

15 MIĘDZYNARODOWA KONFERENCJA ZWALCZANIA HAŁASU
15TH INTERNATIONAL CONFERENCE ON NOISE CONTROL
6-9 czerwca 2010 r. • 6-9 JUNE 2010, Książ
Program • Programme

Niedziela, 6 czerwca 2010 • Sunday, 6 June 2010

12.00 – 18.00 Rejestracja uczestników • Registration of participants

19.00 – 20.00 Uroczyste otwarcie Konferencji • Opening Ceremony

- Adresy powitalne • Welcome addresses

- Pani Poseł Izabela Mrzygłocka – Przewodnicząca Rady Ochrony Pracy przy Sejmie RP
• Chair of the Labour Protection Council at the Sejm of the Republic of Poland
- Pan Piotr Kruczkowski – Prezydent Wałbrzycha • President of Wałbrzych.
- Pani Profesor Danuta Koradecka - Dyrektor CIOP-PIB • Director of CIOP-PIB
- Pan Marian Liwo - Z-ca Głównego Inspektora Pracy • Deputy Chief Labour Inspector
- Pan Prof. Zbigniew Engel – Przewodniczący Komitetu Akustyki Polskiej Akademii Nauk
• Chair of the Committee on Acoustics of the Polish Academy of Sciences

- Koncert muzyki kameralnej - Kwintet Filharmonii Sudeckiej • A concert of chamber music by the Filharmonia Sudecka quintet

20.00 – 24.00 Kolacja przy ognisku • Dinner by a bonfire

Poniedziałek, 7 czerwca 2010 • Monday, 7 June 2010

7.00 – 8.30 Śniadanie • Breakfast

8.30 – 11.00 Referaty plenarne • Plenary papers

Sala A • Room A

Przewodniczący • Chairs

Danuta Koradecka, Antoni Śliwiński, Andrzej Rakowski

8.30 Danuta Koradecka

60 years of CIOP-PIB the working and living environment, quo vadis?

9.00 Zbigniew W. Engel

From the history of the Noise Control Conference

9.30 Marian Liwo

Safety of workers exposed to noise – the evaluation of National Labour Inspectorate

10.00 Wiktor Marek Zawieska, Dariusz Pleban

Controlling noise and vibration in the 60 years of the Central Institute For Labour Protection – National Research Institute (CIOP-PIB)

10.30 Zbigniew Dąbrowski

Deliberations on a vibroacoustic axiom

11.00 – 11.30 Przerwa na kawę • Coffee break

11.30 – 13.30 Referaty sekcyjne • Session papers

Sala A • Room A Hałas środowiskowy (1) • Environmental noise (1)

Przewodniczący • Chairs

Bożena Kostek, Diana Popescu

11.30 Małgorzata Szwarc, Bożena Kostek

Railway noise problems in Poland

11.50 Janusz Kompała

The system for management of urbanized areas in the aspect of acoustic effects

12.10 Tadeusz Wszolek

Diagnostic symptoms of corona audible noise in continuous monitoring systems

12.30 Wiesław Wszolek

Aviation noise

12.50 Jan Żera, Rafał Młyński, Emil Kozłowski

Sound levels produced by hunting and sport ammunition

13.10 Tadeusz Wszolek, Maciej Kłaczyński, Wiesław Wszolek

Recognition of selected noise sources in a long-term environmental monitoring

Sala B • Room B Metody aktywne (1) • Active noise control (1)

Przewodniczący • Chairs

Wiktor Marek Zawieska, Janusz Piechowicz

- 11.30 Mariusz Latos, Marek Pawełczyk**
Earplug actuator selection for a miniature personal active hearing protection system
- 11.50 Mariusz Latos, Marek Pawełczyk**
Adaptive algorithms for enhancement of speech subject to a high-level noise
- 12.10 Michał Wilk, Marek Pawełczyk**
A comparison of adaptive feedforward systems controlling acoustic energy density estimate and acoustic pressure
- 12.30 Michał Wilk, Marek Pawełczyk**
Tracking properties of an adaptive feed forward system with the Filtered-Reference LMS algorithm controlling acoustic energy density estimate
- 12.50 Krzysztof Mazur, Marek Pawełczyk**
Adaptive active noise control of sound transmitted through a plate with insufficient acoustic isolation
- 13.10 Krzysztof Mazur, Marek Pawełczyk**
Active structural acoustic control using the Filtered-Reference LMS algorithm with compensation of vibrating plate temperature variation

