

16. MIĘDZYNARODOWA KONFERENCJA ZWALCZANIA HAŁASU
16th INTERNATIONAL CONFERENCE ON NOISE CONTROL

noise control '13

26-29 maja 2013 r. • 26-29 May 2013, Ryn

Program • Programme

Niedziela, 26 maja 2013 • Sunday, 26 May 2013

12.00 – 18.00 Rejestracja uczestników • Registration of participants

17.30 – 18.30 Zwiedzanie Zamku z przewodnikiem • Guided visit to the Castle

19.00 – 20.00 Uroczyste otwarcie Konferencji • Opening ceremony

Koncert kwartetu smyczkowego • A concert of a string quartet

Adresy powitalne • Welcome addresses

– Pani Iwona Hickiewicz – Główny Inspektor Pracy • Chief Labour Inspector

– Pan Zdzisław Zdanowski – Dyrektora Wydziału Środowiska Urzędu Miasta Olsztyna • Director of the Department of Environment of the City of Olsztyn

– Pan Prof. Zbigniew Engel – Przewodniczący Komitetu Naukowego Konferencji • Chair of the Scientific Committee

20.00 – 23.30 Kolacja przy ognisku • Dinner by a bonfire

Poniedziałek, 27 maja 2013 • Monday, 27 May 2013

7.00 – 8.30 Śniadanie • Breakfast

8.30 – 11.00 Referaty plenarne • Plenary papers

Sala A • Room A

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| <p>8.30 Zbigniew Engel
<i>Aktualne przepisy a zwalczanie hałasu w Polsce</i></p> <p>9.00 Adam Lipowczan
<i>Economic aspects of using acoustic maps</i></p> <p>9.30 Eleonora Carletti
<i>A perception-based method for the noise control of construction machines</i></p> <p>10.00 Marek Pawełczyk
<i>Active noise control – problems, solutions, applications</i></p> <p>10.30 Dariusz Pleban
<i>Definition and measure of the sound quality of the machine</i></p> | |
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11.00 – 11.30 Przerwa na kawę • Coffee break

Sala A • Room A	Sala B • Room B
<u>Noise at Working Place – Hałas w środowisku pracy</u>	<u>Classroom Acoustics and Building Acoustics – Akustyka pomieszczeń szkolnych i akustyka budowlana</u>
<p>11.30 Małgorzata Zamojska, Małgorzata Pawlaczyk-Łuszczynska, Adam Dudarewicz, Kamil Zaborowski <i>Assessment of exposure to excessive sounds and hearing status in students enrolled in academic music education</i></p>	<p>11.30 Mariana Cristina Stan, Luminita Anghel <i>Diminution of the reverberation time in a multi-purpose hall</i></p>
<p>11.50 Adam Dudarewicz, Małgorzata Pawlaczyk-Łuszczynska, Małgorzata Zamojska, Kamil Zaborowski <i>Does exposure to sounds during individual rehearsals increase the risk of the hearing loss in the orchestral musicians?</i></p>	<p>11.50 Witold Mikulski, Izabela Jakubowska <i>Influence of classrooms' acoustic treatment on background noise level and teachers' voice intensity</i></p>
<p>12.10 Rafał Młyński, Emil Kozłowski, Jan Adamczyk <i>Assessment of impulse noise hazard and the use of hearing protector devices in workplaces where forging hammers are used</i></p>	<p>12.10 Jan Radosz <i>The calculation model for predicting unknown values of partial indices in the index method for acoustic evaluation of classrooms</i></p>
<p>12.30 Krzysztof Błasiak, Bartosz Chmielewski, Filip Barański <i>Evaluation of influence of work analysis data on determination of occupational noise exposure in accordance with standard PN-EN ISO 9612:2011 for mechanic – welder workstation</i></p>	<p>12.30 Emil Kozłowski, Rafał Młyński <i>Effects of acoustical adaptation on music teachers sound exposure</i></p>
<p>12.50 Adam Dudarewicz, Małgorzata Zamojska, Małgorzata Pawlaczyk-Łuszczynska, Ewa Zamysłowska-Szmytke, Mariola Śliwińska-Kowalska <i>A software for hearing conservation program</i></p>	<p>12.50 Elżbieta Nowicka <i>Acoustical quality assessment of sports facilities</i></p>
	<p>13.10 Marianna Mirowska <i>Proposal of revision of standard relating to permitted noise level in rooms</i></p>

