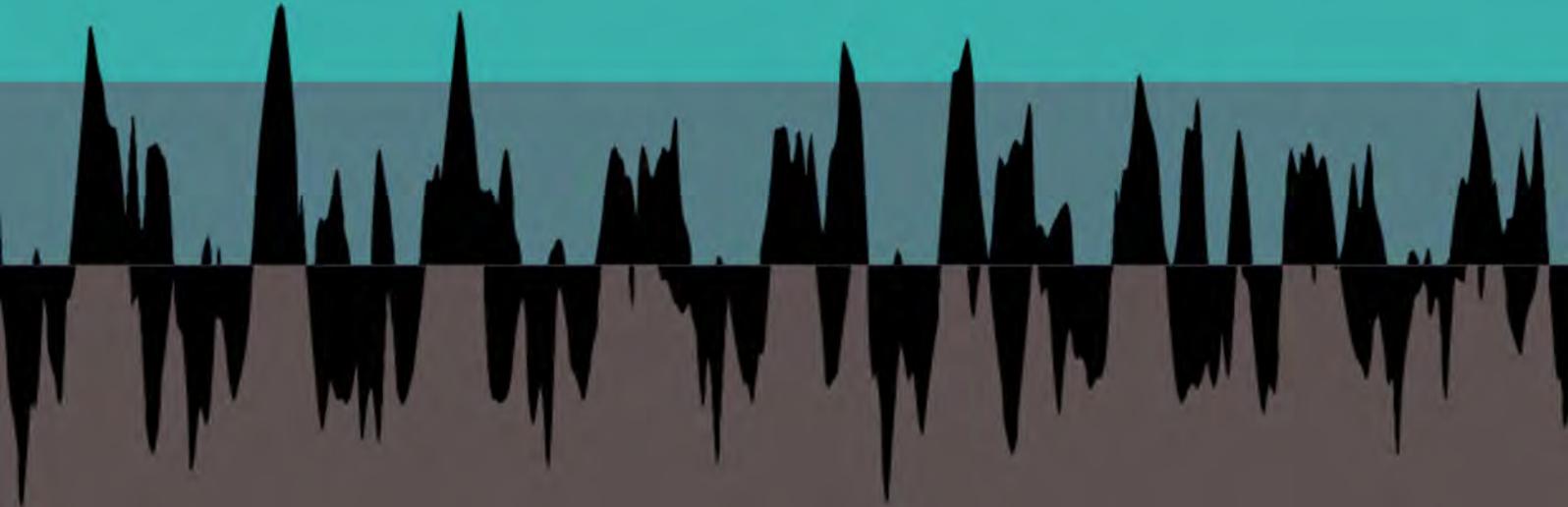


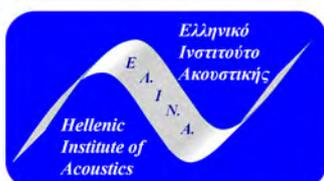
Euronoise 2018 Crete

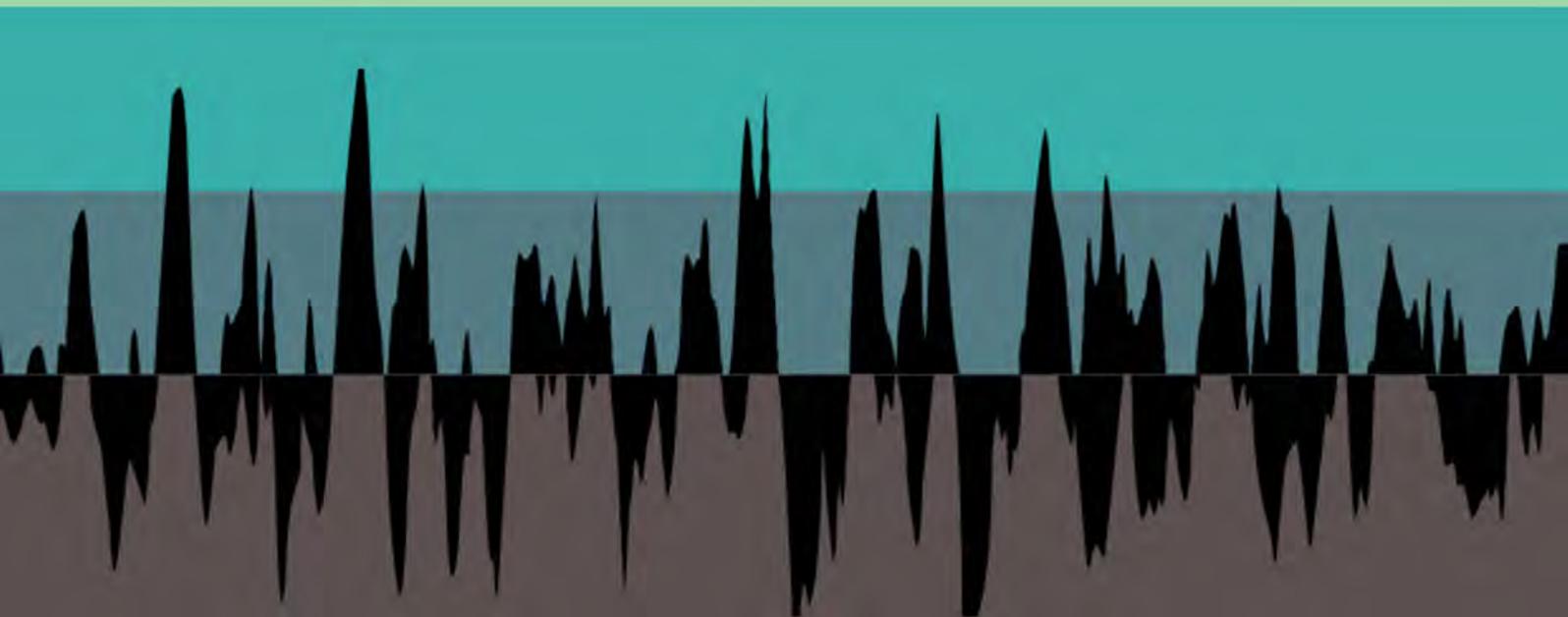


HERSONISSOS, CRETE, GREECE | 27-31 MAY, 2018



Conference Programme





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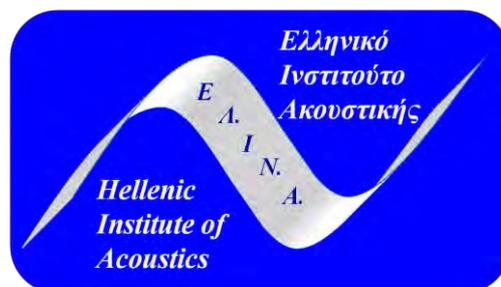
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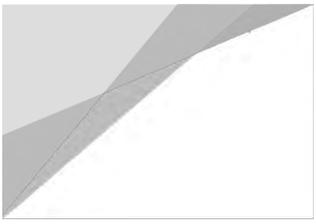


Reduce Noise to Improve Life

Euronoise 2018 Conference
Crete, Greece, May 28–31, 2018

Programme





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Preface

Dear Colleagues,



“Reduce Noise to Improve Life” is the motto of Euronoise 2018, the 11th European Congress and Exposition on Noise Control Engineering, to be held in Crete between 27 and 31 of May 2018.

