

This report covers the activities of the Technical Committee on Underwater Acoustics (TCUW) and its members during the period from July 2016 through June 2017.

The 172nd Meeting of the Acoustical Society of America was held at the Hilton Hawaiian Village Waikiki Beach Resort, Honolulu, Hawaii, 28 November–2 December 2016. This meeting was also the 5th Joint Meeting with the Acoustical Society of Japan. TCUW sponsored the following nine sessions: “Target Scattering” chaired by Kevin Williams with six contributed talks, “Underwater Acoustics and Acoustical Oceanography: Underwater Acoustics Studies in Asian Seas” co-chaired by Chi-Fang Chen and Ching-Sang Chiu with five invited talks and 25 contributed talks, “Underwater Acoustics, Acoustical Oceanography, and Physical Acoustics: Nonlinear Effects in Underwater Acoustics and Bubbles” co-chaired by Thomas Muir, John Esplin, and Tetsuya Kanagawa with eight invited talks and six contributed talks, “Underwater Acoustics, Noise and Acoustical Oceanography: Transmission Through the Air-Water Interface” co-chaired by Peter Dahl and David Dall’Osto with four invited talks and two contributed talks, “Underwater Acoustics: Inversion, Beam-Forming, and Calibration” chaired by Steven Stotts with seven contributed talks, “Underwater Acoustics: Seabed and Sea Surface Interactions” co-chaired by Charles Holland and Megan Ballard with nine contributed talks, “Underwater Acoustics, Signal Processing in Acoustics, and Acoustical Oceanography: Harbor Acoustics” co-chaired by Peter Stein and David Bradley with 17 invited talks and four contributed talks, “Underwater Acoustics: Ocean Ambient Noise: Sources, Variation, and Characterization” chaired by Ben Reeder with 12 contributed talks, and “Underwater Acoustics: Underwater Acoustic Propagation” chaired by Ahmad Awabi with 15 contributed talks. There was also a poster session chaired by Aubrey Espana with 12 contributed posters. The student paper award winners were Nikhil Mistry and Matthew Huber who received first and second place, respectively.

The 173rd Meeting of the Acoustical Society of America was held at the John B. Hynes Veterans Memorial Convention Center, Boston, Massachusetts, 25–29 June 2017. This meeting was also the 3rd Joint Meeting with the European Acoustics Association. TCUW sponsored the following 13 sessions: “Underwater Acoustics, Acoustical Oceanography, Signal Processing in Acoustics, Structural Acoustics and Vibration, Physical Acoustics and Biomedical Acoustics: Passive Sensing, Monitoring, and Imaging in Wave Physics,” co-chaired by Karim Sabra and Philippe Roux, with 17 invited talks and five contributed talks, “Underwater Acoustic Uncertainty,” chaired by Andrey Morozov, with four contributed talks, “Ambient Sound in the Ocean,” chaired by Peter Gersoft, with 10 contributed talks, “Sound Propagation and Scattering in Three-Dimensional Environments,” chaired by Ying-Tsong Lin and Frederic Sturm, with 13 invited talks and 22 contributed talks, “In Honor of Ira Dyer, 60 Years as an Innovator, Entrepreneur, and Visionary for Ocean Engineering” chaired by Arthur Baggeroer, Peter Mikhalvesky, and Philip Abbot with 11 invited talks and one contributed talk, “A Century of Sonar” chaired by Michael Ainslie and Kevin Heaney with nine invited talks and one contributed talk, “Acoustical Interaction with Ocean Boundaries and Targets” chaired by Derek Olsen with seven contributed talks, “Underwater Noise From Marine Construction and Energy

Production” co-chaired by Jim Miller and Paul Lepper with 19 invited talks and nine contributed talks, “Unmanned Vehicles and Acoustics” co-chaired by Erin Fischell and Martin Siderius with nine invited talks and six contributed talks, “Acoustical Localization, Navigation, Inversion, and Communication” chaired by Aijun Song with 12 contributed talks, “Infrasound in the Ocean and Atmosphere” co-chaired by Philippe Blanc-Benon and Oleg Godin with five invited talks and five contributed talks, and “Underwater Acoustic Propagation” chaired by Cathy Ann Clark with 11 contributed talks. There was also a poster session chaired by Vaibhav Chavali with 18 contributed posters. The student paper award winners were Brendan Nichols and Aaron Gunderson who received first and second place, respectively.

The chair thanks the many volunteers who make the activities of TCUW possible.