Keynotes

Bech: Can human impressions of audio quality be quantified objectively?

Blanes Guardia: Implementation of the environmental Noise Directive, exploitation of results in Europe and its next phase

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Brunskog: Energy based prediction models for building acoustics

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Dau: Human auditory signal processing in complex acoustic environments

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Gade: Auditorium projects in Denmark since year 2000: room acoustic research and experience materialized

Building and Room Acoustics

Adelman-Larsen: On a new, on/off broadband absorber system for music schools and other multipurpose facilities

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Bard: Field measurements of Vibrations in a wooden floor

Brereton: The Virtual Singing Studio: A loudspeaker-based room acoustics simulation for real-time musical performance

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Dickow: Experimental Research of Vibration Transmission in Wooden Junctions with a View Towards Statistics

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Domadiya: Vibration Transmission within Lightweight Elements with Periodic Stiffeners: Response to Impact Loading

Foteinou: The Control of Early Decay Time on Auralization Results based on Geometric Acoustic Modelling

Gade: Sound levels in rehearsal and medium sized concert halls; are they too loud for the musicians?

Hagberg: AcuWood - A new knowledge transfer portal

Hagberg: AkuLite and AcuWood - summary of results

Halmrast: Room Acoustics; Projects in Scandinavia

Isebakke: EDGE DIFFRACTION IMPLEMENTATION BY SEMI-TRANSPARENT SURFACES IN GEOMETRICAL ACOUSTICS

Jordan: 45 years in acoustics: A personal account

Jordan: Whatever went wrong in Copenhagen?

Kristiansen: Effects of classroom acoustics on teachers' well-being and perceived disturbance by classroom noise

Kristiansen: A field study of school teachers’ noise exposure, teachers’ speech levels and duration of speech during classroom teaching

Kylliäinen: Rating of floors with the proposed impact sound reduction index

Kaasik: The design for new building of Estonian Public Broadcasting ERR

Laird: The use of Support for calibration of stage acoustic laboratory experiments

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Lotzfeldt: Acoustics in Open-Plan Offices with Thermo Active Ceilings - a Case Study

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Lund: Hearing and noise annoyance in schoolteachers

Lund: No change in cognitive test performance following exposure to noise in an open-office simulation study

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Moen: Requirements and solutions for universal design

Montero: Vibratory investigation of a fiber-reinforced concrete floor supported by wooden beams: part II.

Möller: Korundi - The new home for the Lappland chamber orchestra

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Nielsen: Noise control in day care centres - methods and results

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Ognedal: The new premises for the Kulturskolen and the Katedral skole in Stavanger

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Persson: Classroom acoustics and hearing ability as determinants for perceived social climate and intentions to stay at work

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Petersen: Music-school concert hall – flutterecho treatment

Petersen: Acoustic design of open plan schools – Two case studies and comparison with requirements

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Rasmussen: Reverberation time in class rooms – Comparison of regulations and classification criteria in the Nordic countries

Rasmussen: Sound classification of dwellings in the Nordic countries – Differences and similarities between the five national schemes

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Riionheimo: Logomo – A new multi-purpose hall in Turku, Finland

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Rindel: Acoustical capacity as a means of noise control in eating establishments

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Ründva: Sound insulation of newly-built residential housing stock of Estonia

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Sjöström: Vibratory investigation of a fiber-reinforced concrete floor supported by wooden beams: part I.

Skålevik: Music room acoustics: Towards a Norwegian standard – Critical parameters

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Skålevik: Concert hall parameters – a status report

Tishko: The renovation of the Great hall of the Moscow P. I. Tchaikovsky Conservatory

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Turunen-Rindel: Norwegian acoustic criteria for accessibility for all

Electro-acoustics

Cutanda Henriquez: Modeling measurement microphones using BEM with visco-thermal losses

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Pedersen: Thermal Modelling of Loudspeaker unit - and efficiency considerations

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Thorborg: Traditional and Advanced Loudspeaker Models

Thorborg: Measurement of the Advanced Loudspeaker Parameters using Curve-Fitting Method

Environmental Acoustics

Freneat: A unique noise monitoring terminal optimised for either community or airport noise incidences

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Brekke: THE NORWEGIAN HIGH SPEED RAIL STUDY

Di Napoli: Assessing aerodynamic amplitude modulation from wind turbine noise

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Hoare: Simulation of Acoustic Wave Propagation in 3-D Sonic Crystals based on Triply Periodic Minimal Surfaces

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Luik: STRATEGIC NOISE MAPPING OF CITY OF TALLINN, ESTONIA

Olafsen: Difference in levels of groundborne noise and vibrations between the T-1300 and MX-3000 metro trains in Oslo

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Olafsen: Measurements of facade sound insulation using a loudspeaker or railbound vehicles as sources

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Pigasse: Influence of barrier tops on noise levels: new BEM calculations

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Rasmussen: Changing the superstructure to minimise noise and vibrations

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Søndergaard: Noise from Wind Turbines - measurement and prediction including low frequency noise

General Acoustics

Jensen: Numerical study of acoustic streaming and radiation forces on micro particles

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Løvstad: Detection of localised corrosion in pipes using ultrasonic guided waves

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Olsen: 3D Sound in the Telepresence Project BEAMING

Instrumentation and measurement techniques

Granhäll: Calibration of reverberation time instruments

Jessen: A sound reflector for simplifying sound intensity measurements

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Sjödin: Minimizing speech contribution using different microphone noise dosimeter positions

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Sjøj: Noise mapping inside a car cabin

Kloow: Acoustic eraser used with the acoustic camera on disturbing sources

Machinery Acoustics

Kinnari: Adjustable epoxy based vibration damping material for constrained-layer systems

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Klaveness: Haven: Temporary Living Quarters for Ekofisk Field

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Mikkelsen: Helicopter Noise Control in Living Quarter Platform: Full Scale Mockup Tests

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Ognedal: The noise project of the Norwegian Oil Industry

Palacios: Qualification of Duct Resonator Array for Noise Reduction in Offshore Installations

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Rasmussen: Musculoskeletal modelling of low-frequency whole-body vibrations

Psychoacoustics

Christiansen: Speech transduction based on linguistic content

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Christiansen: A physiologically inspired model of auditory stream segregation based on a temporal coherence analysis

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Daugaard: Speech as input for technical measures

Gran: Effect of microphone position in hearing instruments on binaural masking level differences

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Pedersen: Speech in noise test based on a ten-alternative forced choice procedure

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Sjödin: Tinnitus, noise and health effects in preschool environments

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Tornvig: Can components in distortion-product otoacoustic emissions be separated?