

Fall 2014 Meeting – Indianapolis, Indiana

Annual Report: Fall 2013 (San Francisco, CA) and Spring 2014 (Providence, RI)

The Acoustical Oceanography Technical Committee had a very productive year in 2013-2014. This annual report reviews events from the 166th and 167th meetings of Acoustical Society of America (ASA) in San Francisco, CA and Providence, RI.

The highlight of the San Francisco meeting was the 2013 Munk Award Lecture, presented by W. Stephen Holbrook of the University of Wyoming, entitled "Ten years of seismic oceanography: Accomplishments and challenges". The Munk Award and Medal are granted jointly by The Oceanography Society, The Office of Naval Research, and the Office of the Oceanographer of the Navy. The award was given for his use of low frequency seismic reflection profiling to image the water column has provided quantitative and novel insights into the structure and dynamics of internal waves, eddies and mixing processes. Steve Holbrook is honored as the father of the new field of "Seismic Oceanography". Also at the San Francisco meeting, AO sponsored two special sessions: 1) "Acoustics for Cabled Observatories," organized by Thomas Dakin (Ocean Networks Canada) and Bruce Howe (University of Hawaii), and 2) "Properties Trends, and Utilization of Ocean Noise," organized by Jennifer Miksis-Olds (ARL-Penn. State) and Zoi-Heleni Michalopoulou (New Jersey Institute of Technology). The AO Technical Committee would like to thank Jim Lynch for representing AO at the Technical Program Organizing Meeting held in San Francisco in July 2013, and for diverging from tradition and organizing a highly successful, joint AO and UW, poster session. The AO and UW student papers and posters were combined at the San Francisco meeting. Erin Fischell (MIT) won first prize in the competition for Best Student Paper for her poster entitled "Supervised machine learning for estimation of rough bottom anisotropy direction using bistatic acoustic scattered fields," and Sean Walstead (Scripps) was awarded second prize for his poster entitled "Surface wave shape inversion from forward scattered ocean acoustic data". Katherine Woolfe (Georgia Institute of Technology) won first prize in the competition for Best Student Paper for her presentation entitled "Passive acoustic thermometry of the deep water sound channel using ambient noise," and Tao Lin (New Jersey Institute of Technology) was awarded second prize for his presentation entitled "An inverse method for estimating sediment sound speed".

The highlight of the Providence meeting was the presentation of the 2014 Medwin Prize in Acoustical Oceanography, awarded to Andone Lavery, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts. This prize recognizes the accomplishments of young and mid-career scientists involved in research that addresses the effective use of sound in the discovery and understanding of physical and biological parameters and processes in the sea. Dr. Lavery presented the prize lecture, entitled "Title". Also at the Providence meeting, AO sponsored a very well-attended special session on "Using Acoustics to Study Fish Distribution and Behavior," organized by Kelly Benoit-Bird (Oregon State University) and Timothy K. Stanton (Woods Hole Oceanographic Institution). The AO Technical Committee would like to thank Tim Stanton for representing AO at the Technical Program Organizing Meeting held in Providence in January 2014. Craig Dolder (Appl. Res. Labs, The Univ. of Texas at Austin) won first prize in the competition for Best Student Paper for his presentation on "Extracting effective medium properties for fish schools from resonator and free-field measurements" and Adaleena

Mookerjee (Univ. of Michigan) was awarded second prize for her presentation on “Comparison of near-field acoustic coherent backscattering simulations with optics theory and experiments”.

This report is my first as Chair of the AO Technical Committee. I want to close by thanking the outgoing chair, Martin Siderius, for helping to make the transition as smooth as possible, and also by thanking all the many volunteers who make the activities of the AO Technical Committee possible. I look forward to working with the AO Technical Committee and the ASA community more broadly for the rest of my term as chair.

Andone Lavery, Chair Acoustical Oceanography

AO Website: <http://acosoc.org/TechComm/AOTC/>

List of committee members: <http://acosoc.org/TechComm/AOTC/members.html>