

BALTIC-NORDIC ACOUSTICS MEETING 2024 – PROGRAM

| BNAM 2024, May 22-24, Hanasaari, Espoo | | | |
|---|---|--|---|
| Wednesday 22.5.2024 | | | |
| | | Celsius | Kullager |
| 8:50 | OPENING | | |
| 9:10 | Steindór Gudmundsson (Keynote) | Acoustic regulations and quality classes -- Experience from over 35 years of collaboration in the nordic countries | |
| | Room Acoustics, Chair: Henrik Möller, Bård Støfringsdal, Tapio Lokki | | Environmental noise measurements and simulations + industrial noise, Chairs: Laimonas Ratkevičius, Deniss Mironovs |
| 9:50 | Marko Horvat and Kristian Jambrošić | Acoustic intervention in the French pavilion of the Student Centre in Zagreb as a protected cultural heritage building | Jarkko Keinänen, Olli Malmi, Kari Saine, Claus Paro, Aki Kinnunen and Pauli Valkjärvi |
| | | | Dynamic properties of wire rope and rubber isolators at high frequency range in engine isolation |
| 10:10 | Yann Jurkiewicz, Vincent Berrier and Eckhard Kahle | Turku Fuuga – Acoustic Design of an Intimate and Immersive Concert Hall | Daudel Tchatat Ngaha and Kjell Eivind Frøysa |
| | | | Effects of non-uniform flow on a sound field generated by a finite-size uniform piston |
| 10:30 | coffee | Tetra | coffee Tetra |
| 10:50 | coffee | Tetra | coffee Tetra |
| 11:10 | Octávio Inácio, Filipe Martins and Daniel José | Finite-difference time domain calculations of acoustic phenomena applied to concert hall design | Kari Saine, Antti Leskinen, Tero Korhonen, Roy Hjort and Zengxin Gao |
| | | | Advanced method for workplace noise analysis |
| 11:30 | Ólafur Pjetursson, Finnur Pind and Cheol-Ho Jeong | New Opportunities in Room Acoustics Simulations Using Wave Based Technology | Christian Bergfjord Mørck, Nicolas Sogg, Helena Gabriella Axelssone and Ingunn Milford |
| | | | Comparison of results from road noise measurements and road noise calculation methods CNOSSOS-EU, Nord2000Road and NBV96 |
| 11:50 | Henrik Möller, Jukka Pätynen and Sami Reina | Renovating the Encore hall using electro-acoustic enhancement systems | Johan Hallimäe |
| | | | A city designed using sound - A tool to make spatial decisions |
| 12:10 | Lukasz Blasinski and Jedrzej Kocinski | Perception of reverberation length in rooms with an Reverberation Enhancement System | Laimonas Ratkevičius and Steve Mitchell |
| | | | Aircraft noise modelling with AEDT |
| 12:30 | Matias Remes and Perttu Korhonen | Renovation of Finnish Modern Theatres – Acousticians' Experiences from the Past 10 Years | Unto K. Laine |
| | | | Magneto-acoustic triangulation method for electric discharge localization in the atmosphere |
| 12:50 | John O'Keefe | Applications of a Zone to Zone Reflector Optimisation Routine | Mikko Kylliäinen |
| | | | Finnish acoustician Paavo Ami (1905–1969) |
| 13:10 | lunch | Restaurant (2nd floor) | lunch Restaurant (2nd floor) |
| 13:30 | lunch | Restaurant (2nd floor) | lunch Restaurant (2nd floor) |
| 13:50 | lunch | Restaurant (2nd floor) | lunch Restaurant (2nd floor) |
| 14:10 | Jens Holger Rindel (Keynote) | Room acoustic measurement methods in the past, present and future, including the importance of the ISO 3382 series | |
| 14:50 | Henrik Möller and Lukasz Biasiński | Room acoustic measurements in halls with electro-acoustic enhancement systems | Jukka Pätynen, Python Workshop |
| 15:10 | Petri Lehto, Henrik Möller, Jukka Pätynen, Javier Bolanos, Perttu Laukkanen, and Sara Vehviläinen | Fine tuning of the Sibelius hall stage acoustics | |
| 15:30 | Jorge Torres Gomez, Magne Skålevik, and Mattias Hill | Temperature effects on ice rink sports halls | |
| 15:50 | coffee | Tetra | coffee Tetra |
| 16:10 | coffee | Tetra | coffee Tetra |
| 16:30 | Anatoly Livshits, Aleksander Fadeev and Natalia Shirgina | Assessment of the influence of the method of fastening decorative and finishing panels on the fund of low-frequency sound absorption in a concert hall | Jukka Pätynen, Python Workshop continues |
| 16:50 | Simen Helbæk Kjølberg | Sound Levels at a Clarinetist's Ears During Solitary Practice | |
| 17:10 | Andrzej Klosak, Bartłomiej Ziarko, Katarzyna Dusza and Dominika Woźniak | Polish National Television production studios: acoustic design and performance | |

