



**LXIX
OTWARTE
SEMINARIUM
Z AKUSTYKI**

69th Open Seminar of Acoustics OSA2023

**5th Polish-German Structured Conference
on Acoustics PGSCA 2023**

Karpacz, 25-29 September 2023

PROGRAM SZCZEGÓŁÓWY ▪ DETAILED PROGRAMME

WSPÓŁORGANIZATORZY ▪ CO-ORGANIZERS



Politechnika
Wroclawska



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- Wrocław Branch Polish Acoustical Society
- Department of Acoustics, Multimedia and Signal Processing, Wrocław University of Science and Technology
- Committee on Acoustics, Polish Academy of Sciences
- Svantek
- KFB Acoustics
- Instytut Techniki Budowlanej
- Acoustics Research Laboratory

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prof. dr hab. Anna Preis
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dr hab. inż. Wiesław Wszolek, prof. AGH
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Michael Vorländer, RWTH Aachen, Germany

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Jędrzej Kociński. Adam Mickiewicz University In Poznań, Poland
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Jacek Marszał, Gdańsk University of Technology, Poland
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Anna Preis, Adam Mickiewicz University in Poznań, Poland
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Piotr Staroniewicz, Wrocław University of Science and Technology, Poland
Anna Warzybok, Oldenburg University, Germany
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Karol Sałagan, Svantek

Monday, 25.09.2023					
		Room 100	Plenary Room	Room 70	Room 50
08:00					
08:20					
08:40					
09:00					
09:20					
09:40					
10:00		PTA Delegates assembly			
10:20					
10:40					
11:00					
11:20					
11:40					
12:00					
12:20					
12:40					
13:00					Tutorial SPS dr Mark E. Davis
13:20					
13:40	R e c e p t i o n d e s k				
14:00		Lunch PTA DA	IEEE Ceremonial lunch	Lunch SPS	
14:20					
14:40					
15:00		PTA Delegates assembly		Tutorial SPS prof. Gaspere Galati (online)	
15:20					
15:40					
16:00					
16:20					
16:40					coffee break
17:00				20th Anniversary of the IEEE Signal Processing Society Poland Chapter	Tutorial SPS dr. Diego Cristallini
17:20					
17:40					
18:00					
18:20					
18:40					
19:00		Welcome reception			
20:00					
21:00					

Tuesday, 26.09.2023					
	Room 100	Plenary Room	Room 70	Room 50	
08:00	Breakfast (only for Sandra SPA guests)				
08:20					
08:40					
09:00	OSA + POLGER+SPS Opening				
09:20	IEEE SPS and AESS Presidents				
09:40	OSA+SPS Plenary 1				
10:00	prof. Olivier Adam				
10:20	OSA opening			Group photo	
10:40	prof. W. Batko (in Polish)			coffee break	
11:00	OSA	POLGER		SPS	SPS
11:20	Environmen	Building		RADAR 1	Medical
11:40	tal acoustics	acoustics		Keynote	
	10 28 36	13 17 94		F. Yanovsky	
12:00	coffee break				
12:20	OSA	POLGER		Lunch	
12:40	Environmen	Building			
13:00	tal acoustics	acoustics			
	50 64 116	35 106 107		SPS	
13:20	Poster session				
13:40	45 126			SPS Plenary 1	
	2 26 87 14 59 31 115 132 41			prof. Athena Petropulu	
14:00	Lunch			Industrial session	
14:20	OSA				
14:40					
15:00	OSA Plenary			coffee break	
15:20	prof. Marzena Dzida				
15:40	Industrial session				
16:00	Barrisol Commercial Audio			SPS	SPS
16:20	coffee break			PASSIVE	AI
16:40	OSA	POLGER			
17:00	Bio & Speech	Electro			
17:20	acoustics	acoustics			
	30 88 7	22 38 39			
17:40	OSA+SPS Plenary 2				
18:00	prof. Artur Lorens				
18:20					
18:40					
19:00	Gala dinner (up to 24.00)				
20:00					
21:00					