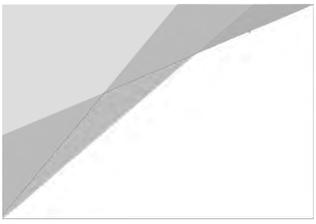
Acousticians and noise experts from all over the World are gathering in Crete to discuss recent research outcome and innovations in noise pollution, noise and vibration control, soundscape, and many related topics. Acousticians and especially those involved in noise issues are well aware of the fact that we, as scientists, have to provide our skills in order to make the life of the people more comfortable and healthy, to protect the environment from any man-made invader that threatens its quality through our uncontrollable technological products, which might make our everyday life easier but sometimes not better. Of course, sound is also the means of human communication and the soundscapes that characterize our life are full of sounds. The pursuit of the proper equilibrium between sounds and unwanted noise is our goal and we are obliged to combine our forces to achieve it.

Euronoise is one of the main conferences organized by the European Acoustics Association (EAA), an association gathering 33 national acoustic societies from all over Europe. EAA is very sensitive to noise issues and their initiative to promote the Noise Awareness Day last year, resulted in the coordination of pan-european events dedicated to the raising of awareness among young people and triggered official discussions in the European Commission about the existing legislation in Europe on noise control. Euronoise 2018 may be considered as a continuation of the EAA efforts towards a better environment.

The Hellenic Institute of Acoustics (HELINA) warmly welcomes you to Crete, for Euronoise 2018. The organizing committee of the Conference and the secretariat and technical staff of the conference, did their best to offer to the participants a friendly environment giving them the possibility to enjoy the nature of Crete, the biggest island in Crete, with a long history and long tradition in research and education, which is cultivated in the Universities and Research Institutes of the island.

Welcome to Crete and enjoy our conference.

*Prof. Michael Taroudakis,
EURONOISE 2018 Chairman*



d

Greetings from EAA President

Dear Colleagues and Friends,



On behalf of the European Acoustics Association (EAA), it is my pleasure to welcome you all to the EURONOISE2018 Congress, hosted and organized by the Acoustical Society of Greece, HELINA.

The chosen location for the EURONOISE2018 -, Island of Crete -, was a great decision. We gather here diving into millenniums of ancient history, extraordinary myths and astonishing stories, like the love story of Zeus for Europa, the daughter of the King of Phoenicia. EAA is proud to come to Greece, the birthplace of democracy, and breathe the ancient world of Human heritage.

The EAA is a non-profit entity established in 1992 that includes in its membership societies predominantly from European countries interested in the promotion, development and progress of acoustics in its different aspects, technologies and applications. EAA gathers 33 societies of acoustics and serves more than 9000 individual members all over Europe, being also an affiliate member of the International Commission for Acoustics and of the Initiative for Science in Europe.

To pursue its objectives, the EAA delegates in its member societies the organization of EAA Conferences in a three year-cycle, respectively: EURONOISE, FORUM ACUSTUM and EUROREGIO. And this year, is the time for EURONOISE2018. This Congress is one of the most important EAA Conferences for those working in noise management, assessment and control. It gives an outstanding opportunity to meet, discuss, exchange ideas, and establish partnerships, thus promoting the research and development of this scientific branch of Knowledge, in order to duly serve the needs of the Human being.

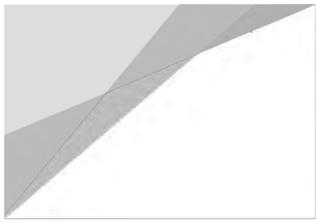
EAA comprises five important outreach and informative products (<https://euracoustics.org/activities>), among which I would like to highlight the Journal Acta Acustica united with Acustica, published bi-monthly, and supports the participation of young students in international conferences through a program for travel grants giving also awards to best papers and presentations.

From EAA side, I want to thank the EURONOISE2018 organizing Committee which under the excellent coordination and leadership of Prof. Michael Taroudakis have done an excellent job for such a successful Congress. A special thank goes also to Prof. Nikolaos Barkas and HELINA, for hosting this EAA Conference in Greece, and last but not the least to the Head Genuit Foundation for having sponsored the EAA best paper and presentation awards.

To finalize, I must stress that EAA is not only concerned with the present. It is also thinking in future. The Young Acousticians Network (YAN), addressed to new generations of acousticians, makes an EAA powerful platform to join interests, create synergies, spread initiatives and be part of a better world.

Thank you, be touched by Greece, and enjoy the Congress.

Prof. Jorge Patrício, EAA President



f

Greetings from HELINA President

Dear Euronoise 2018 participants,



We wish you a pleasant stay in Crete and a creative engagement with the whole spectrum of the conference.

The HELLENIC INSTITUTE OF ACOUSTICS (HELINA) was founded in 2002 with the aim of bringing together Greek scientists who are academically or professionally active in acoustics. From the very beginning, the HELLENIC INSTITUTE OF ACOUSTICS has been a member of the European Acoustics Association (EAA), which greeted its creation. HELINA has recently joined the International Commission for Acoustics as well. Since 2006, HELINA is hosted by the Foundation for Research and Technology – Hellas (FORTH) in Heraklion.

HELINA was established in order to contribute to the development of this scientific field in Greece. Thus, the Institute assists with the spread of knowledge and experience existing in Acoustics and evolution of novel concepts and ideas.

The common activities of the Institute comprise:

- the organization of the Hellenic Acoustics Conference every two (2) years (this year the 9th conference will take place in October in the University of Patras)
- the participation in the INAD (international noise awareness day)
- the development and establishment of a new national Sound Insulation Regulation
- the expression of opinion and the provision of advice on any problem raised in the Greek society related to Acoustics
- the highlighting of issues regarding the protection and the current use of Greek ancient theaters, especially during the last two years

