

Date

18 March 2019

Joined with the 45. Annual Meeting of
German Acoustical Society

Location

Stadthalle Rostock
Südring 90
18059 Rostock
Germany
www.messe-und-stadthalle.de

Registration

Online via: www.ears-project.eu
Deadline: 31 January 2019

Organisation

Katja Rossignol
(info@ears-project.eu)

Fees

No additional fees for the workshop
DAGA participants are welcome
Including refreshments

Hotel

<http://www.daga2019.de/en/congress-venue/>



EMPIR Joint Research Project
*Metrology for modern
hearing assessment and
protecting public health from
emerging noise sources*

Project Coordination:

Dr. Christian Koch
Physikalisch-Technische
Bundesanstalt (PTB)

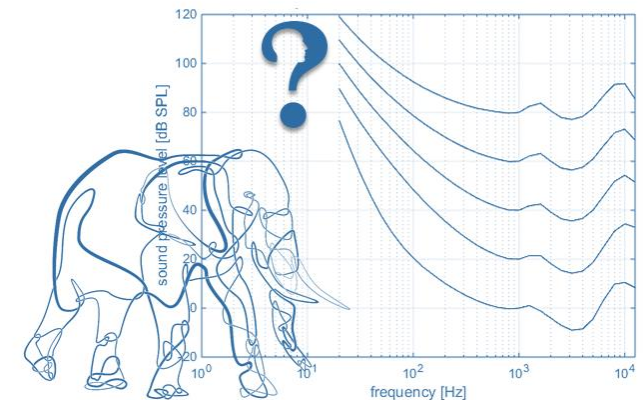
Project Contact:

Email info@ears-project.eu
Web: www.ears-project.eu

Workshop

Perception and impact of infrasound on humans

18 March 2019, Rostock
Germany



Issue

In our daily and occupational life, many sources emit infrasound because of their function or unintended. This is particularly the case for the increasing traffic noise emission or machines like pumps or air conditioning systems. There are numerous indicators that sound at these frequencies can be perceived and affects people. Within the EU-funded international project EARS II research was performed to improve the objective rationale of the auditory perception of infrasound using audiological methods, neuroimaging, and medial diagnosis. A project commissioned by the German Environment Agency (UBA) investigates the reaction of humans on different infrasound sources and stimuli. Other running activities deal with loudness and annoyance investigations for infrasound. The workshop intends to bring together current research activities accomplished in international projects. So, the workshop will contribute to the question whether these sounds can be of any risk for the hearing system or limiting the quality of life by annoyances.

This workshop will be held the day before the annual meeting of the German Acoustical Society. It gives the opportunity to share the final results of the project with many interested persons and to discuss together all related issues of the topics. For this purpose the workshop schedule contains scientific talks and structured discussion sessions for a fruitful scientific exchange.

Contributions and Program

Chair

Christian Koch, Physikalisch-Technische Bundesanstalt, Braunschweig

Scientific Committee

Detlef Krahe (Universität Wuppertal)
Torsten Marquardt (University College London)
Thomas Myck (Umweltbundesamt, Dessau)
Stefan Uppenkamp (Universität Oldenburg)

Continuation:

Monday 18 March 2019

(last part)

Free open discussion of all issues: The three speakers will have their talks on posters available at different points of room.

Including refreshments, tea and coffee

Closing

Program

Monday 18 March 2019

(starting 13:00 pm)

Christian Koch: Introduction

Keynote lecture:

Thomas Myck, "Infrasound: What we know, what we don't know and what we would like to know"

Presentations:

Oliver Behler, "Loudness and unpleasantness of infrasound: An fMRI study"

Elisa Burke: "Hearing thresholds for combined audible sound with infrasound"

Torsten Marquardt, "Cochlear acoustics below 100 Hz: An 3D-finite element model simulation"

Free open discussion of all issues: The three speakers will have their talks on posters available at different points of room.

Including refreshments, tea and coffee

Presentations:

Leonie Ascone Michelis: "Impact of infrasound on humans: longitudinal fMRI study"

Valtteri Hongisto: "Annoyance of low-frequency sound"

Detlef Krahe: "Impact of infrasound on humans"