Wednesday, 27.09.2023					
	Room 100	Plenary Room	Room 70	Room 50	Room 30
08:00	Breakfast (only for Sandra SPA guests)				
08:20					
08:40					
09:00	OSA Plenary prof. André Fiebig		SPS Signal Processing 1	SPS Comm&Loc	
09:20					
09:40	OSA Commemorative session prof. Grażyna Grelowska		Keynote S. Basu		
10:00					
10:20	coffee break				OSA Marek Kwiek Competition 33 25 47 78
10:40	OSA Physical acoustics 79 71 114	POLGER Hydro acoustics 58 73 63			
11:00	OSA Speech & Building acoustics 86 117 65 15	POLGER Hydro acoustics 54 51 27 67	SPS Signal Processing 2	SPS SAR/ISAR	
11:20					
11:40	coffee break		Keynote P. Dewilde		OSA Marek Kwiek Competition 6 113 3 72
12:00	Poster session PTA 60th Anniversary				
12:20					
12:40	Lunch OSA		SPS Plenary 2 dr. Maciej Łopatka		
13:00					
13:20	OSA Plenary prof. Iwona Kochońska		coffee break		
13:40					
14:00	Industrial session Yamaha Acoustic Enhancement		SPS RADAR 2	SPS Communi cations	
14:20					
14:40	OSA Hydro acoustics 52 103 74		POLGER Electro acoustics 24 32 99		
15:00					
15:20	OSA+SPS Plenary 3 R2Commemorative session prof. Wiesław Barwicz (in Polish)				
15:40					
16:00	Bonfire (up to 24.00)				
16:20					
16:40					
17:00					
17:20					
17:40					
18:00					
18:20					
18:40					
19:00					
20:00					
21:00					

Thursday, 28.09.2023						
	Room 100	Room 70	Plenary Room	Room 50		
08:00	Breakfast (from 7.15) (only for Sandra SPA guests)					R e c e p t i o n d e s k
08:20						
08:40						
09:00	Trips		SPS Implementatio ns and HW			
09:20						
09:40						
10:00						
10:20						
10:40						
11:00			coffee break			
11:20			SPS Plenary 4 dr. Mark E. Davis			
11:40			Conference closing SPSymo			
12:00						
12:20						
12:40			Lunch SPS			
13:00	Lunch OSA					
13:20						
13:40						
14:00			Measurements of the sound level in rooms			
14:20			Warsztaty Pomiary akustyczne w pomieszczeniach			
14:40						
15:00						
15:20			coffee break			
15:40						
16:00	OSA Building acoustics 18 19 20 23	POLGER Ultrasound 46 40 60 61	Workshop Strategic noise maps Warsztaty Strategiczne mapy hałas	OSA Speech & Signal acoust. 48 4 16		
16:20						
16:40						
17:00						
17:20	coffee break					
17:40	OSA Building acoustics 80 109 62	POLGER Env. acoustics 66 77				
18:00						
18:20						
18:40						
19:00	Dinner					
20:00						
21:00						

Friday, 29.09.2023				
	Room 100	Room 70	Plenary Room	Room 50
08:00	Breakfast (only for Sandra SPA guests)			
08:20				
08:40				
09:00	OSA Noise & Vibro acoustics 68 43 111	POLGER Psycho acoustics 83 92 95	Acoustic approvals of residential buildings in Poland Warsztaty Odbiory akustyczne budynków mieszkalnych w Polsce	
09:20	coffee break			
09:40				
10:00	OSA Noise & Vibro acoustics 37 49	POLGER Psycho acoustics 8 81 55		
10:20	coffee break			
10:40				
11:00	OSA Noise & Vibro acoustics 34 53 90	POLGER Speech acoustics 1 5 75		
11:20	coffee break			
11:40				
12:00				
12:20				
12:40				
13:00	Closing ceremony OSA2023			
13:20				
13:40				
14:00	Lunch OSA			
14:20				
14:40				

PONIEDZIAŁEK

25.09.2023

MONDAY

10:00–12:40 PTA Delegates assembly *Room 100*

14:00–15:00 Lunch PTA DA

13:40–18:40 PTA Delegates assembly *Room 100*

19:00–22:00 Welcome reception(starters + glass of wine/beer)

09:00–09:40 OSA+SPS Opening IEEE SPS and AES Presidents, Plenary Room

09:40–10:20 OSA+SPS Plenary 1 prof. Olivier Adam, Plenary Room, Chairman: Piotr Samczyński