13.30 – 14.30 Obiad • Lunch

14.30 – 16.10 Referaty sekcyjne • Session papers

Sala A • Room A Hałas w szkołach • Noise in schools

Przewodniczący • Chairs

Danuta Augustyńska, Jean Jacques

- 14.30 Jolanta Turek**
More quietly and safely "Quiet and careful" as the educational activities under the action Protection of Health against Noise. Program is addressed to the school community
- 14.50 Barbara Rudno-Rudzińska, Karolina Czajkowska**
Analysis of acoustic environment on premises of nursery schools in Wrocław
- 15.10 Józef Kotus, Maciej Szczodrak, Andrzej Czyżewski, Bożena Kostek**
Long-term comparative evaluation of acoustic climate in selected schools before and after acoustic treatment
- 15.30 Danuta Augustyńska, Anna Kaczmarska, Witold Mikulski, Jan Radosz**
Assessment of teachers' exposure to noise in primary schools
- 15.50 Witold Mikulski, Jan Radosz**
The influence of volume and use of classrooms in elementary schools on the acoustic properties

Sala B • Room B Wpływ hałasu na człowieka (1) • [The effect of noise on human \(1\)](#)

Przewodniczący • Chairs

Martin Liedtke, Jan Żera

- 14.30 Antoni Śliwiński**
Physical aspects related to the assessment of ultrasonic noise impact on human body
- 14.50 Emil Kozłowski, Jan Żera, Rafał Młyński**
Effect of musician's earplugs on sound level and spectrum during musical performances
- 15.10 Małgorzata Pawlaczyk-Łuszczynska, Adam Dudarewicz, Małgorzata Zamojska, Mariola Śliwińska-Kowalska**
Evaluation of sound exposure and risk of hearing impairment in orchestral musicians
- 15.30 Małgorzata Pawlaczyk-Łuszczynska, Adam Dudarewicz, Małgorzata Zamojska, Mariola Śliwińska-Kowalska**
Hearing ability in orchestral musicians
- 15.50 Adam Dudarewicz, Esko Toppila, Małgorzata Pawlaczyk-Łuszczynska, Mariola Śliwińska-Kowalska**
The Influence of Selected Risk Factors on the Hearing Threshold Level of Noise Exposed Employees

16.10 – 16.40 Przerwa na kawę • [Coffee break](#)

16.40 – 19.40 Referaty sekcyjne • [Session papers](#)

Sala A • Room A Hałas maszyn i urządzeń • [Machinery Noise](#)

Przewodniczący • Chairs

Zbigniew Dąbrowski, Eleonora Carletti

- 16.40 Dariusz Pleban**
Method of acoustic assessment of machinery based on global acoustic quality index
- 17.00 Leszek Morzyński**
The use of genetic algorithms for limitation of occupational exposure to noise – simulation research
- 17.20 Lucian Ionel Cioca, Roland Iosif Moraru, Silviu Nicolae Platon**
Assessment and reduction of noise levels on Romanian oil drilling and production platforms operating in the Black Sea
- 17.40 Witold Mikulski, Jan Radosz**
Determining the level of sound power of noise sources using the traversing method for measuring the level of sound pressure
- 18.00 Małgorzata Jędrzejewska**
Activities of the Central Institute for Labour Protection – National Research Institute in the scope of the conformity assessment of PPE and machinery (directives 89/686/EEC, 2006/42/EC and 2000/14/EC)

18.20 Mirosława Świdarska
Standardisation activity of Polish Technical Committee No. 157 for Physical Hazards in the Working Environment

Sala A • Room A Metody aktywne (2) • **Active noise control (2)**

Przewodniczący • Chairs

Marek Pawełczyk, Witold Mikulski

18.40 Tomasz Krukowicz
Active noise control algorithm based on a neural network and nonlinear input - output system identification model

19.00 Paweł Górski, Michał Kozupa
Noise Reduction Using an Active Structure of Variable Sound Insulation

19.20 Maciej Walczyński, Wojciech Bożejko
Noise reduction using parallel algorithms

Sala B • Room B Wpływ hałasu na człowieka (2) • **The effect of noise on human (2)**

Przewodniczący • Chairs

Małgorzata Pawlaczyk-Łuszczynska, Leszek Morzyński

16.40 Marianna Mirowska
Influence of long-term effect of low level noise from building equipment on health of dwellers

17.00 Bożena Smagowska
Noise at workplaces in the call center

17.20 Danuta Dobrowolska
Calibration of audiometers - formal requirement or reasonable necessity

Sala B • Room B Ograniczenie hałasu • **Noise reduction**

Przewodniczący • Chairs

Zbigniew Engel, Dariusz Pleban

17.40 Andrzej Dobrucki, Bronisław Żółtogórski, Piotr Pruchnicki, Romuald Bolejko
Sound-absorbing and insulating enclosures for ultrasonic range