<p>Sala A • Room A <u>Active Noise Reduction – Aktywne metody redukcji hałasu</u></p> <p>14.30 Sebastian Kurczyk, Marek Pawełczyk <i>Active noise control using a fuzzy inference system without secondary path modeling</i></p> <p>14.50 Stanisław Wrona, Marek Pawełczyk <i>Controllability-oriented placement of actuators for active noise-vibration control of flexible structures using memetic algorithms</i></p> <p>15.10 Krzysztof Mazur, Marek Pawełczyk <i>Active noise control with a single nonlinear control filter for a vibrating plate with multiple actuators</i></p> <p>15.30 Tomasz Krukowicz <i>Narrowband variable frequency active noise control using fixed-parameter neural network</i></p> <p>Sala A • Room A <u>Wind Turbine Noise – Hałas turbin wiatrowych</u></p> <p>15.50 Maciej Kłaczyński, Tadeusz Wszolek <i>Acoustic study repower MM92 wind turbines during exploitation</i></p> <p>16.10 Cezary Kasprzak <i>Influence of infrasound noise of wind turbines on EEG signal</i></p> <p>16.30 Małgorzata Pawlaczyk-Łuszczynska, Kamil Zaborowski, Adam Dudarewicz, Małgorzata Zamojska <i>Assessment of annoyance due to wind turbine noise</i></p>	<p>Sala B • Room B <u>Environmental Noise (1) – Hałas środowiskowy (1)</u></p> <p>14.30 Janusz Kompała, Katarzyna Kozerska, Henryk Passia <i>New look at management of noise in natural environment</i></p> <p>14.50 Józef Kotus, Maciej Szczodrak, Andrzej Czyżewski, Bożena Kostek <i>Creating dynamic maps of noise threat using PL-Grid infrastructure</i></p> <p>15.10 Andrzej Kozakiewicz, Maria Franz <i>Impact of increase of the limit values of noise indicators for road- and rail-noise on the acoustic maps in Poland</i></p> <p>15.30 Radosław Kucharski, Patrycja Chacińska <i>Land-use planning methods in environmental acoustics. Towards to “quiet zones”</i></p> <p>15.50 Krzysztof Rudno-Rudziński <i>Analysis of the impact of flight operations parameters on the conclusive noise level</i></p> <p>16.10 Barbara Rudno-Rudzińska <i>Aircraft noise evaluation criteria for determining airborne sound insulation of external walls of buildings</i></p> <p>16.30 Tadeusz Wszolek, Marcin Koter <i>Parameterization and assessment of curve and brake squeal from train approaching to the station</i></p>
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17.20 – 19.20 Referaty sekcyjne • Session papers

