

## **ASA Spring 2019**

177<sup>th</sup> Meeting Acoustical Society of America  
13 – 17 May 2019

**Place:** Louisville, Kentucky/USA

**Title:** Binaural Measurement and Psychoacoustic Analysis – An Advantage for  
the Environmental Noise Research

**Session:** "Soundscape and its Application Based on the New Standard"

**Author:** Genuit, Klaus

**Abstract:**

The new ISO TS 12913-2 "Data collection and reporting requirements" describes a lot of new aspects how to analyze soundscape (e.g. environmental noise) and provides new tools for the measurement and analysis. Whereas the use of binaural recording and psychoacoustic analysis is well known in the field of product sound quality especially with respect to the automotive field, the application of these tools within the soundscape analysis is new. This paper illustrates based on different examples given from the field of environmental noise the superiority and advantage of these tools in comparison to the conventional measurement using an omnidirectional microphone calculating the A-weighted sound pressure level.