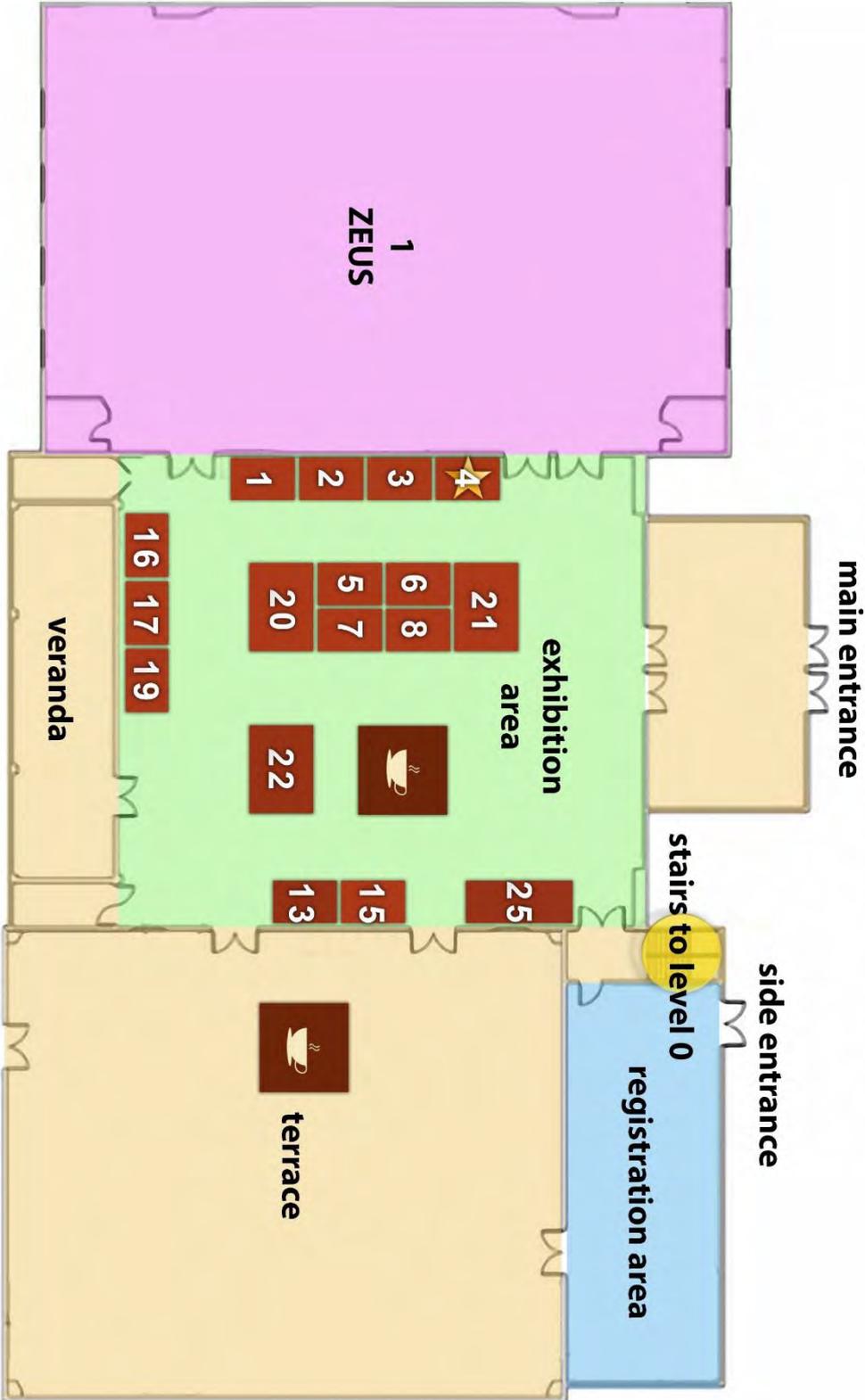
Dear Colleagues, ladies and gentlemen, thank you for your presence

Before closing, I would also like to thank the local organizing committee headed by Professor Michael Taroudakis, ICA President, for the organization of the event.

