# AES 4th International Conference on Audio and Music Induced Hearing Disorders 2024

Copenhagen, Denmark 29 - 31 May 2024

ISBN: 978-1-7138-9715-6

### Printed from e-media with permission by:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571

Some format issues inherent in the e-media version may also appear in this print version.

Copyright© (2024) by the Audio Engineering Society All rights reserved.

Printed with permission by Curran Associates, Inc. (2025)

For permission requests, please contact the Audio Engineering Society at the address below.

Audio Engineering Society International Headquarters 551 Fifth Ave., Suite 1225 New York, NY 10176 USA

Phone: +1 212 661 8528

### www.aes.org

## Additional copies of this publication are available from:

Curran Associates, Inc. 57 Morehouse Lane Red Hook, NY 12571 USA Phone: 845-758-0400

Fax: 845-758-2633

Email: curran@proceedings.com Web: www.proceedings.com

# TABLE OF CONTENTS

Evaluation of Own Voice Perception While Using In-Ear Headsets	1
Development and Evaluation of a Real-Time Hearing Loss Simulation Platform	10
Localized Sound Zone with Directive Sound Source and Vibrotactile Shaker in Open Spaces	17
Prediction of Noise-Induced Permanent Threshold Shift (NIPTS) for Classical Musicians: LEX,8h Measurement-Based Analysis Among Music Students.  A.P. Pietrzak	25
Extensive Sound Level Measurements at Festivals	30
The Culture Changed; Now Let's Change it Back!	39
Beyond the Audiogram: Surprising Benefits of Teleaudiology for Music Industry Professionals	46
The Use of In-Ear Dosimetry to Understand Musicians Unique Sound Exposure in School-Aged Music Learners (MUSE)	53
Observing Its Long-Term Effects on a Short-Term, Multi-Day Evaluation of the Effectiveness of Hearing Aid Use	59
Embodied Sound: Full Frequency Vibrotactile and Vibroacoustic Sensation for Reduced Volume  Multimodal Music Experience  E. Castro	67
Attitudes and Beliefs Regarding Potential Hearing Damage at Music Events Among Young Adults in Nightlife Settings	69
Investigational Medicines for Hearing Loss Prevention: Status Update and Guidance for Musicians and Other Performing Artists	76

# **Author Index**