10:20–11:00 OSA opening prof. W. Batko 89, Plenary Room, Chairman: Jerzy Wiciak

▪ BATKO, Wojciech Michał

Diagnosis of acoustic hazards of the environment and its identification problems (ID: 89)

11:00–12:00 OSA Environmental acoustics 10 28 36, Room 100, Chairman: Cezary Kasprzak

▪ Bukala, Michał J; Nowoświat, Artur; Chyla, Andrzej

Residual convolutional neural network for continuous identification of aircraft noise (ID: 10)

▪ Wiciak, Jerzy; Młynarczyk, Dorota ; Małecki, Paweł; Piechowicz, Janusz

Questionnaires and Acoustic Measurements in Longyearbyen Area, Svalbard (ID: 28)

▪ Żuchowski, Rafał; Nowoświat, Artur

Assessment of the impact of road traffic noise based on post-realization analysis of a project (ID: 36)

11:00–12:00 POLGER Building acoustics 13 17 94, Plenary Room, Chairman: Elżbieta Nowicka

▪ Neubauer, Reinhard O.

Acoustic classification with the descriptor of the weighted standardized level difference $D_{nT,w}$ and of the weighted apparent sound reduction index R'_{w} . Are the classes the same? (ID: 13)

▪ Vorlaender, Michael

Sound insulation – comparison of standard vs. real world situations (ID: 17)

▪ Nowotny, Łukasz; Nurzyński, Jacek

Estimation of the improvement of the impact sound insulation of a carpet floor covering on a wooden floor based on the results of tests carried out on a massive floor (ID: 94)

12:20–13:20 OSA Environmental acoustics 50 64 116, Room 100, Chairman: Maciej Kłaczyński

▪ Kasprzak, Cezary

The impact of infrasound on the level of activation (ID: 50)

▪ Wszolek, Tadeusz; Kłaczyński, Maciej; Pawlik, Paweł; Stępień, Bartłomiej; Małecki, Paweł; Mleczo, Dominik

Tests of windshields for wind turbines noise measurements (ID: 64)

▪ Staniek, Andrzej C.

Validation of the measurement data for different heights of a microphone position in outdoor environment (ID: 116)

12:20–13:20 POLGER Building acoustics 35 106 107, Plenary Room, Chairman: Reinhard Neubauer

▪ Nowicka, Elżbieta

Assessment of acoustic quality of residential buildings in Poland - case study (ID: 35)

▪ Nocke, Christian

Micro-perforated stretched ceilings for acoustic, lighting and climate design (ID: 106)

▪ Nocke, Christian

New draft DEGA guideline 103-1 in sound protection classes (ID: 107)

13:20–14:00 Poster session 45 126 2 26 87 14 59 31 115 132 41, Chairman: Piotr Kozłowski

▪ Mleczko, Dominik

The influence of diffusing elements arrangement in a reverberation room on the results of airborne sound insulation measurements (ID: 45)

▪ Kopciński, Tomasz; Kin, Maurycy J.

Design and practical realization of an amplifier constructed on the basis of NuVistors used in the preamplifier circuit (ID: 126)

▪ Plaskota, Przemysław

Optimisation of the model for the numerical determination of the HRTF (ID: 2)

▪ Matecki, Paweł; Pawlaczyk-Łuszczynska, Małgorzata; Wszolek, Tadeusz; Drzymala, Bohdan

Infrasound and Well-being: A Study of Wind Turbine Impact (ID: 26)

▪ Młynarczyk, Dorota

Investigating the Restorative Properties of Natural Soundscapes (ID: 87)

▪ Łapka, Wojciech; Jakubowski, Piotr PJ

Experimental aeroacoustic studies of selected three types of helicoidal resonators (ID: 14)

▪ Kosala, Krzysztof

Sound insulation performance of cube-shaped enclosures (ID: 59)

▪ Wójciak, Kamil; Gaj, Patryk; Kopania, Joanna

Noise Testing of Multi-disc Fan (ID: 31)

▪ Świrk, Patrycja; Leniowska, Lucyna

Selected acoustic structures for effective sound absorption at low frequencies (ID: 115)

▪ Radosz, Jan

The effect of ultrasonic noise on a worker's ability to perform their basic tasks (ID: 132)

▪ Bogusławski, Grzegorz; Kopania, Joanna Maria; Gaj, Patryk; Wójciak, Kamil

Comparison of the acoustic parameters of the commercial ceiling swirl diffusers with the prototype model (ID: 41)

15:00–15:40 OSA Plenary prof. Marzena Dzida 42, *Plenary Room*, Chairman: Arkadiusz Józefczak

▪ Dzida, Marzena H.

