
 - Chair: Christopher Jasinski

- 7,000 members, meetings 2x/year with attendance of about 1,000 each, this means many members not participating
 - What can we do to change this?
-
- TCN Rep: Ralph Muehleisen

Technical Council Requests

- Is TCN supportive of another joint meeting with INCE? Yes
- What do we want photography policy to be? Same as other TCs
 - Currently no photography without permission of ASA
 - Addition of notice on screen before/between papers at this meeting appeared to help
- <http://acousticalsociety.org/volunteer>

Spring 2020, Chicago, IL Special Sessions:

Meeting Co-Chairs: Shane Kanter, Stephanie Hoeman

Call for papers out. **Abstracts due 6 January 2020**

TPOM 6 February 2020

TPOs: William Murphy, Hales Swift, James Phillips

ASA School (available to those within 3yrs of terminal degree)

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: EA)
 - Elliott Berger
 - William Murphy
 - Noral Stewart
6. Regulatory Implications of Findings About Health Consequences of Transportation Noise (Cosponsors: ASACOS, PP)
 - Sanford Fidell
7. Soundscape Projects: Networking, Participation, and New Technology (Cosponsors: AA, AB, ASACOS)

- Antonella Radicchi
 - Brigitte Schulte-Fortkamp
8. Standardization in Soundscape: Application and Development (Cosponsors: AA, ASACOS)
- Brigitte Schulte-Fortkamp
 - Andre Fiebig
9. **Named Session for Bill Cavanaugh (Tony Hoover)**
- There will be a named session for Bill Cavanaugh, approved by the Executive Council for upcoming Chicago. The overall goal is to offer “standard” papers on areas to which Bill made contributions (speech privacy, cinema sound (and performance spaces in general), teaching/mentoring, professional societies, outdoor performance noise and monitoring, ASA “poster books”, etc. Also looking for various presentations, summaries, collected anecdotes, etc. that might be shorter, such as 10 minutes each, or combined in various ways (e.g., several people regarding the early days of BBN, a project(s) of interest, etc.). Glad for any input. Thanks!

Fall 2020, Cancun Mexico Session Planning

How many people plan to attend? Half

<https://tinyurl.com/CancunSpecialSessions>

1. Perception of Vehicle Noise
 - Patricia Davies
 2. Firing Range Noise
 - William Murphy
 - Ning Xiang
 3. Sound Walks
 - David Woolworth
 - Bennett Brooks
 4. Noise Standards
 - Chris Struck
 - James Phillips
 5. Noise in Cities around the World
 - Fernando Elizondo (Mexican Institute of Acoustics)
fjelizon@hotmail.com
 - David Woolworth
 6. Wind Turbine Noise
 - David S Michaud
 - Mark Bastach
- Social Outreach Activity

*Soundwalks for archaeological colleagues, visit of Chichen Itza, Uxmal

TPOs for Cancun: James Phillips, Kerrie Standlee, Hales Swift (might not be present)

Spring 2021, Seattle, WA Tentative Sessions

<https://tinyurl.com/Spring2021TentativeSessions>

1. Mechanical Equipment Noise
 - Brandon Cudequest
 - Joe Keefe
2. Nonoccupational noise and hearing loss
 - David S Michaud
 - William Murphy
3. Health effects of noise
 - Hales Swift
 - Lily Wang
4. Aircraft and Jet Noise
 - Kent Gee
 - Alan Wall
5. Soundscapes
 - Brigitte Schulte-Fortkamp
 - Klaus Genuit

Future Meetings

- Fall 2021 Sydney, Australia (6-10 December)
 - ASA Meeting Cochair: Marcia Isakson
 - ASA Technical Program Chair: James H. Miller
 - Funding for students will be available, using left-over 2019 and 2020 Tech Initiative funds. There will be an application process.
 - 3 papers an hour, every 20 minutes
- Costs for future meetings may go up

New Business

- None

Adjourned at 9:29 p.m.