

# BNAM 2014, June 2-4, Tallinn

Monday 2.6.2014

	Auditorium Maximum A002	Room A046
9:00	Exhibition setup starts	Exhibition setup starts
10:00	Registration starts	Registration starts
11:40	<b>OPENING</b>	
12:10	<b>Linda Madalik</b> <b>(Keynote)</b>	
	<b>Historical overview of room acoustics design in Estonia</b>	
	<b>Acoustics of buildings and rooms for music rehearsal and performance, Chairs: Jens-Holger Rindel, Henrik Möller</b>	<b>Environmental noise close to military areas, Chair: Timo Markula</b>
13:00	Jens Holger Rindel <i>Rooms for music – Acoustical needs and requirements</i>	Øystein Valdem <i>Investigation of the non-linear ground effects from detonations</i>
13:20	Olli Salmensaari, Anssi Ruusuvoori, Henrik Möller and Lauri Vikström <i>The musical education facilities at the Helsinki Music Centre</i>	Ulf Tengzelius and Brodd Leif Anderson <i>Artillery shooting noise prediction tool for the Swedish Armed Forces</i>
13:40	Magne Skålevik <i>Rehearsal room acoustics for the orchestra musician</i>	Timo Markula and Tapio Lahti <i>Vibration induced by heavy weapons and explosions</i>
14:00	<b>Exhibition opening Exhibitors</b>	
14:20	<b>Lunch</b>	<b>Lunch</b>
	<b>Atrium A104</b>	<b>Atrium A104</b>
15:20	Heikki Tuominen, Russ C Palmer, Ilmo Korhonen and Stina Ojala <i>Evidence-based study on performance environment for people with and without cochlear implants (CI)</i>	Lars Nordin <i>The work on revised limits for shooting noise from small firearms in Norway</i>
15:40	Janne Riionheimo, Anni Haataja and Henrik Möller <i>Renovation of the music education facilities of the University of Lapland</i>	Waseim Alfred and Bo Madsen <i>Noise from the impact between the bullet and the target frames</i>
16:00	Henrik Möller, Anni Haataja and Tapio Ilomäki <i>Campus Allegro</i>	Tapio Lahti and Timo Markula <i>Abatement of shooting range noise in Finland</i>
16:20	<b>coffee</b>	Waseim Alfred and Bo Madsen <i>Determination of the absorption coefficient for the materials used on the bullet trap screen in shooting ranges AND Measurement of the attenuation effect using mobile shooting tunnel in the shooting ranges</i>
	<b>Atrium A104</b>	
16:40	<b>coffee</b>	<b>coffee</b>
	<b>Atrium A104</b>	<b>Atrium A104</b>

<b>17:00</b>	<b>Environmental noise, Chair: Mikko Kylliäinen</b>		<b>coffee</b>	<b>Atrium A104</b>
	Mihkel Toome	<i>Measurement of light rail ballast properties</i>	<b>General acoustics I, Chair: Vesa Välimäki</b>	
<b>17:20</b>	Ilkka Rekola	<i>Noise reducing pavements in Helsinki: results from measurements</i>	Montserrat Pàmies-Vilà, Dmitri Kartofelev, Mirko Mustonen, Anatoli Stulov and Vesa Välimäki	<i>High-speed line camera measurements of a vibrating string</i>
<b>17:40</b>	Ilkka Niskanen	<i>Environmental Noise mapping of the Tampere City</i>	Adam Fox	<i>Helicopter Pad Isolation - Karolinska Institute Stockholm</i>
<b>18:00</b>	Mats Carré	<i>Auralization of Road Traffic Noise</i>	Tonnes A Ognedal and Reidulf Klovning	<i>Occupational Noise in the Norwegian oil industry</i>
<b>18:20</b>	Przemyslaw Lewicki and Maciej Strykiewicz	<i>The influence of various calculation methods on estimated number of people living in dwellings which are exposed to certain noise levels.</i>	Jorge Torres and Christopher Gehe	<i>Vibration and acoustic problems in multi-purpose buildings with long spans</i>
<b>19:00</b>	<b>Reception at KUMU</b>	NAA 60y anniversary	<b>Reception at KUMU</b>	NAA 60y anniversary
<b>22:00</b>	<b>Buses back to hotels</b>		<b>Buses back to hotels</b>	

**Tuesday 3.6.2014**

Auditorium Maximum A002		Room A046		
<b>Acoustics of buildings and rooms for music rehearsal and performance, Chairs: Jens-Holger Rindel, Henrik Möller</b>		<b>Wind turbine noise, Chairs: Carlo Di Napoli, Denis Siponen</b>		
<b>9:00</b>	Steindor Gudmundsson	<i>Sound transmission of amplified music between coupled houses. A case history.</i>	Olof Öhlund and Conny Larsson	<i>Wind turbine sound propagation in the atmospheric boundary layer- comparison between measurements and models</i>
<b>9:20</b>	Tor Halmrast	<i>When source is also a receiver</i>	Thomas Sørensen and Lars Sommer Søndergaard	<i>Sensitivity analysis of NORD2000 calculations when applied to the new Finnish guideline</i>
<b>9:40</b>	Gerda Kaasik and Henrik Möller	<i>Room acoustic conditions in the Estonian Concert halls</i>	Torbjörn Kloow	<i>Wind power plants and low frequency applications for the acoustic camera</i>
<b>10:00</b>	<b>coffee</b>		Conny Larsson and Olof Öhlund	<i>Amplitude modulated sound from wind turbines during different weather</i>
<b>10:20</b>	<b>coffee</b>		<b>coffee</b>	
<b>10:40</b>	Heikki Tuominen and Juho Liski	<i>Acoustical studies in the Finnish House of Nobility</i>	<b>coffee</b>	
<b>11:00</b>	Claus Møller Petersen	<i>Bass-absorption using the corners in rooms with frequency-independent reverberation time</i>	Matthias Hintzsche	<i>Noise mapping and noise action planning in Germany</i>
<b>11:20</b>	Niels Werner Adelman-Larsen	<i>New ON/OFF absorption technique that includes low frequencies</i>	Olli Kontkanen	<i>Improving accuracy of environmental noise exposure assessment methods</i>