Molecular structure and thermophysical properties of ionanofluids (ID: 42)

15:40–16:00 Industrial session Barrisol *Plenary Room*, Chairman: Romuald Bolejko

16:00–16:20 Industrial session Commercial Audio *Plenary Room*, Chairman: Romuald Bolejko

16:40–17:40 OSA Bio & Speech acoustics 30 88 7, *Room 100*, Chairman: Krzysztof Opieliński

▪ Kaczmarek, Katarzyna

Contrast-enhanced magneto-motive ultrasound imaging of sentinel lymph nodes (ID: 30)

▪ Węglarz, Karolina; WIESŁAW, WSZOŁEK; Szczygieł, Elżbieta; Hemmerling, Daria

Comparative analysis of selected voice parameters of patients with obstructive pulmonary disease and dysphonia. (ID: 88)

▪ Brachmański, Stefan; Kin, Maurycy J.; Rurzyńska, Natalia

Objective Assessment of the Speech Signal Quality Broadcasted by Local Digital Radio in Selected Locations in Wrocław (ID: 7)

16:40–17:40 POLGER Electroacoustics 22 38 39, *Plenary Room*, Chairman: Andrzej Dobrucki

▪ Reszke, Edward R; Dobrucki, Andrzej B.

Electrodynamic pick-up for electric string instruments (ID: 22)

▪ Lewandowski, Marcin; Augustyniak, Aleksander

First-order ambisonics microphone with MEMS and condenser capsules (ID: 38)

▪ Pietrzak, Agnieszka

Azimuth and elevation errors in binaural reproduction of ambisonic sound (ID: 39)

17:40–18:20 OSA+SPS Plenary 2 prof. Artur Lorens, *Plenary Room*, Chairman: Andrzej Dobrucki

▪ Cochlear Implant – an electronic prosthesis of a sensory organ

09:00–09:40 OSA Plenary prof. André Fiebig, Plenary Room, Chairman: Michael Vorländer

▪ Environmental noise assessment – do we need different indicators to assess noisy and quiet environments?

09:40–10:20 OSA Commemorative session prof. Grażyna Grelowska, Plenary Room, Chairman: Iwona Kocharńska

10:20–11:40 OSA Marek Kwiek Competition 33 25 47 78, Room 30, Chairman: Stefan Brachmański

▪ Chojnacki, Bartłomiej; Chojak, Aleksandra; Pawlik, Jan; Binek, Wojciech; Idczak, Julia
Research in the use of metamaterial sound-absorbing structures in electroacoustics (ID: 33)

▪ Nowak, Tomasz; Dobrucki, Andrzej B.
Simulation of acoustic lens influence on wavefront shaping (ID: 25)

▪ Kuras, Romuald; Hajder, Sebastian
Experimental validation of the asymmetric PZT optimal shape in the active vibration reduction of triangular plates (ID: 47)

▪ Pater, Marcin; Grochowina, Marcin A
Identification of errors in the digital transmission paths of radio stations (ID: 78)

10:40–11:40 OSA Physical acoustics 79 71 114, Room 100, Chairman: Andrzej Dobrucki

▪ Wesołowska, Julia
Wpływ wykorzystania układu rezonatorów w strukturze kryształu sonicznego na jego skuteczność (ID: 79)

▪ Lasota, Henryk
Infinitesimal volume area of physical space-time in acoustics and electromagnetics (ID: 71)

▪ Wrzeczono, Piotr; Szymański, Michał; Bayat, Hidayatullah
Algorithm for detection of wave packets in a circular waveguide (ID: 114)

10:40–11:40 POLGER Hydroacoustics 58 73 63, Plenary Room, Chairman: Iwona Kocharńska

