

BALTIC-NORDIC ACOUSTICS MEETING 2024 – PROGRAM

BNAM 2024, May 22-24, Hanasaari, Espoo				
Wednesday 22.5.2024				
	Celsius		Kullager	
8:30	OPENING			
8:40	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	
9:20	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
9:40	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
10:00		Company introductions, 2min / exhibitor, first 14 companies		
10:30	coffee	Tetra	coffee	Tetra
11:00		Company introductions, 2min / exhibitor, last 9 companies		
11:20	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
11:40	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
12:00	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
12:20	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
12:40	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
13:00	John O’Keefe	Applications of a Zone to Zone Reflector Optimisation Routine	Mikko Kylläinen	Finnish acoustician Paavo Arni (1905–1969)
13:20	lunch	Restaurant (2nd floor)	lunch	Restaurant (2nd floor)
13:40	lunch	Restaurant (2nd floor)	lunch	Restaurant (2nd floor)
14:00	lunch	Restaurant (2nd floor)	lunch	Restaurant (2nd floor)
14:20	Jens Holger Rindel (Keynote)	Room acoustic measurement methods in the past, present and future, including the importance of the ISO 3382 series		
15:00	Henrik Möller and Lukasz Blasinski	Room acoustic measurements in halls with electro-acoustic enhancement systems	Jukka Pätynen, Python Workshop	
15:20	Petri Lehto, Henrik Möller, Jukka Pätynen, Javier Bolanos, Perttu Laukkanen, and Sara Vehviläinen	Fine tuning of the Sibelius hall stage acoustics		
15:40	Jorge Torres Gomez, Magne Skålevik, and Mattias Hill	Temperature effects on ice rink sports halls		
16:00	coffee	Tetra	coffee	Tetra
16:20	coffee	Tetra	coffee	Tetra
16:40	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	
17:00	Simen Helbæk Kjølborg	Sound Levels at a Clarinetist’s Ears During Solitary Practice		
17:20	Andrzej Klosak, Bartłomiej Ziarko, Katarzyna Dusza and Dominika Woźniak	Polish National Television production studios: acoustic design and performance		

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Thursday 23.5.2024					
	Celsius		Kullager		Blixtås
	Building acoustic regulations and classification in the Nordic and Baltic countries, Chairs: Birgit Rasmussen, Tønnes A. Ognedal		Workshops		Workshops
8:30			Claus Lyng 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 Olivers 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 Bolberg and Ingvar Jónsson	Effect of furniture in reverberation time measurements			
12:50	Mads Bolberg 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	Lukasz Blasiński 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	

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Friday 24.5.2024			
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 Bramslov	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 Tchegelidze and Henrik Möller	Acoustic design of Hotels - Comparison between different hotel brand acoustic requirements	Johan Hallimäe: Rhino/Grasshopper workshop
14:30	Jose Cucharero, Kari Kammiovirta, 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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