

Computational Acoustics

This report summarizes activities of the Computational Acoustics Technical Specialty Group following the Minneapolis meeting (Spring 2018), to include the Victoria (Fall 2018) and Louisville (Spring 2019) meetings. The formation of the CA TSG was approved at the Minneapolis meeting. It provides a forum for researchers interested in numerical methods, optimization of calculations, benchmarking, and practical application of models. Additional information on the formation and purpose of the TSG can be found in the *Acoustics Today* “Sound Perspectives” article (<https://acousticstoday.org/technical-specialty-group-report-computational-acoustics-d-keith-wilson/>).

The CA TSG kicked off with its first official meeting in Victoria. There were 31 participants. Although the CA TSG had been formed too recently to plan its own special sessions for Victoria, there were many computationally related sessions at this meeting, including “Challenges in Computational Acoustics”, which was sponsored by PA and joint with AA, Noise, SP, and UA. It was organized by Matthew Blevins and myself.

At the 177th Meeting in Louisville, the CA TSG held its first special session, “Finite Difference Time Domain Method Across Acoustics”, which was jointly sponsored by BA, PA, UA, SP, and SAV, and organized by Michelle Swearingen, Jennifer Cooper, and Subha Maruvada. The TSG also jointly sponsored the UA session on “Uncertainty in Propagation Prediction.” I made a presentation in the Interdisciplinary Hot Topics session, on “Hot Topics in Computational Acoustics.” The second official TSG meeting was held in Louisville, with 30 participants.

With the formation of the CA TSG, JASA now also has a Computational Acoustics section, for which Nail A. Gumerov, Ying-Tsong Lin, and Nickolas Vlahopoulos serve as the Associate Editors. Vlahopoulos and myself are the AEs for JASA Express Letters.

Jennifer Cooper volunteered to serve as the CA TPOM representative starting with the San Diego (Fall 2019) meeting. The TSG plans to initiate a Young Presenter award starting with the Chicago (Spring 2020) meeting.

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Chair, 2018–2021