▪ Żak, Andrzej; Studański, Ryszard; Czapiewska, Agnieszka; Wojewódka, Łukasz; Łuksza, Andrzej
Evaluation of hydroacoustic channel stationarity for reciprocal movement of transmitter and receiver (ID: 58)

▪ Schmidt, Jan H.; Kochanska, Iwona; Schmidt, Aleksander M.
Low-Power Underwater Modem for Shallow Water Communications (ID: 73)

▪ Klusek, Zygmunt; Lisimenka, Aliaksandr
The nature of the variability of the underwater noise field on the Słupsk Bank. (ID: 63)

12:00–13:20 OSA Marek Kwiek Competition 6 113 3 72, Room 30, Chairman: Stefan Brachmański

▪ Pondel-Sycz, Karolina Maria

Acoustic model for the classification of Polish vowels (ID: 6)

▪ Gmyrek, Stanislaw; Hossa, Robert; Makowski, Ryszard

Reducing the impact of fundamental frequency on the HFCC parameters of the speech signal (ID: 113)

▪ Łuczyński, Michał

Preliminary Study: Mobile Phone as a Phonocardiographic Signal Recorder (ID: 3)

▪ Gawlik, Mateusz

Comparison of the transitional states of singing voice registers depending on the presence of the singer's formant. (ID: 72)

12:00–13:20 OSA Speech & Building acoustics 86 117 65 15, Room 100, Chairman: Paweł Dziechciński

▪ Wielgus, Agnieszka; Szlachetko, Bogusław; Łuczyński, Michał

Beamforming in nearfield - metaheuristic approach and speech intelligibility tests (ID: 86)

▪ Szklanny, Krzysztof

Cloning the voice and speech of Piotr Fronczewski for Polish speech synthesis. (ID: 117)

▪ Dulak, Leszek; Żuchowski, Rafał

Influence of the laboratory measurement method of the reduction of transmitted impact noise by covering floors on a heavyweight standard floor on the result (ID: 65)

▪ Bolejko, Romuald

Evaluation of the impact of a leak on the sound transmission loss of a building partition using sound intensity measurements (ID: 15)

12:00–13:20 POLGER Hydroacoustics 54 51 27 67, Plenary Room, Chairman: Jan Abshagen

▪ Abshagen, Jan; Haak, Christian

Sound Propagation Experiments in the Western Baltic Sea (ID: 54)

▪ Galka, Andreas

Reconstruction of source components from hydroacoustic time series (ID: 51)

▪ Schmidt, Aleksander M.; Kilian, Lech; Marszał, Jacek

Experimental tests of selected sound-absorbing materials dedicated for a hydroacoustic measuring basin (ID: 27)

▪ Cymerman, Zuzanna; Kochańska, Iwona

The Simulation of the Influence of the Doppler Effect on Wideband Hydroacoustic Signals (ID: 67)

13:20–14:00 Poster session PTA 60th Anniversary, Chairman: Jerzy Wiciak

15:00–15:40 OSA Plenary prof. Iwona Kochańska 69, *Plenary Room*, Chairman: Jacek Marszal

▪ Kochanska, Iwona

Digital data transmission techniques in shallow-water acoustic communications (ID: 69)

15:40–16:20 Industrial session YAMAHA Acoustic Enhancement, *Plenary Room*, Chairman: Piotr Kozłowski

16:40–17:40 OSA Hydroacoustics 52 103 74, *Room 100*, Chairman: Jacek Marszal

▪ Salamon, Roman; Marszal, Jacek; Kochańska, Iwona

A Tool for Designing Water Tanks for Measuring Hydroacoustic Transducers (ID: 52)

▪ Klusek, Zygmunt; Lisimenka, Aliaksandr

Prediction of effects of impact pile driving noise on marine fauna in the PEEZ: A comparison of different scenarios (ID: 103)

▪ Listewnik, Karol Jakub

A Design of an Acoustic Coupler for Calibration of Pressure Sensors at Ultra Low Frequencies (ID: 74)

16:40–17:40 POLGER Electroacoustics 24 32 99, *Plenary Room*, Chairman: Daniel Beer

▪ Melnikov, Anton; Schenk, Hermann A.G.; Wall, Franziska

Analytical modeling of the harmonic distortion caused by squeeze film damping in MEMS-based acoustic transducers (ID: 24)