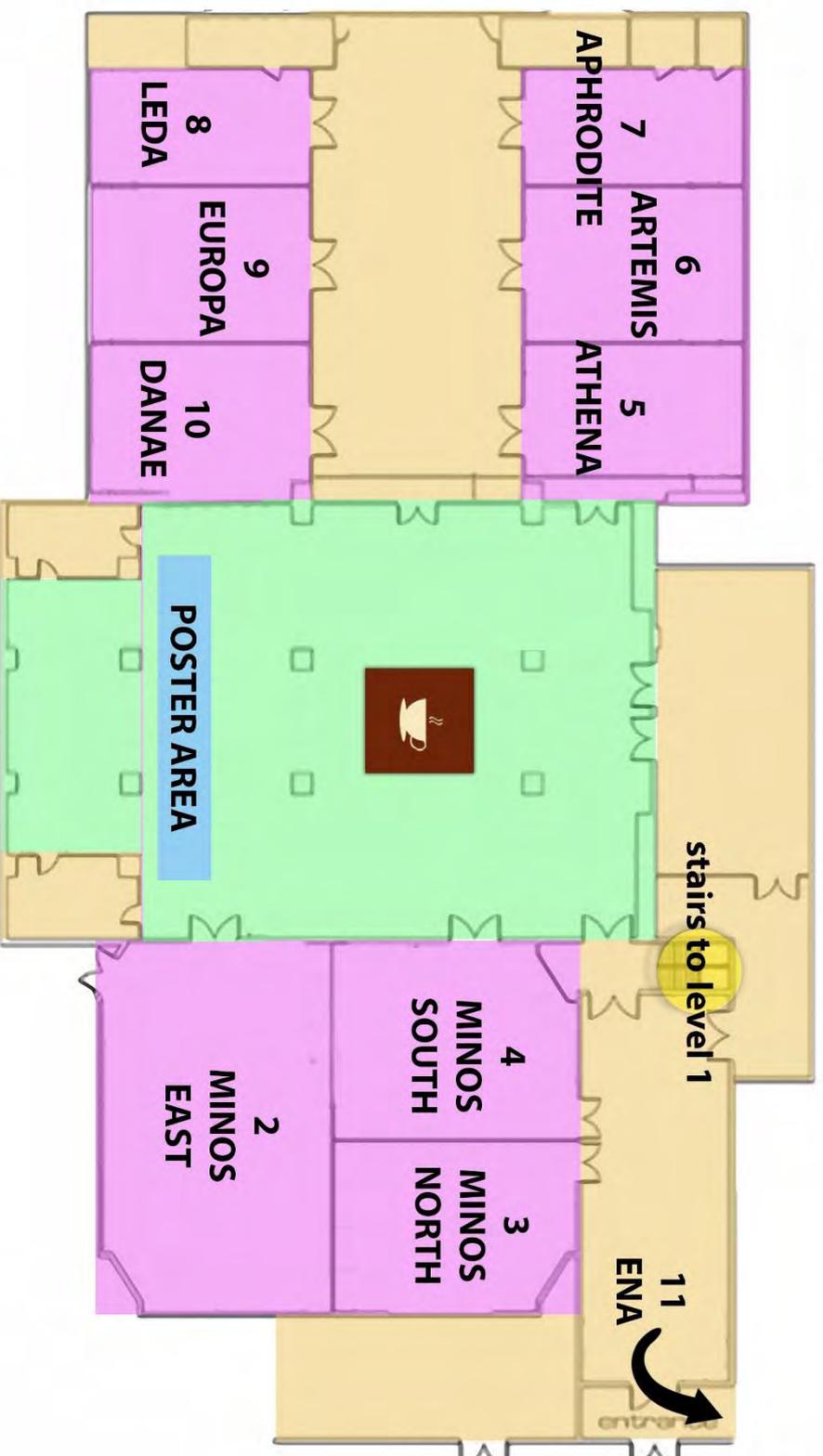
Prof. Nikolaos Barkas, HELINA President

Conference Venue – Lecture Rooms

CONFERENCE CENTRE - LEVEL 1



CONFERENCE CENTRE - LEVEL 0

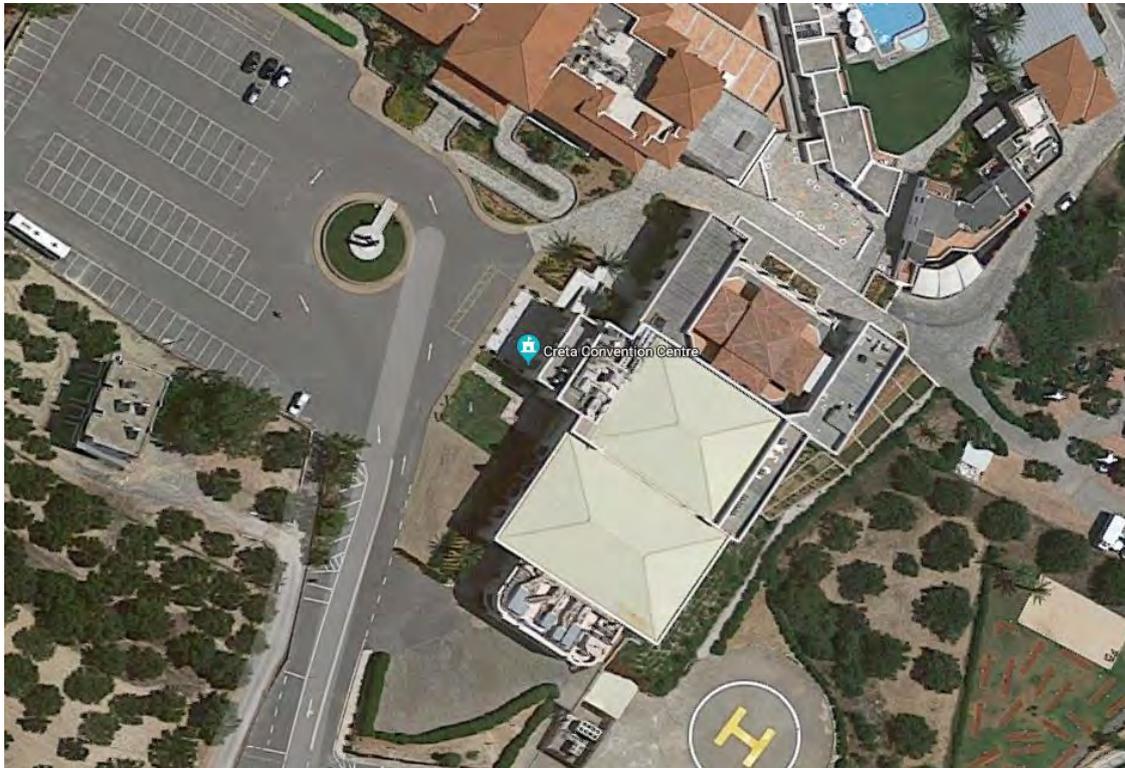


Programme Overview – Timetable

	Monday 28th												Tuesday 29th																								
	1	2	3	4	5	6	7	8	9	10	11	P	1	2	3	4	5	6	7	8	9	10	11	P													
08:40 - 09:00													2.1											20.4													
09:00 - 09:20	Opening												18.1	X	15.2	10.1	18.5	12	X	17	11.1	23	25.2	10													
09:20 - 09:40													X	X	X	X	X	X	X	X	X	X	X	X	18												
09:40 - 10:00													X	X	X	X	X	X	X	X	X	X	X	X	20												
10:00 - 10:20	K1												X	X	X	X	X	X	X	X	X	X	X	X													
10:20 - 10:40													X	X	X	X	X	X	X	X	X	X	X	X													
10:40 - 11:00	Coffee break												Coffee break																								
11:00 - 11:20	18.4	14.3	16	10.4	18.3	1.1	20.2	17.1	11	4.1	25.1		K2																								
11:20 - 11:40	X	X	X	X	X	X	X	X	X	X	X																										
11:40 - 12:00	X	X	X	X	X	X	X	X	X	X	X		X	X					X																		
12:00 - 12:20	X	X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	17	X	23	X														
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13:00 - 14:20	Lunch break												Lunch break																								
14:20 - 14:40	X	X	19.1	X	X	X	X	X	11.4	X	25.3	11	X	4.2	X	10	18.7	14.1	20.3	17.4	11.2	12.1	X	5													
14:40 - 15:00	X	X	X	X	X	X	X	X	X	X	X	16	X	X	X	X	X	X	X	X	X	X	X	12													
15:00 - 15:20	X	X	X	X	X	X	X	X	X	X	X	19	X	X	X	X	X	X	X	X	X	X	X	17													
15:20 - 15:40	X	X	X	X	X				X	X	X		X	X	X	X	18	X	X	X	X	X	X														
15:40 - 16:00	X	X	X	X	X			17.2	X	X			X	X			X	X			11.3	X															
16:00 - 16:20	X	X	X					X					X	X			X	X			X																
16:20 - 16:40	Coffee break												Coffee break																								
16:40 - 17:00	X	X	X	10.3	21	X	16.1	X	X	19.2			X	X	15.1	28	X		20	5	X	X	20.1														
17:00 - 17:20	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X		X	X	X	X	X														
17:20 - 17:40	X	X	X	X	X	X	X	X	X	X			X	X	X	X	X		X	X	X	X	X														
17:40 - 18:00	X	X	X	X	X	X	X	X	X	X	19		X	X	X		X		X	X	X	X	X														
18:00 - 18:20	X	X	X	X	X	X	X	X		X			X	X					X	X	X		X														
18:20 - 18:40	X	X	X	X			X	X		X			X	X										X													
18:40 - 19:00	X									X																											

Wednesday 30th										Thursday 31st										
1	2	3	4	5	6	7	8	9	10	1	2	3	4	5	6	7	8	9	P	
	18.6										17.6	16.2								08:40 - 09:00
21.1	X	16.2	10.2	18.9	12.2	18.2	27.1	15	7.1	21.1	X	X	29.1	18.8	14.2	13.1	27.2	6	1	09:00 - 09:20
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	9	09:20 - 09:40
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	13	09:40 - 10:00
X	X	X	X	X	12.3	X	X	X	X	X	X	X	X	X	X		X	X	27	10:00 - 10:20
	X	X	X	X	X		X	X	X	X	X	X		X	X		X	X		10:20 - 10:40
Coffee break										Coffee break										10:40 - 11:00
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										X	X	X	X	X	X	X	X			11:20 - 11:40
										X	X	X	29	X	X	X				11:40 - 12:00
X	X	X	X	X	17.3	X	X		11.5	X	X	X	X	X		X				12:00 - 12:20
X	X	X	X	X	X	X	X		X	X	X	X	X	X						12:20 - 12:40
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	X			X																13:00-13:20