18.00 Janusz Piechowicz
Surface acoustic impedance estimation using inverse method

18.20 Wiesław Fiebig
The reduction of vibrations of pedestrian bridges with using of tuned mass dampers (TMD)

18.40 Adrian Leszczyński, Rafał Iwaszczyszyn
EP-coustic® as an example of a multilayered structure.

20.00 Kolacja • Dinner

Wtorek, 8 czerwca 2010 • Tuesday, 8 June 2010

7.00 – 8.00 Śniadanie • **Breakfast**

8.00 – 14.00 Wizyta we Wrocławiu • A sightseeing tour of Wrocław

14.00 – 15.00 Obiad • **Lunch**

15.00 – 17.00 Powrót do Książa • Return to Książ

17.00 – 19.00 Referaty plenarne • **Plenary papers**

Sala A • Room A

*Przewodniczący • **Chairs***

Marek Szary, Wojciech Batko

17.00 Eleonora Carletti, Francesca Pedrielli, Camilla Casazza

Development and validation of a numerical prediction model to estimate the annoyance condition at the operation station of compact loaders

17.30 Martin Liedtke

Noise Dose Index based on hearing deterioration equivalencies adapted from ISO 1999

18.00 Adam Lipowczan

Action plans to limit the impact of noise in large agglomerations – conditions and problems

18.30 Jean Jacques

The EUROSHNET network

20.00 Uroczysta kolacja na Zamku Książ • **Banquet in the Książ Castle**

Środa, 9 czerwca 2010 • Wednesday, 9 June 2010

7.00 – 9.00 Śniadanie • Breakfast

9.00 – 10.30 Referaty plenarne • Plenary papers

Sala A • Room A

Przewodniczący • Chairs

Adam Lipowczan, Andrzej Dobrucki

9.00 Diana Iona Popescu, Iuliana Fabiola Moholea
Monitoring the reaction and response of people to urban noise

9.30 Stefan Weyna
Acoustic intensity imaging methods for in-situ wave propagation

10.00 Wojciech Batko
Numerical uncertainty in processes of acoustical monitoring

10.30 – 11.00 Przerwa na kawę • Coffee break

11.00 – 13.40 Referaty sekcyjne • Session papers

Sala A • Room A Hałas środowiskowy (2) • Environmental noise (2)

Przewodniczący • Chairs

Stefan Weyna, Janusz Kompała

11.00 Wojciech Batko, Bartłomiej Borkowski, Krzysztof Głocki
New ideas of solutions in building of monitoring systems for noise hazards in environment – construction examples

11.20 Wojciech Batko, Paweł Pawlik
New Approach to Uncertainty Assessment of Acoustic Effects in the Environment

11.40 Grażyna Wszolek, Wojciech Batko
Uncertainty evaluation for environmental sound level measurements - effects of all-weather microphone properties

12.00 Aneta Augustyn
Methodology of identification of characteristics of significant sources of noise emission from areas of mining and power plants

12.20 Jacek Wierzbicki
3D Sound Measurements in Open Space

12.40 Robert Barański
Low cost sound level meter based on LabView

Sala B • Room B Akustyka budowlana • **Building Acoustics**

Przewodniczący • Chairs

Barbara Rudno-Rudzińska, Marianna Mirowska

- 11.00** **Marek L. Szary, Yoginder P. Chugh, Joseph Hirschi**
The Noise Variability in Underground Room and Pillar Coal Mine
- 11.20** **Marek Pierchała**
Methodology of testing of acoustic field distribution in power plants of complex structure
- 11.40** **António P. O. Carvalho, Pedro M. A. Silva**
Sound, noise and speech at the 9000-seat holy trinity church in Fatima, Portugal
- 12.00** **Dominik Mleczko**
Assessment of measurements and simulation results in sound field in rooms with changes in location of sound source and the receiver

Sala B • Room B Drgania Mechaniczne • **Vibration**

Przewodniczący • Chairs

Wiesław Fiebig, Tadeusz Wszolek

- 12.20** **Giuseppe Miccoli**
Human Vibration measurement and evaluation: an updating
- 12.40** **Piotr Kowalski**
Examining the effectiveness of anti-vibration gloves with a neural network
- 13.00** **Piotr Kowalski, Jacek Zając**
Whole-body and hand-arm vibration in in-house transport
- 13.20** **Igor Dudnyk, Olena A. Kossenkowa-Dudnyk**
Vibration in coal mines: harmful sources, influence on human organism and prophylaxis of vibration disease among miners
- 13.40 – 14.10 Uroczyste zamknięcie Konferencji • **Closing ceremony**
- 14.30 **Obiad • Lunch**