BALTIC-NORDIC ACOUSTICS MEETING 2024

| Thursday 23.5.2024 | | | | | |
|--------------------|--|---|--|---------------------------------------|--|
| | Celsius | | Kullager | | Blixtläs |
| | Building acoustic regulations and classification in the Nordic and Baltic countries, Chairs: Birgit Rasmussen, Tønnes A. Ognedal | | Workshops | | Workshops |
| 8:30 | | | Claus Lynge Christensen: ODEON | | Torbjörn Kloow, Kari Pesonen: Dosimeter Workshop |
| 8:50 | Birgit Rasmussen and Claus Møller Petersen | Compliance procedures for sound insulation between dwellings in new housing – Rules according to Danish regulations & Experiences from practice | | | |
| 9:10 | Manu Rönkkö and Liisa Kilpilehto | Outdoor event noise levels and limits | | | |
| 9:30 | Birgit Rasmussen, Liisa Sell and Lars Sommer Søndergaard | Field tests of low noise levels from MVHR ventilation systems – Overview obstacles and pilot test of test procedure improvement | | | |
| 9:50 | Hassan Al-Ramadani | Acoustics in green buildings | | | |
| 10:10 | Mikko Kylliäinen, Simo Laitakari, Timo Huhtala, Matias Remes, Pekka Taina, Johannes Usano, Ville Veijanen, Janne Hautsalo and Oskar Lindfors | Revised Finnish standard SFS 5907:2022 on acoustical design and quality classes of buildings | | | |
| 10:30 | coffee | Tetra | coffee | Tetra | |
| 10:50 | coffee | Tetra | coffee | Tetra | |
| 11:10 | coffee | Tetra | Birgit Rasmussen, Tønnes A. Ognedal: Building acoustic regulations and classification workshop | | |
| | Field measurements of Room acoustic parameters – Control measurements, Chairs: Mads Bollberg, Magne Skålevik | | | | |
| 11:30 | Karin Norén-Cosgriff and Jörgen Johansson | Guideline limit values for vibration to avoid damage to structures and natural slopes. Revision of Norwegian Standard NS 8141 | | | |
| 11:50 | Deniss Mironovs and Oļivers Tarvids | Immersive sound system showroom acoustical design in existing industrial premises | | | |
| 12:10 | Maria Quinn and Anne Pollet | Acoustics in a modular operating theatre | | | |
| 12:30 | Mads Bollberg and Ingvar Jónsson | Effect of furniture in reverberation time measurements | | | |
| 12:50 | Mads Bollberg and Ingvar Jónsson | Repairs on rendered sound absorptive ceilings and the effect on their acoustic performance | | | |
| 13:10 | lunch | Restaurant (2nd floor) | lunch | Restaurant (2nd floor) | |
| 13:30 | lunch | Restaurant (2nd floor) | lunch | Restaurant (2nd floor) | |
| 13:50 | lunch | Restaurant (2nd floor) | lunch | Restaurant (2nd floor) | |
| 14:10 | Tønnes A. Ognedal (Keynote) | Acoustic properties to be included with new development of housing sales reports? | | | |
| | Field measurements of Room acoustic parameters – Control measurements, Chairs: Mads Bollberg, Magne Skålevik | | Workshops | | |
| 14:50 | Christina Kjær, Christer Volk and Cheol-Ho Jeong | Perceptual Evaluation of Room Acoustic Simulation and Measurements | Patrick Grah: COMSOL workshop | | |
| 15:10 | Łukasz Błasiński and Jędrzej Kociński | Localisation of sound sources reproduced by immersive and stereo sound system | | | BUS TOUR, "CITY SOUNDSCAPE EXHIBITION" |
| 15:30 | Henrik Möller and Jukka Pätynen | Spatial acoustic measurements in concert halls with a reduced virtual orchestra | | | |
| 15:50 | coffee | Tetra | coffee | Tetra | |
| 16:10 | coffee | Tetra | coffee | Tetra | |
| 16:30 | Thomas Rittenschober and Mikko Halonen | Robust 3D Localisation of Anomalies in the Reverberation Time Signal | Patrick Grah: COMSOL workshop continues | | |
| | Vibration in infrastructure, Chair: Mats Heikkinen | | | | |
| 16:50 | Minna Santaholma, Timo Peltonen, Mats Heikkinen, Jukka Pätynen and Lauri Vapalahti | Optimising Railway Track Vibration Isolation by Matching Ground-Borne Noise Level Data to Train Location in a Tunnel | | | Torbjörn Kloow, Kari Pesonen: Dosimeter Workshop |
| 17:10 | Pekka Taina, Vesa Vähäkuopus and Jarkko Punnonen | Pile supported slab mitigating vibration under and next to a railway line | | | |
| 18:00 | Dinner, arriving from 18.00, start at 19.00 | Vanha Ylioppilastalo, Helsinki | Dinner | Vanha Ylioppilastalo, Helsinki | |

