



AUDIO ENGINEERING SOCIETY

CALL for CONTRIBUTIONS

2016 AES INTERNATIONAL CONFERENCE ON HEADPHONE TECHNOLOGY

Aalborg, Denmark, August 24–26, 2016

<http://www.aes.org/conferences/2016/headphones/>



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More than 300 million pairs of headphones will be sold in 2015, and people are using headphones everywhere. The popularity of “smart and wearable” devices has driven developments in low-power processors and sensors that are enabling the augmentation of headphones with features more typically associated with hearing aids or smartphones. Therefore, this conference will focus on technologies for headphones with a special emphasis on the emerging fields of Mobile Spatial Audio, Personal Assistive Listening, and Augmented Reality. This conference will assemble scientists, developers, and practitioners who are involved in any head-worn hearing technology, be it in theory, technical design, application or evaluation. The conference will enable an interdisciplinary dialogue across the headphone and hearing aid industries.

The following keynote lectures will be given. Dr. Veronique Larcher, global director of strategic innovation at Sennheiser Electronic Corporation in the USA, will talk about new applications

for binaural immersive audio and how consumers really define headphone audio quality. Dr. Volker Hohmann, professor of signal processing for medical physics at the University of Oldenburg in Germany, will give a lecture on auditory signal processing for binaural assistive listening devices (ALDs). Dr. Wolfgang Klippel, honorary professor of electroacoustics at Technical University Dresden and owner of Klippel GmbH, will talk about the convergence between traditional headphone transducers and microdrivers. Dr. Andrew Bright, managing director of GoerTek Audio Technologies, will give a talk with an industry perspective on headphone technology R&D.

The AES International Conference on Headphone Technology will be held August 24–26, 2016 in Aalborg, Denmark. Aalborg is a vibrant city that hosts the young and ever-expanding University of Aalborg. Located on the shores of the beautiful Limfjord in northern Jutland, Aalborg is the fourth most populous city in Denmark.

PROPOSED TOPICS

Design

Headphone Transducers: Technology, Measurement, Microdrivers, Smart Control, Simulation
Personalization
Additional Sensors
Wearing and Listening Comfort

Applications

Augmented Reality
Mobile Spatial Audio
Personal and Assistive Listening

Binaural Techniques

Up-Mixing
Noise Control
Monitoring and Analytic Listening

Evaluation

Headphone Quality
Quality Standards
Automatic Quality Evaluation
Perceptual Audio Evaluation
Perceptual Targets

SUBMISSION INFORMATION

The organizing committee invites the submission of full papers between 4 and 8 pages by March 15, 2016 at h. An author’s kit, with formatting guidelines, will also be available at that site. All submitted papers will be double-peer-reviewed before selection. Papers and author information may be submitted starting from January 2016. The conference review committee will decide which papers are accepted, and authors will be informed of the decision by May 15, 2016. After revision, final versions of papers must be submitted by July 15, 2016.

Authors may indicate a preference to present their contributions as posters. Irrespective of that, and in favor of an attractive schedule, the organizing committee will decide which contributions will be given as talks or posters. Posters will be held during exclusive time slots and promoted by short introductory talks by poster presenters.

Additionally, the committee invites interested parties to propose demonstrations, workshops, or thematically suited product presentations. Email proposals should be sent to 2016HP_demos@aes.org by May 31, 2016. Acceptance notifications will be emailed by July 15, 2016. **Awards:** Awards for Best Paper, Best Poster, and Best Demonstration will be presented at the conference.

Registration: Any author wishing to attend the conference must pay the registration fee. At least one author of each contribution must attend to make a presentation or it will not be included in the proceedings. **Sponsorship:** A three-stage sponsorship program (Silver, Gold, and Platinum) will be in place for this conference including, for example, exhibition space and complementary registration. Detailed information will appear on the conference website.

IMPORTANT DATES

Deadline for paper/poster proposals: **2016 March 16**

Accepted authors notified by: **2016 May 15**

Deadline for demonstration proposals: **2016 May 31**

Accepted demonstrations notified by: **2016 June 30**

Deadline for final manuscripts and early registration: **2016 July 15**

Open Access

Authors will have the option of submitting Open Access papers.