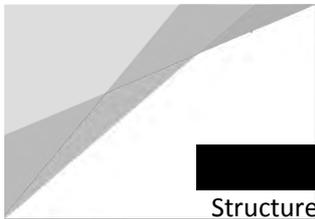
Conference Venue



Programme Overview - Sessions

Topic / Session	Day	Time	Lecture room
ABSORBING MATERIALS			
Structured Session 1.1 - Acoustic and Elastic Metamaterials	Monday	11:00 – 18:20	6
Regular Session 1 – Absorbing Materials	Thursday	11:00 – 11:40	8
Poster Session 1 – Absorbing Materials	Thursday	09:00 – 12:40	Poster area
AEROACOUSTICS			
Structured Session 2.1 - Aeroacoustics	Tuesday	08:40-13:00	2
AIRPORT NOISE			
Structured Session 4.1 - Airport Noise	Monday	11:00-16:00	10
Structured Session 4.2 - Aircraft/Helicopter Noise	Tuesday	14:20-18:40	2
AUDIOLOGY			
Regular Session 5 - Audiology	Tuesday	16:40-18:20	8
Poster Session 5 - Audiology	Tuesday	14:20-18:00	Poster area
AURALISATION			
Regular Session 6 – Auralisation	Thursday	09:00-10:40	9
COMPUTATIONAL ACOUSTICS			
Structured Session 7.1 - Advances on numerical methods for computational acoustics	Wednesday	09:00-10:40	10
Regular Session 7 – Computational Acoustics	Thursday	11:00-12:40	1
GENERAL LINEAR AND NON-LINEAR ACOUSTICS			
Poster Session 9 - General linear and non-linear acoustics	Thursday	09:00-12:40	Poster area
HEALTH EFFECTS OF SOUND			
Structured Session 10.1 - Noise and hearing aids: A bidirectional association	Tuesday	09:00-13:00	4
Structured Session 10.2 - Building Acoustics and Health	Wednesday	09:00-13:00	4
Structured Session 10.3 - Effects of noise on work-related communication disorders	Monday	16:40-18:40	4
Structured Session 10.4 - Noise indicators for impact assessment	Monday	11:00-16:00	4
Regular Session 10 – Health Effects of Sound	Tuesday	14:20-15:40	4
Poster Session 10 – Health Effects of Sound	Tuesday	09:00-12:40	Poster area

MEASUREMENT TECHNIQUES			
Structured Session 11.1 - Measurement, modelling and assessment of industrial noise	Tuesday	09:00-13:00	9
Structured Session 11.2 - Advanced Measurement techniques in building acoustics, part 1: New and consolidated material	Tuesday	14:20-15:40	9
Structured Session 11.3 - Advanced Measurement techniques in building acoustics, part 2: Experimental vibroacoustics	Tuesday	15:40-18:20	9
Structured Session 11.4 - Noise monitoring	Monday	14:20-18:00	9
Structured Session 11.5 - Measurement of Airborne Ultrasound: Methods and Standards	Wednesday	12:00-13:00	10
Regular Session 11 - Measurement Techniques	Monday	11:00-12:40	9
Poster Session 11 - Measurement Techniques	Monday	14:20-18:00	Poster area
NOISE AND VIBRATION CONTROL			
Structured Session 12.1 - Noise control in low emission zones	Tuesday	14:20-18:00	10
Structured Session 12.2 - Smart and holistic solutions for acoustic comfort	Wednesday	09:00-10:00	6
Structured Session 12.3 - Active Noise and Vibration Control	Wednesday	10:00-10:40	6
Regular Session 12 – Noise and Vibration Control	Tuesday	09:00-13:00	6
Poster Session 12 – Noise and Vibration Control	Tuesday	14:20-18:00	Poster area
NOISE BARRIERS			
Structured Session 13.1 - Noise Barriers, absorbive claddings and diffractive barrier tops	Thursday	09:00-12:20	7
Poster Session 13 - Noise Barriers	Thursday	09:00-12:40	Poster area
NOISE LEGISLATION, STANDARDS AND REGULATIONS			
Structured Session 14.1 - Knowledge and research gaps for a better implementation of the Environmental Noise Directive	Tuesday	14:20-16:20	6
Structured Session 14.2 - Harmonisation of classroom acoustics standards in Europe	Thursday	09:00-12:00	6
Structured Session 14.3 - Acoustic Regulations, Enforcement and Classification for new, existing and retrofitted buildings	Monday	11:00-18:40	2



NOISE MAPPING

Structured Session 15.1 - Strategic Environmental Noise Mapping for Urban Agglomerations and Airports	Tuesday	16:40-18:40	3
Structured Session 15.2 - The New CNOSSOS calculation method for environmental noise of road, railway and industrial noise	Tuesday	09:00-15:40	3
Regular Session 15 – Noise Mapping	Wednesday	09:00-10:40	9

RAILWAY NOISE

Structured Session 16.1 - Rail Traffic Noise and Vibration	Monday	16:40-18:40	7
Structured Session 16.2 - Rail Traffic Noise and Vibration: modelling and measurement	Wednesday	09:00-13:00	3
Structured Session 16.2 - Rail Traffic Noise and Vibration: modelling and measurement	Thursday	08:40-12:40	3
Regular Session 16 – Railway Noise	Monday	11:00-13:00	3
Poster Session 16 – Railway Noise	Monday	14:20-18:00	Poster area

BUILDING ACOUSTICS

Structured Session 17.1 - Façade Insulation and protection against outdoor noise	Monday	11:00-15:20	8
Structured Session 17.2 - Low frequency sound insulation	Monday	15:40-18:40	8
Structured Session 17.3 - Influence of construction details on sound insulation of light-weight and wooden building	Wednesday	12:00-12:20	6
Structured Session 17.4 - Annoyance due to low-level sounds transmitted to dwellings	Tuesday	14:20-15:40	8
Structured Session 17.6 - Predicting vibration, impact and structure-borne sound in buildings	Thursday	09:00-12:40	2
Regular Session 17 – Building Acoustics	Tuesday	09:00-13:00	8
Poster Session 17 – Building Acoustics	Tuesday	14:20-18:00	Poster area

ROOM ACOUSTICS

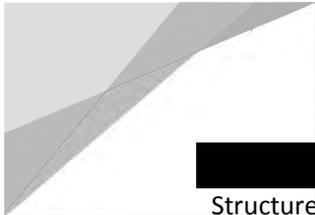
Structured Session 18.1 - Effect of room acoustics and noise on speech intelligibility and task performance in schools	Tuesday	09:00-18:00	1
Structured Session 18.2 - Noise in children facilities	Wednesday	09:00-13:00	7
Structured Session 18.3 - Voice accommodations in room acoustics and noise	Monday	11:00-16:00	5
Structured Session 18.4 - Office noise : psychological effects and room acoustic design	Monday	11:00-19:00	1
Structured Session 18.5 - Acoustics in large gathering spaces	Tuesday	09:00-13:00	5
Structured Session 18.6 - Acoustics of reverberation chambers	Wednesday	08:40-13:20	2
Structured Session 18.7 - Objective and subjective approach in the assessment of sound diffusion in rooms	Tuesday	14:20-15:20	5
Structured Session 18.8 - Recent trends in numerical modeling in performance Structured spaces: protocols and reliability	Thursday	09:00-12:40	5
Structured Session 18.9 - Archeo-Acoustics	Wednesday	09:00-13:00	5
Regular Session 18 – Room Acoustics	Tuesday	15:20-18:00	5
Poster Session 18 – Room Acoustics	Tuesday	09:00-12:40	Poster area

