

2020 ASA Annual Report
Technical Committee on Noise (TCNS)

During 2019-20, the membership of the Technical Committee on Noise continues to be active in the Society and been honored to serve. Victor Sparrow served as President of the Society while Peggy Nelson served as Vice President. Bennett Brooks continues to serve on the Executive Council. All have been active within TCNS through chairing sessions and helping to organize recent meetings.

The year 2020 is International Year of Sound and many TCNS members participated in related events, as well as World Hearing Day (3 March annually) and International Noise Awareness Day (last Wednesday of April, annually). We received word that due to the special circumstances of the worldwide pandemic, the International Year of Sound will be extended through 2021.

TCNS has promoted the development of upcoming talent. This year marks the fifth year of the Leo and Gabriela Beranek Scholarship in Architectural Acoustics and Noise Control. This year's recipient is Brian Puckett who is pursuing his Ph.D. in Architectural Engineering at the University of Nebraska. TCNS member Dr. Erica Ryherd is Brian's advisor. In addition, this year is the fourth year for the Virginia and Frank Winker Memorial Scholarship for Graduate Study in Acoustics. This year's recipient is Kenton Hummel who is also pursuing a Ph.D. in Architectural Engineering at the University of Nebraska, under the guidance of TCNS member Dr. Erica Ryherd. I encourage faculty at all universities to encourage students to apply for these two scholarships. I, along with the other members of the Beranek scholarship committee (Ana Jaramillo (TCAA Chair), Bennett Brooks, Alex Case, and Carl Rosenberg) and the Winker scholarship committee (Christopher Struck (ASA Standards Director), Ana Jaramillo (TCAA Chair), Michael Haberman (Chair TCEA), and Daniel Russell) have been privileged to review the applications of the students.

The 177th meeting of the ASA was held in Louisville, Kentucky with 7 TCNS-led sessions and 57 papers presented. Three Young Presenters were honored for excellent papers that they presented in Louisville: Mylan R. Cook for "Improved automated classification of basketball crowd noise," Jonathan R. Weber for "Quiet time impacts on the neonatal intensive care unit soundscape and patient outcomes," and Gregory Scott Farber for "Soundprint and the ASA's International Noise Awareness Day campaign - results, what worked, and going forward."

The 178th meeting of the ASA was held in San Diego, California with 9 TCNS-led sessions and 65 papers presented and one, well attended, all-day workshop on Jet Noise Reduction, organized by TCNS members Kent Gee and Alan Wall from Brigham Young University. The workshop took place on Friday and was complemented by two sessions on Supersonic Jet Aeroacoustics the day before. A Technical Initiative in the amount of \$2,000 was proposed by members of the technical committee, and subsequently approved by ASA, to fund the cost of materials and software to develop a prototype for a wearable sound level meter, the details of which could be shared for promoting noise awareness to the public. TCNS members David Woolworth and Eric Reuter volunteered to develop a prototype in time for demonstration at the next ASA meeting. Three Young Presenters were honored for excellent papers that they presented in San Diego: Jonathan Broyles for "Perceived annoyance of Mach-cutoff flight

ground signatures compared to common transportation sounds,” Jacob Ward for “Spectral comparisons between ground runup and flyover operations of a high-performance military aircraft,” and Andrew Mitchell for “Making cities smarter with new soundscape indices.”

Due to the worldwide pandemic, the 179th meeting of the ASA, intended for Chicago, was postponed taking the place of the fall meeting originally planned to be held in Cancun, Mexico. However, all ASA committee meetings for the spring meeting were held virtually, including the open meeting for TCNS. Thanks to the hard work of ASA and volunteers, the Spring 2020 open meeting for TCNS was as well attended and productive as a physical meeting. A demonstration of the wearable sound level meter described above was provided by video.

Thanks to following people who have represented TCNS within the ASA during this time: Brigitte Schulte-Fortkamp on the Medals and Awards Committee, Alex Case on the Membership Committee, Aaron Vaughn on Student Council, Rich Peppin on ASACOS (Committee on Standards), and Christopher Struck, Standards Chair. For the Young Presenter Award, James Phillips coordinated both the Louisville and San Diego meetings. The JASA Associate Editors for Noise are Anurag Agarwal, Jordan Cheer, Sanford Fidell, Kirill Horoshenkov, Yun Jing, Alexandra Loubeau, David Michaud, William Murphy, and Alan Wall. The JASA Express Letters Associate Editors for Noise are Eddie Lau, Alexandra Loubeau, and Tracieanne Neilsen. The Editor for the Proceedings of Meetings in Acoustics is Kent Gee with Alan Wall and Cameron Fackler serving as associate editors. I also welcome the following new members to TCNS who have been selected to join their peers for the term ending in 2023: Sergio Beristan, Jeanine Botta, Joseph Keefe, Roderick Mackenzie, David Michaud, Ralph Muehleisen, Ed Okorn, Edward O’Neill, and Kieren Smith.

In conclusion, I wish to thank the members of TCNS for their participation and enthusiasm this past year, making my role as Chair an enjoyable experience. My apologies to anyone whose contribution I may have overlooked in the above report. Please don’t hesitate to let me know if I did. I look forward to continuing to serve as your Chair.

James E. Phillips, *Chair*
Technical Committee on Noise
May 2018 – May 2021.