<p>Sala A • Room A <u>Infrasonic Noise and Ultrasonic Noise – Hałas infradźwiękowy i hałas ultradźwiękowy</u></p> <p>17.20 Krystyna Pawlas, Marta Boron, Natalia Pawlas, Piotr Szłapa, Jolanta Zachara, Agnieszka Kozłowska <i>Comparative study of the effects of occupational exposure to infrasound and low frequency noise with those of audible noise</i></p> <p>17.40 Małgorzata Pawlaczyk-Łuszczynska, Kamil Zaborowski, Małgorzata Zamojska, Adam Dudarewicz <i>Evaluation of efficiency of personal hearing protective devices in case of exposure to ultrasonic noise</i></p> <p>18.00 Jolanta Matusiak, Piotr Szłapa, Joanna Wyciślik <i>Measurements of ultrasonic and audible noise during ultrasonic welding of metals</i></p> <p>18.20 Bożena Smagowska <i>Objective and subjective study of exposure in the frequency noise from 10 kHz to 40 kHz at metalworking workplaces</i></p> <p>Sala A • Room A <u>Acoustic Measurements and Instrumentation (1) – Pomiary i aparatura (1)</u></p> <p>18.40 Danuta Dobrowolska <i>The apparatus intended for measurement of ultrasonic noise and the capabilities of its traceable calibration</i></p> <p>19.00 Danuta Dobrowolska, Jan Radosz <i>The influence of apparatus parameters on the uncertainty of ultrasonic noise measurement</i></p>	<p>Sala B • Room B <u>Vibration – Drgania mechaniczne</u></p> <p>17.20 Marek L. Szary, Peter L. Weber <i>The study of behaviour of vibrating system controllable by devices with rheological fluid</i></p> <p>17.40 Wiesław Fiebig <i>Two stage vibration isolation on example of a vibratory conveyor</i></p> <p>18.00 Piotr Kowalski, Grzegorz Makarewicz <i>A preamplifier dedicated to vibration transducer made of PVDF film</i></p> <p>18.20 Piotr Kowalski, Jacek Zajac <i>Simultaneous exposure to hand-arm and whole-body vibration at one-track vehicles drivers workstations</i></p> <p>18.40 Filip Barański, Jan Scholten <i>The vibroacoustic optimization process of the off-road machines</i></p> <p>19.00 Hristoph Hoch <i>GERB – vibration isolation of machines and devices</i></p>
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19.30 – 20.30 Przerwa i wybór barwnych strojów z epoki (zapewnionych przez hotel) na uroczystą kolację • Break and a selection of colourful period attire (provided by the Hotel) for a gala dinner

21.00 23.30 Uroczysta kolacja i pokaz walk rycerskich • Gala dinner (in a period attire) and knights' tournament show

Wtorek, 28 maja 2013 • Tuesday, 28 May 2013

7.00 – 8.00 Śniadanie • Breakfast

8.00 – 12.15 Wycieczka: Ryn – Święta Lipka – Gierłoż • Trip: Ryn – Święta Lipka – Gierłoż

12.15 – 13.15 Obiad • Lunch

13.15 – 15.30 Wycieczka: rejs statkiem szlakiem Wielkich Jezior Mazurskich • Trip: Boat trip across the Great Masurian Lakes

16.00 – 18.00 Referaty plenarne • Plenary papers

Sala A • Room A	
16.00	Wojciech Batko <i>Problemy metodologiczne estymacji niepewności w badaniach akustycznych – wyzwania badawcze</i>
16.30	Martin Liedtke, Jörg Rissler, Uwe Kaulbars <i>Latest developments in international standardization of whole-body and hand-arm vibration</i>
17.00	Jerzy Wiciak <i>The soundscape design. Factors impacting the spatial orientation of blind and visually impaired people</i>
17.30	Stanislav Žiaran <i>Low frequency noise and its evaluation</i>