SOUND PROPAGATION

Structured Session 19.1 - Duct Acoustics	Monday	14:20-18:40	3
Structured Session 19.2 - Outdoor sound propagation	Monday	16:40-17:40	10
Regular Session 19 – Sound Propagation	Monday	17:40-19:00	10
Poster Session 19 – Sound Propagation	Monday	14:20-18:00	Poster area

SOUNDSCAPES

Structured Session 20.1 - Indoor soundscaping	Tuesday	16:40-18:40	11
Structured Session 20.2 - Perception based models of acoustic environment	Monday	11:00-15:20	7
Structured Session 20.3 - Soundscapes of Public Spaces	Tuesday	14:20-15:40	7
Structured Session 20.4 - Soundscape in Standardization	Tuesday	08:40-13:00	7
Regular Session 20 – Soundscapes	Tuesday	16:40-18:20	7
Poster Session 20 – Soundscapes	Tuesday	09:00-12:40	Poster area

**SOURCE IDENTIFICATION AND LOCALIZATION**

Structured Session 21.1 - Source localization and acoustic array processing	Wednesday	09:00-13:00	1
Structured Session 21.1 - Source localization and acoustic array processing	Thursday	09:00-10:40	1
Regular Session 21 – Source Identification and Localization	Monday	16:40-18:20	5

STRUCTURAL ACOUSTICS AND VIBRATION

Regular Session 23 - Structural Acoustics and Vibration	Tuesday	09:00-13:00	10
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ROAD TRAFFIC NOISE

Structured Session 25.1 - Life projects on road traffic noise-LIFE NEREIDE first results	Monday	11:00-12:20	11
Structured Session 25.2 - Tyre / road noise	Tuesday	09:00-15:40	11
Structured Session 25.3 - Noise from bridges and bridge joints	Monday	14:20-15:40	11

UNDERWATER NOISE

Structured Session 27.1 - Underwater Noise I: Monitoring and modelling of the Ambient Noise	Wednesday	09:00-13:00	8
Structured Session 27.2 - Underwater Noise II: Sources and remote sensing of the marine environment	Thursday	09:00-10:40	8
Poster Session 27 – Underwater Noise	Thursday	09:00-12:40	Poster area

WIND TURBINE NOISE AND THERMOACOUSTICS

Regular Session 28 - Wind turbine noise and Thermoacoustics	Tuesday	16:40-17:40	4
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COMMUNITY NOISE

Structured Session 29.1 - Port Noise	Thursday	09:00-11:40	4
Regular Session 29 – Community Noise	Thursday	11:40-12:40	4

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- Prof. George Kalliris, Aristotle University of Thessaloniki
- Prof. Penelope Menounou, University of Patras
- Prof. John Mourtzopoulos, University of Patras
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- Berndt Zeitler

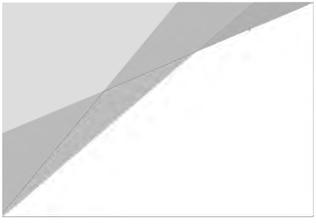


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Plenary Lecturers

Dick Botteldooren

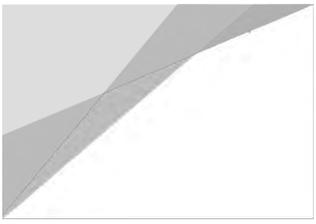
Dick Botteldooren is a full professor at Ghent University where he leads research on Acoustics and teaches a variety of courses related to sound and computational methods.



Dick Botteldooren was born in 1963 in Oudenaarde, Belgium. He obtained an MSc degree in Electronic Engineering in 1986 from Ghent University and a PhD in Applied Science in 1990 from Ghent University. In 1992 he became interested in acoustics and in particular environmental noise and obtained a post-doctoral fellowship with the Belgian National Fund for Scientific Research. In April 1993, he became a part-time professor at Ghent University. Since October 2000 he is a full-time professor in acoustics. Between 2004 and 2013 he was the Editor-in-Chief of Acta Acustica united with Acustica, the journal of the European Acoustics Association. Until 2018 he was the president of the Belgian Acoustical Society; currently he is I-INCE vice-president for Europe and Africa. He is a fellow of the Acoustical Society of

America.

Dick Botteldooren has made research contributions in the field of acoustic modeling, noise mapping, environmental sensor networks, computational intelligence, modeling perception of environmental sound, health impacts of sound, biomonitoring, urban sound planning, soundscapes, and noise policy support. This work was reported in 140 journal publications and several hundred conference contributions. Based on his expertise he was an advisor for national and international health councils, and noise policy makers.



Gaetano Licitra



In 1985 I got a Bachelor and Master Degree in Physics –, 110/110 cum laude at University of Catania (IT). Then in 1988 I got the Post Graduated Specialization in Health Physics cum laude at University of Pisa (IT).

In 1988 I was appointed as Physicist at the National Health Service and in 1996 I have been employed by the Regional Agency of Environmental Protection (ARPAT) of Tuscany as Physicist Manager. From 2015 I am Director of Costal Area at ARPAT.

In 2014 I achieved National Academic Qualification as Associate Professor and give lectures of Applied Acoustics at University of Pisa since 1997.

I am associated researcher since 1997 at the IPCF (Institute for Chemical and Physical Processes) and recently at Institute of Acoustics “O. M. Corbino” of the C.N.R. of Rome (ex IDASC now INSEAN -CNR) working on the research branch of the acoustic pollution and the evaluation of the noise exposure of the population.

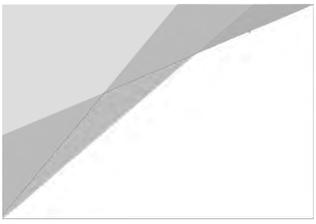
I have been invited by the Ministry of Health to represent Italy in the Steering Group for the elaboration of the new European Directive on Acoustic Pollution at DG XI of the European Commission since 1998.

I have been charged by the European Commission in January 2002 as member of the Working Group “Health and Socio-economic Aspects”, for the predisposition of the technical annexes of the framework Directive on Environmental Noise 2002/49/CE. I’m involved in the WG on noise on END Directive of European Commission since 2017 and a member of the EPON Group (Expert Panel on Noise) of the European Environmental Agency in Copenhagen for the implementation of the Directive 49/2002/CE. I have been appointed by UNI Italian Institute for Standardization as Italian Representative in the European Working Group CEN TC227/WG5/TG3 on “Noise emission from road surfaces”. I was involved in the drafting of CNOSSOS-EU developed by JRC.