▪ Czesak, Karol; Kleczkowski, Piotr

Sound power level as a means of effectiveness of Distributed Mode Loudspeakers (ID: 32)

▪ Beer, Daniel; Männchen, Andreas; Lenk, Claudia; Ziegler, Martin; Ivanov, Tzvetan

A new, bio-inspired microphone design (ID: 99)

17:40–18:40 OSA+SPS Plenary 3 Commemorative session prof. Wiesław Barwicz, *Plenary Room*, Chairman: Wiesław Barwicz

08:00–18:00 Trip Wroclaw Old Town

08:00–15:00 Trip KFB Acoustics

08:00–15:00 Trip Śnieżka by foot

09:00–13:00 Trip Karpacz by foot or Śnieżka by lift

14:00–15:40 Workshop: Measurements of the sound level in rooms, Plenary Room, Chairman: Robert Sokołowski

16:00–19:00 Workshop: Strategic noise maps, Plenary Room, Chairman: Tomasz Malec

16:00–17:20 POLGER Ultrasound 46 40 60 61, Room 70, Chairman: Arkadiusz Józefczak

- Bielas, Rafał; Kubiak, Tomasz; Józefczak, Arkadiusz
The potential of liquid marbles and Pickering droplets as templates for colloidal capsules (ID: 46)
- Scheller, Lukasz; Cwynar, Krzysztof; Dzida, Marzena H.
Thermodynamic properties of 1-allyl-3-methylimidazolium dicyanamide and 1-vinyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide (ID: 40)
- Jameel, Bassam M; Bielas, Rafał; Józefczak, Arkadiusz
Magnetic Pickering emulsions characterization by ultrasound attenuation spectroscopy (ID: 60)
- Świetlik, Tomasz
Effect on imaging quality of ultrasound probe parameters in Doppler tomography method. (ID: 61)

16:00–17:20 OSA Building acoustics 18 19 20 23, Room 100, Chairman: Romuald Bolejko

- Nowoświat, Artur; Żuchowski, Rafał; Marchacz, Michał; Olechowska, Marcelina
Acoustic adaptation of ventilation system prototypes dedicated to individual classrooms (ID: 18)
- Żuk, Daria; Abramczyk, Norbert ; Jakubowski, Piotr PJ
The influence of composite material manufacturing technology on the change of insulation from impact sounds (ID: 19)
- Abramczyk, Norbert ; Żuk, Daria; Jakubowski, Piotr PJ
Acoustic insulation tests of a multi-layer composite modified with rubber recyclate (ID: 20)
- Kamisiński, Tadeusz
Acoustic aspects of the modernization project of the Pomeranian Philharmonic in Bydgoszcz (ID: 23)

16:00–17:00 OSA Speech & Signal acoustics 48 4 16, Room 50, Chairman: Piotr Staroniewicz

- Zimny, Kamil

Effect of phase modification of sound components on spatial impression in 2 and 3-component signals
(ID: 48)

- Dziechciński, Paweł

Crowd noise spectra for the calculation of the speech transmission index for public address systems
(ID: 4)

- Pluta, Marek Janusz

Control of spectral components in additive resynthesis as a means to alter sensation of consonance in chords (ID: 16)

17:40–18:40 OSA Building acoustics 80 109 62, Room 100, Chairman: Tadeusz Kamisiński

- Pękala, Piotr

Practical aspects of diffuse reflection and sound diffraction modeling in room acoustics simulations
(ID: 80)

- Turkowska, Hanna

Annoyance of noise penetrating partitions in multi-family and multi-function buildings. (ID: 109)

- Suder-Dębska, Katarzyna

Acoustic aspects of the Goseck Circle area (ID: 62)

17:40–18:20 POLGER Environmental acoustics 66 77, Room 70, Chairman: Tadeusz Wszótek

- Stępień, Bartłomiej; Wszótek, Tadeusz; Mleczek, Dominik; Małecki, Paweł; Pawlik, Paweł; Kłaczyński, Maciej; Czapla, Marcjanna

Wind turbine noise annoyance prediction in the low-frequency range (ID: 66)

- Wszótek, Tadeusz

Measurement verification of model calculations results of noise distribution around large industrial plants (ID: 77)

PIĄTEK

29.09.2023

FRIDAY

09:00–13:00 Workshop: Acoustic approvals of residential buildings in Poland, *Plenary Room*,
Chairman: Elżbieta Nowicka

09:00–10:00 OSA Noise & Vibroacoustics 68 43 111, *Room 100*, Chairman: Janusz Piechowicz

▪ Łojek, Paweł; Suder-Dębska, Katarzyna

Investigation of flow features and acoustic radiation of a set of rectangular cavities in a channel
(ID: 68)

▪ Klimek, Aleksandra; Dobrucki, Andrzej B.