18.00 – 18.30 Przerwa na kawę • Coffee break

Sala A • Room A	Sala B • Room B
<u>Acoustic Measurements and Instrumentation (2) – Pomiary i aparatura (2)</u>	<u>Noise reduction – Ograniczenie hałasu</u>
<p>18.30 Wojciech Batko, Bartłomiej Stępień <i>Type A standard uncertainty of long-term noise indicators</i></p>	<p>18.30 Jacques Chatillon, Marian Szyszko <i>The “nomad” project – a survey of instructions supplied with machinery with respect to noise</i></p>
<p>18.50 Wojciech Batko, Paweł Pawlik <i>Improvements of the uncertainty determination of the noise sources identification process</i></p>	<p>18.50 Jan Adamczyk <i>Selected issues of vibroacoustic protections in rail transport</i></p>
<p>19.10 Wojciech Batko, Renata Bal <i>Verification of the calculation assumptions applied to solutions of the acoustic measurements uncertainty</i></p>	<p>19.10 Krzysztof Kosała, Wiktor M. Zawieska <i>Propositions of noise protections in open-pit mines of mineral raw materials</i></p>
<p>19.30 Grażyna Wszolek <i>Uncertainty in the acoustic measurements taken by audio analyzers</i></p>	<p>19.30 Zbigniew Dąbrowski, Jacek Dziurdź, Radosław Pakowski <i>Selection of sound insulating elements in hydraulic excavators – on the basis of the identification of vibroacoustic energy propagation paths</i></p>
<p>19.50 Witold Mikulski <i>Influence of electrical and magnetic field at 50 Hz on values indicated by noise measure instruments</i></p>	<p>19.50 Paweł Górski <i>Model of interactive system for training in the proper use of hearing protection devices</i></p>
<p>20.10 Janusz Piechowicz <i>Room sound field analysis using integrated multichannel measurement system</i></p>	<p>20.10 Leszek Morzyński <i>Internet service BEZPIECZNIEJ dedicated to noise, vibration and other physical agents of working environment</i></p>
<p>20.30 Witold Mikulski, Dariusz Pleban <i>Methods of testing of sound absorption coefficient of materials in frequency range above 5.000 Hz</i></p>	<p>20.30 Tomasz Krukowicz <i>The use of OMAP processor for active noise control</i></p>

Środa, 29 maja 2013 • Wednesday, 29 May 2013

7.00 – 8.00 Śniadanie • **Breakfast**

8.30 – 10.00 Referaty plenarne • **Plenary papers**

Sala A • Room A

8.30 Stefan Weyna, Witold Mickiewicz, Michał Pyła, Michał Jabłoński
Experimental acoustic flow analysis inside a section of an acoustic waveguide

9.00 Antoni Śliwiński
Assessment of ultrasonic noise hazard in work places environment

9.30 Andrzej Dobrucki, Maurycy Kin, Bartłomiej Kruk
The influence of headphones for listening to the music on hearing loss of young people

10.00 – 10.30 Przerwa na kawę • **Coffee break**

10.30 – 11.30 Referaty sekcyjne • **Session papers**

Sala A • Room A

Effect of Noise on Human – Wpływ hałasu na człowieka

10.30 Małgorzata Pawlaczyk-Łuszczynska, Małgorzata Zamojska, Adam Dudarewicz, Kamil Zaborowski
Noise-induced hearing loss in professional orchestral musicians

10.50 Adam Dudarewicz, Małgorzata Pawlaczyk-Łuszczynska, Małgorzata Zamojska, Kamil Zaborowski
Exposure to Excessive sounds During Orchestra Rehearsals and Temporary Hearing Changes in hearing among Musicians

11.10 Bartłomiej Kruk, Maurycy Kin, Magdalena Kamińska
Temporary threshold shift and hearing loss for recording engineers

Sala B • Room B

Environmental Noise (2) – Hałas środowiskowy (2)

10.30 Sebastian Bernat
The soundscape of national parks in Poland

10.50 Dawid Byrdy, Wiesław Polak
Wykorzystanie danych GIS w modelach akustycznych – przetwarzanie pozyskanych bądź wytworzonych danych celem dostosowania ich do lokalnych wymagań stawianych wykonawcom projektów akustycznych przez instytucje państwowe

11.10 Vikrant Tyagi, Krishan Kumar, V.K. Jain
Road traffic noise attenuation by vegetation belts at some sites in the TARAI region of India

11.30 – 12.00 Uroczyste zamknięcie Konferencji • **Closing ceremony**

12.30 Obiad • **Lunch**