BALTIC-NORDIC ACOUSTICS MEETING 2024

| Friday 24.5.2024 | | | |
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| Celsius | | Kullager | |
| Health effects of noise, Chair: Valtteri Hongisto, Maria Quinn | | Workshops | |
| 8:30 | Magne Skålevik | Sound levels in symphony orchestra musicians | |
| 8:50 | Valtteri Hongisto, Jukka Keränen and Jenni Radun | Active noise-cancelling headphones: influence on performance, stress, and experience in work context | Finnur Pind: TREBLE, room acoustics modeling workshop |
| 9:10 | Antti Kuusinen and Valtteri Hongisto | Predictors of noise annoyance and penalty of spectrally different wideband noises | |
| 9:30 | Lars Bramsløw | An auditory loudness model with hearing loss | |
| 9:50 | Valtteri Hongisto, Henna Maula and Jenni Radun | Stress effects of impulsive noise - a medical laboratory experiment | |
| 10:10 | Veronica Amodeo, Simone Secchi and Luca Marzi | Acoustic comfort assessment in hospital wards: measuring procedures and parameters | |
| 10:30 | Valtteri Hongisto, Reijo Alakoivu, Antti Kuusinen and Jukka Keränen | Psychoacoustic experiment in BNAM 2024 conference | |
| 10:50 | coffee | Tetra | coffee Tetra |
| 11:10 | coffee | Tetra | coffee Tetra |
| 11:30 | Klas Hagberg (Keynote) | Sustainable wooden buildings -- opportunities for good indoor acoustics | |
| Building acoustics and noise from service equipment in buildings: modelling, calculations and measurements, Chair: Johannes Usano | | Workshops | |
| 12:10 | Ville Kovalainen, Jesse Lietzén, Benjamin Oksanen and Giovanni Hawkins | Structure-borne vibration generated by a pallet jack exiting a service elevator | TBA: SoundPLAN workshop |
| 12:30 | Jukka Keränen, Valtteri Hongisto and Giovanni Hawkins | Survey measurement of impact sound insulation of concrete walls | |
| 12:50 | Mikko Mantri Roininen, Oskar Lindfors and Mats Heikkinen | Gymnasium activity noise in residential and educational buildings | |
| 13:10 | lunch | Restaurant (2nd floor) | lunch Restaurant (2nd floor) |
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| 13:50 | lunch | Restaurant (2nd floor) | lunch Restaurant (2nd floor) |
| 14:10 | Archil Cheghelidze, Nikoloz Tcheghelidze and Henrik Möller | Acoustic design of Hotels - Comparison between different hotel brand acoustic requirements | Johan Hallimäe: Rhino/Grasshopper workshop |
| 14:30 | Jose Cucharero, Kari Kammiövirta, Marko Makkonen, Tuomas Hänninen and Tapio Lokki | The end justifies the means – Sprayed sound-absorbing coating on non-acoustic materials. | |
| 14:50 | Johannes Usano and Joonas Koskimäki | Structure borne noise emitted by building service equipment: laboratory measurements and modelling | |
| Wooden buildings, Chair: Klas Hagberg, Alain Bradette | | | |
| 15:10 | Marina Rodrigues, Paulo Pinto and Reinhilde Lanoye | Harmonizing sustainability & acoustics: challenges in mass timber construction | |
| 15:30 | Paola Brugnara, Alice Speranza, Luca Barbaresi, Vincenzo Pettoni Possenti and Chiara Trucchi | Improving sound transmission in timber buildings: the role of flexible interlayers | |
| 15:50 | Jesse Lietzén, Ville Kovalainen, Mikko Kylliäinen and Sami Pajunen | FEM-based simulation procedure to predict impact sound insulation of a timber floor | |
| 16:10 | Closing | | |

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