Acoustic metamaterial design for levelling the impact of double-wall resonance on sound insulation
(ID: 43)

▪ Piechowicz, Janusz

Acoustic screen as a practical anti-noise protection (ID: 111)

09:00–10:00 POLGER Psychoacoustics 83 92 95, *Room 70*, Chairman: Jan Žera

▪ Majdak, Piotr

Modeling Human Sound-Source Localization: Current State and Future Directions (ID: 83)

▪ Laback, Bernhard

Contextual Localization Bias For A Wide Range Of Azimuth And Frequency Conditions (ID: 92)

▪ Sontacchi, Alois; Blöcher, Christian; Hatheier, Thomas

Experimental setup design to evaluate acoustical privacy protection in small enclosed compartments.
(ID: 95)

10:20–11:20 OSA Noise & Vibroacoustics 37 49, *Room 100*, Chairman: Janusz Piechowicz

▪ Kopania, Joanna Maria; Bogusławski, Grzegorz; Gaj, Patryk; Wójciak, Kamil

Aeroacoustic parameters of the ceiling swirl diffuser with prototype adjustable-blades (ID: 37)

▪ Korytowski, Adam; Wronka, Wojciech

Test stand for study of reverberating plates with adjustable features (ID: 49)

10:20–11:20 POLGER Psychoacoustics 8 81 55, *Room 70*, Chairman: Piotr Majdak

▪ Kociński, Jędrzej; Hafke-Dys, Honorata; Grzywalski, Tomasz; Pastusiak, Anna; Biniakowski, Adam;
Szarzyński, Krzysztof

Analysis of asthma patients' auscultatory sounds. (ID: 8)

▪ Kociński, Jędrzej; Wiecher, Andrzej; Pastusiak, Anna; Puchalska, Magdalena; Sudaj, Natalia;
Górniak, Marcin

*The use of psychoacoustic tests and objective methods of hearing examination in the study of
Alzheimer's disease patients* (ID: 81)

▪ Žera, Jan

Profile Analysis: A framework for the study of auditory sound spectrum analysis (ID: 55)

11:40–12:40 OSA Noise & Vibroacoustics 34 53 90, Room 100, Chairman: Piotr Jakubowski

▪ Ilewicz, Grzegorz

Investigation of tribological interactions influence on dynamics of optimal surgical robot with DC motor and PID controller taking into account inputs from in vitro experiments on cardiovascular tissue (ID: 34)

▪ Trojanowski, Roman; Wiciak, Jerzy

Impact of changes in the shape of sensor part of sensor-actuator hybrid on its effectiveness in plates' vibroacoustic reduction (ID: 53)

▪ Małecko, Paweł; Pietrzak, Paula; Perz, Rafał; Zakrzewski, Filip; Matyjewski, Marek

Analysis of Dynamic Mechanical Properties of Composite Materials for Electric Guitar Construction (ID: 90)

11:40–12:40 POLGER Speech acoustics 1 5 75, Room 70, Chairman: Jędrzej Kociński

▪ Staroniewicz, Piotr

Subjective tests of speaker recognition for selected voice disguise techniques (ID: 1)

▪ Kucharski, Mateusz A

Lossy coding and bitrate effects on changes in formant frequencies in Japanese and English speech signals (ID: 5)

▪ Pastusiak, Anna; Kociński, Jędrzej; Warzybok-Oetjen, Anna

Validation of Adaptive Categorical Listening Effort Scaling (ACALES) for Polish language. (ID: 75)

13:00–14:00 Closing ceremony OSA2023, Plenary Room, Chairman: Jerzy Wiciak

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