

Joint List of Publications from DFM and BKSV-DPLA

List of publications from 2015 - 2019

Refereed publications

S. Barrera-Figueroa, Free-field reciprocity calibration of measurement microphones at frequencies up to 150 kHz, Journal of the Acoustical Society of America **144**(4), pp 2575-2583, doi: 10.1121/1.506381 , (2018).

R. Barham, E. S. Olsen, D. Rodrigues, S. Barrera-Figueroa, E. Sadikoğlu and B. Karaböce, The calibration of a prototype occluded ear simulator designed for neonatal hearing assessment applications, Journal of the Acoustical Society of America **140**(2) doi: doi: 10.1121/1.4960517, (2016).

R. Nel, S. Barrera-Figueroa, D. Dobrowolska, Z. DeFillipo-Soares, A. K. Maina, C. Hof, AFRIMETS.AUV.A-S1: Final report : SUPPLEMENTARY COMPARISON, Metrologia **53**, doi: 10.1088/0026-1394/53/1A/09001, (2016).

A. Biber, A. Korakci, A. Golick, S. Robinson, G. Hayman, J. Ablitt, S. Barrera-Figueroa, S. Buogo, S. Mauro, F. Borsani, Calibration standards for hydrophones and autonomous underwater noise recorders for frequencies below 1 kHz: current activities of EMPIR "UNAC-LOW" project, Acta Imeko **7** (2), doi: 10.21014/acta_imeko.v7i2.542, (2016)

R. Barham, S. Barrera-Figueroa, and J. E. M. Avison, Secondary pressure calibration of measurement microphones, Metrologia **51**(3) p. 129-138 (2014).

Conference papers

S. Barrera-Figueroa, *Completing the traceability chain for airborne ultrasound*, International Congress on Acoustics (ICA), 2019.

S. Barrera-Figueroa, *Making pressure calibration easier – strategies for calibration of measurement microphones*, Internoise 2019, Madrid, Spain, 2019.

M. Enge, C. Hof, S. Barrera-Figueroa, *Establishing new types of LS2P microphones as reference standards*, Internoise 2019, Madrid, Spain, 2019.

V. Cutanda-Henríquez, P. Møller-Juhl, S. Barrera-Figueroa, *Modeling of measurement condenser microphones at low frequencies: numerical issues*, Internoise 2019, Madrid, Spain, 2019.

P. Møller-Juhl, V. Cutanda-Henríquez, S. Barrera-Figueroa, *On The Modeling Of Cavities At Low Frequencies With The BEM*, Internoise 2019, Madrid, Spain, 2019.

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S. Barrera-Figueroa, *Pressure calibration of WS3 microphones*, International Congress on Sound and Vibration, 2018.

S. Barrera-Figueroa, *Establishing traceability for airborne ultrasound measurements*, Euronoise 2018.

Jacob H. Winther and Torben R. Licht, *Primary calibration of Reference Standard back-to-back vibration transducers using modern calibration standard vibration exciters*, IMEKO 23rd TC3, 13th TC5 and 4th TC22 International Conference, 2017, Helsinki, Finland

S. Barrera-Figueroa, V. Cutanda Henriquez, and A. Torras-Rosell, *Environmental coefficients of the free-field sensitivity of measurement microphones*, Internoise 2017, Hong Kong, 2017.

V. Cutanda Henriquez, S. Barrera-Figueroa, and P. R. Andersen, *Boundary Element Method with Viscous and Thermal Losses: A Calibration Microphone Test Case*, 13th International Conference on Theoretical and Computational Acoustics, Vienna, Austria, 2017.

S. Barrera-Figueroa, V. Cutanda Henriquez, and A. Torras-Rosell, *A numerical method for determining the radial wave motion correction in plane wave couplers*, Internoise 2016, Hamburg, Germany, 2016.

V. Cutanda Henriquez, S. Barrera-Figueroa, and A. Torras-Rosell, *Static pressure and temperature coefficients of working standard microphones*, Internoise 2016, Hamburg, Germany, 2016.

A. Torras-Rosell and S. Barrera-Figueroa, *An acousto-optic method for free-field microphone calibration*, ICSV22, Firenze, Italy, 2015.

A. Torras-Rosell and S. Barrera-Figueroa, *A new method to characterize impulsive sources using acousto-optic interaction*, Inter-Noise 2015, San Francisco, USA, 2015.

V. Cutanda-Henriquez, S. Barrera-Figueroa, A. Torras-Rosell, and P. Møller-Juhl, *Study of the acoustical properties of a condenser microphone under an obliquely incident plane wave using a fully coupled three-dimensional numerical model*, Internoise 2015.

T.R. Licht, Jacob H. Winther and Sven Erik Salboel, *Calibration of vibration reference transducers with primary and secondary methods. Proposals for handling the dependence of high frequency response on mounting parameters*, XXI IMEKO World Congress "Measurement in Research and Industry" August 30 – September 4, 2015, Prague, Czech Republic

F. T. Agerkvist, A. Torras-Rosell, and R. I. McWalter, *Improvements in Elimination of Loudspeaker Distortion in Acoustic Measurements*, Proceedings of 138th International Audio Engineering Society (AES) Convention. Audio Engineering Society, 2015.