I have been entitled temporary TAIEX expert of the European Commission and I have co-worked to the actions for the implementation of the European Directive 49/2002CE on the management of noise in Lithuania, Cyprus, Serbia, Macedonia, Kosovo. I was Short Term Expert in Romania for the Twinning Project RO2006/IB/EN/10 “Support to the National Environmental Guard (NEG) to strengthening its capacity on inspection and control”.

I was the principal investigator for ARPAT in the projects co-financed by the European Community: Harmonoise, Imagine, NNGL, ENNAH, Envhealth, Gionha e HUSH and currently LIFE NEREIDE and Interreg Maritime Mon Acumen and Report.

I am author of nearly 250 publications, 92 reviewed papers and I edited two books: Licitra “Noise Mapping in the EU: Models and Procedures”, August 24, 2012 by CRC Press 424 Pages and Licitra “Physical Agents in the Environment and Workplace: Noise and Vibrations, Electromagnetic Fields, and Ionizing Radiation” CRC Press 2018(in press). Scopus h-index 10.





Higher education

- PhD from Heriot-Watt University (2000). Supervisor: Professor R.J.M. Craik.
- BEng with Honours in Electro-Acoustics (First class) from the University of Salford (1992)

Awards

- Tyndall Medal from the UK Institute of Acoustics in 2012
- Awarded to a UK acoustician for achievement and services in the field of acoustics.
- Engineering Medal from the UK Institute of Acoustics in 2016
- Awarded for outstanding contributions in the field of acoustical engineering.

Professional memberships

- Fellow of the Institute of Acoustics (FIOA)
- Chartered Engineer (CEng)
- Member of the Audio Engineering Society (MAES)
- Member of the Acoustical Society of America (MASA)
- Member of the International Institute of Acoustics and Vibration (MIIAV)

Editorial Roles

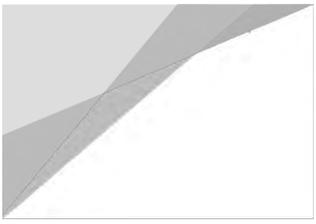
- Member of the Editorial Board – Journal, Acta Acustica united with Acustica (since 2015)
- Member of the Editorial Board – Journal of Applied Acoustics (since 2009)
- Member of the Editorial Board – Journal of Building Acoustics (2001 to 2009)

Standardization Roles

- Chairman – British Standards (BSi) committee EH/1/6 on Standardization in Building Acoustics (Since 2009)
- Convenor – International Standards Organisation (ISO). Three project groups: TC43/SC2/WG18 PG 5, 6, 7 on the measurement of sound insulation for building acoustics applications (Since 2009)
- Convenor – International Standards Organisation (ISO). One working group: ISO TC43/SC2/WG17 on the measurement of flanking transmission for building acoustics applications (Since 2009)
- Committee member – European Committees for Standardisation (CEN). Five working Groups: CEN TC126 WG 1, 2, 5, 6, and 7 on the measurement and prediction of sound insulation for building acoustics applications (Since 1994)
- Committee member – International Standards Organisation (ISO). Two working groups: ISO TC43 SC2 WG 17 and 18 on the measurement of flanking transmission and sound insulation for building acoustics applications (Since 1994)

Employment

- 2007 – Present: Head of the Acoustics Research Unit in the School of Architecture, University of Liverpool. (2013 – Present: Professor in Acoustics, 2009 – 2013: Reader in Acoustics, 2007 – 2009: Senior Lecturer.)
- 2005 – 2006: Self-employed under contract with Elsevier and Butterworth-Heinemann to write a monograph on sound insulation in buildings. 'Sound insulation'.
- 1992 – 2005: Principal Consultant in the Acoustics Centre, Building Research Establishment Ltd (BRE), UK.



Plenary Lectures

A Sound Eutopia

Dick Botteldooren
Ghent University, Belgium

Summary

The sound of a city reflects its functioning, its heart beat. It could accentuate lively commercial neighborhoods, historical and religious places, and restorative urban green. However, the rapid growth of cities combined with mechanization has equalized urban sound climates over the last century to become a monotonous hum. Soundscape has been introduced as a concept to counteract this trend, yet the perception and understanding of the sound environment is often considered late in the urban planning process and at a local scale. So how can we find our sound eutopia, a city where planners consider sound from the initial stages of conceptualization of a neighborhood, where developers have sound in mind while creating the built environment, where people co-create and co-maintain their common soundscape? Today, we reached a level of knowledge that allows to understand the needs and desires of the (future) users of a space or at least we have the tools and methodologies to identify them. While bringing this knowledge to action, the wide range of spatial scales involved need to be considered. Development at each scale should create opportunities for soundscape design at a lower scale or at least should avoid jeopardizing them. In most countries society and technology change at a much faster pace than the built environment which creates a challenge for urban sound planning for reaching a soundscape sustainability. Smart city concepts, internet-of-things, and equivalent connectivity create new opportunities and tools for urban sound design. Augmented reality seems an ideal tool for soundscape (re)design; digital twinning may connect planners, managers, city authorities to their urban areas; machine listening and recommendation may adapt the public space to the users of the day. So maybe sound eutopia is going to be a virtual utopia.



Out of the labyrinth: lights and shadows of noise mapping in CNOSSOS era

Gaetano Licitra
INSEAN –CNR, Italy

Summary

Noise maps according to CNOSSOS-EU common noise assessment methods are becoming a reality with the recent update of annex II of the Environmental Directive 2002/49/EC. Difficulties and differences among member states emerged from the previous round of noise maps. Thus, a long process resulted necessary to the EU to publish a new method aligning member states in the noise mapping procedure, which will be mandatory in the next round of mapping, to be held in 2022. The method will contribute to determine the exposure and communication information in a sound framework, solving the incomparability experienced with the interim approach. Besides CNOSSOS constitutes a relevant step forward to noise mapping implementation and usefulness, the effective mapping process still presents some flaws, especially in the information and action planning phases. The collaboration of experts first testing the method in real scenario also unveiled some dark sides of CNOSSOS that are still to be enlightened and fixed. The several issues arose on this topic will be summarized. The operational difficulties observed will be presented together with solution experienced in involving the population in the subject. Keeping in mind that the ultimate aim of noise policy is citizens' health care, attention will be given to the initiative that will reduce the well-known effects of noise, which has been deeply investigated in the very last decade. In this concern, noise maps have been well used for epidemiological purpose in some studies that will be presented in order to show the approaches and the indicators currently used to prevent noise health effects. In fact, proper noise mitigations cannot be realized without considering the real health risks, but instead, they should be based on health indicators targets as suggested by the directive, without simply referring to zoning limits, which unfortunately does not always keep into account people disturbance to noise.