11:40		Zengxin Gao, Antti Leskinen, Aures – The Advanced Environment Noise Monitoring System Kari Saine and Roy Hjort
12:00	Lunch	Lunch
13:00	<b>Jesper Hvass Schmidt (Keynote)</b>	<b>Health related effects in relation to noise exposure from wind turbines and other noise sources</b>
	<b>Noise at work, Chair: Heli Koskinen</b>	
14:00	Stig Arlinger	Noise and hearing impairment - beware of TTS!
14:20	Ulf Rosenhall, Ann-Cathrine Lindblad, Bjorn Hagerman and Ake Olofsson	Antioxidants and NIHL in research animals and in humans – The dilemma of contradictory findings
14:40	Rauno Pääkkönen, Kari Saine and Tapani Ollila	Discussion on noise control at workplaces
15:00	coffee	coffee
15:20	coffee	coffee
15:40	Liisa Kilpi, Sara Vehviläinen and Henrik Möller	Acoustic consultants move to an open space office
16:00	Heli Koskinen	Musicians at work
16:20	Marko Antila, Jari Kataja, Heikki Isomoisio and Hannu Nykänen	Recording, evaluation and artificial real-time creation of metal workshop noise
16:40	Joonas Jaatinen, Tarja Lahti and Henrik Möller	The Biofore house – The acoustician's aspect for a modern office building.
17:00	Ellen Raben Pedersen and Peter Møller Juhl	Critical differences for speech reception thresholds,
17:20	Exhibition	Exhibition
19:00	Dinner	Dinner
	<b>House of Blackheads</b>	<b>House of Blackheads</b>
	<b>General Acoustics II, Chair: Marko Ründva</b>	
	Søren Krarup Olesen, Milos Markovic and Dorte Hammershøi	Fast rendering of scanned room geometries
	Juha Plunt	Using Statistical Energy Analysis (SEA) for evaluation of noise and vibration properties of lightweight vehicle concepts
	coffee	coffee
	Peter Juhl	A sound source representing both a monopole and a dipole
	Juho Rinne, Jyrki Pölkki, Henna Tahvanainen and Vesa Välimäki	Mechanical Distorters in Musical Stringed Instruments
	Jussi Rämö, Miquel Marti Rabadan and Vesa Välimäki	Evaluation and simulation of headphone characteristics through acoustic measurements
	Babak Khodabandeloo, Claes Hedberg and Ansel Berghuvud	Resonance Frequency Measurements of a few materials for temperature variations
	Mikko Kylliäinen, Panu Majjala, Lihong Yuan and Veli-Matti Järvenpää	Education of acoustics at Tampere University of Technology
	Exhibition	Exhibition
	Dinner	Dinner
	<b>House of Blackheads</b>	<b>House of Blackheads</b>

Wednesday 4.6.2014

Auditorium Maximum A002

Room A046

9:30 **Trevor Cox (Keynote) Popularising acoustics**

10:30 coffee

**Building acoustic descriptors, regulations and classification schemes – experience from the Baltic-Nordic countries, Chair: Birgit Rasmussen**

coffee

**Combustion engine gas exchange acoustics, Chair: Esa Nousiainen**

11:00 Sigurd Hveem *The consequence of including the low-frequency range down to 50 Hz when calculating the indoor noise level from the sound reduction index of the exposed parts.*

Kari Saine, Esa Nousiainen and Zengxin Gao *Two Decades Noise Research in Wärtsilä*

11:20 Sigmund Olafsen *The contribution of low (50 – 80 Hz) and high (4000 – 5000 Hz) frequencies on indoor noise from road traffic*

Hans Bodén *Acoustic Source Characterization for IC-Engine Exhaust and Intake Systems*

11:40 Trond Blesvik and Sigmund Olafsen *Sound Insulation in Lightweight Modular Housing*

Antti Hynninen and Mats Åbom *On acoustic in-duct characterization of medium speed IC-engine exhaust system*

12:00 Mai-Britt Beldam *Room acoustic descriptors in classrooms - is reverberation time all we need?*

Raimo Kabral and Mats Åbom *Ongoing acoustics research in the KTH - Competence Centre for Gas Exchange*

12:20 Lunch

Lunch

12:40 Lunch

Lunch

13:00 Lunch

Lunch

13:20 Sigmund Olafsen *Transfer functions of vibrations from metro trains to houses*

Antti Hynninen, Heikki Isomoisio, Esa Nousiainen and Mats Åbom *On acoustic performance of the particle oxidation catalyst POC*

13:40 Birgit Rasmussen and Erik Thysell *Sound insulation between dwellings in multi-storey housing in Greenland: Need and feasibility of increased requirements?*

Sami Oksanen and Jan Holmberg *Towards More Optimized Exhaust Silencer Realizations on-board Ships – Status Update on the Compact Silencer System (CSS)*

14:00 Marko Ründva *Analyze of various sound insulation descriptors based on in situ measurements in dwellings*

Jukka Tanttari, Antti Lehtinen and Esa Nousiainen *Exhaust duct flow noise simulation – a case study*

14:20 Closing

Closing

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