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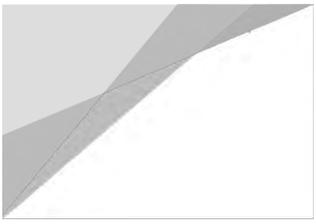
Sound transmission in buildings: recent developments and current challenges in measurement and prediction

Carl Hopkins

Acoustics Research Unit, School of Architecture, University of Liverpool, Liverpool, UK.

Summary

Research on sound transmission in buildings tends to be driven by regulations, standards, product development, and by acousticians that need measurement and prediction tools along with empirical evidence on acoustic performance that can inform design work. This paper focuses on recent developments and highlights current challenges in the measurement and prediction of sound transmission, primarily in airborne and impact sound insulation and noise from service equipment. In recent standardization work, many of the initiatives to improve the flexibility and accuracy of prediction models have required simultaneous updates to laboratory and field measurement standards. Measurement and prediction of low-frequency performance remains an important issue; however, future work on identifying appropriate parameters and limits would benefit from building consensus through simultaneous consideration of subjective evaluation alongside the practicalities and uncertainties in measuring and predicting sound insulation at low-frequencies. As prediction models for steady-state sound and structure-borne sound sources in standards reach a state of maturity there is also a need to address the prediction of parameters such as the Fast time-weighted maximum sound pressure level from transient sources such as machinery inside increasingly mechanized buildings. In general, the advances that have been made in measurement and prediction have implications relating to the skills that are required from those seeking a career in building acoustics.



Conference Programme

Monday 28th May, 2018

Opening

Lecture room 1 | Monday 28th May | 09:00 – 10:00

Plenary Lecture

Lecture room 1 | Monday 28th May | 10:00 – 10:40

10:00 - 10:40 Dick Botteldooren

1 | P-1 | A SOUND EUTOPIA

Lecture room 1

Structured Session 18.4 - Office noise: psychological effects and room acoustic design

Organizer(s): Hongisto Valteri, Andreas Liebl

Chairpersons: Hongisto Valteri, Andreas Liebl

Lecture room 1 | Monday 28th May | 11:00 – 19:00

11:00 - 11:20 *Hongisto Valtteri, Maula Henna, Koskela Hannu, Haapakangas Annu, Hakala Jarkko*

1 | S18.4-1 | EFFECT OF ROOM ACOUSTICS, TEMPERATURE AND VENTILATION RATE ON WORK PERFORMANCE IN OPEN-PLAN OFFICES

Presenter: Hongisto Valtteri

11:20 - 11:40 *Hongisto Valtteri, Oliva David*

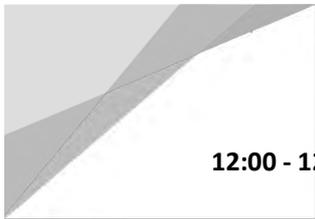
1 | S18.4-2 | PREFERRED SOUND MASKING SPECTRUM

Presenter: Hongisto Valtteri

11:40 - 12:00 *Di Blasio Sonja, Vannelli Giuseppe, Shtrepi Louena, Masoero Marco Carlo, Astolfi Arianna*

1 | S18.4-3 | A SUBJECTIVE INVESTIGATION ON THE IMPACT OF IRRELEVANT SPEECH NOISE ON HEALTH, WELL-BEING AND PRODUCTIVITY IN OPEN-PLAN OFFICES

Presenter: Di Blasio Sonja



12:00 - 12:20

Renz Tobias, Leistner Philip, Liebl Andreas

1 | S18.4-4 | A SIMPLE MODEL TO PREDICT THE COGNITIVE PERFORMANCE IN DISTRACTING BACKGROUND SPEECH

Presenter: Renz Tobias

12:20 - 12:40

Liebl Andreas, Martin Noemi, Brandstaett Peter

1 | S18.4-5 | THE RATING LEVEL: WHAT IS IT AND IS IT A SUITABLE SET VALUE FOR THE ACOUSTIC QUALITY OF OFFICE WORKPLACES?

Presenter: Liebl Andreas

12:40 - 13:00

Kostallari Krist, Parizet Etienne, Chevret Patrick, Amato Jean-Noël, Galy Edith

1 | S18.4-6 | FATIGUE AND ANNOYANCE DUE TO NOISE IN OPEN-PLAN OFFICES: A LABORATORY STUDY

Presenter: Kostallari Krist

Lunch break

14:20 - 14:40

Barney Tania, Hodsman Paige

1 | S18.4-7 | ONE SIZE DOES NOT FIT ALL: NEUROPHYSIOLOGICAL FACTORS IN OFFICE DESIGN

Presenter: Tania Barney Paige Hodsman

14:40 - 15:00

Senan Toros Ufuk, Kohlrausch Armin, Jelfs Sam

1 | S18.4-8 | PSYCHOACOUSTIC MODELLING OF THE CHANGING-STATE HYPOTHESIS IN SHORT-TERM MEMORY EXPERIMENTS INVOLVING SERIAL RECALL

Presenter: Senan Toros Ufuk

15:00 - 15:20

Sukowski Helga

1 | S18.4-9 | PROOFREADING AS A METHOD TO INVESTIGATE EFFECTS OF BACKGROUND NOISE ON COGNITIVE PERFORMANCE IN AN OCCUPATIONAL CONTEXT: THE ROLE OF DIFFERENT KINDS OF CONSTRUCTED MISTAKES IN THE READING MATERIAL EMPLOYED

Presenter: Sukowski Helga

15:20 - 15:40

Leite Debora , Motta Rodrigo, Monteiro Carolina, Borin Marcel

1 | S18.4-10 | DEVELOPMENT AND APPLICATION OF QUESTIONNAIRES TO ASSESS ACOUSTIC ENVIRONMENT IN OPEN PLAN OFFICES

Presenter: Leite de Camargo Debora

15:40 - 16:00

Chevret Patrick, Lenne Lucas

1 | S18.4-11 | A GROUND STUDY FOR THE EVALUATION OF SOUND MASKING IN OPEN-PLAN SPACES

Presenter: Lenne Lucas

Coffee break

16:00 - 16:20 *Nakazato Marcela, Raeder André, Borin Marcel*

1 | S18.4-12 | A COMPARISON STUDY BETWEEN PREDICTION MODELS AND IN SITU MEASUREMENTS OF ACOUSTIC CLOUDS IN OPEN PLAN OFFICES.

Presenter: Nakazato Marcela

16:40 - 17:00 *Schelle Florian, Selzer Jan*

1 | S18.4-13 | MEASUREMENT AND CLASSIFICATION OF OPEN PLAN OFFICES WITHIN THE FIELD OF OCCUPATIONAL SAFETY AND HEALTH

Presenter: Schelle Florian

17:00 - 17:20 *Selzer Jan, Schelle Florian*

1 | S18.4-14 | PRACTICAL ASPECTS OF MEASURING ACOUSTICS IN GERMAN OPEN PLAN OFFICES

Presenter: Selzer Jan

17:20 - 17:40 *Dickschen Alexander, Bertazzoni Rebecca, Liebl Andreas*

1 | S18.4-15 | EVALUATING ROOM ACOUSTIC QUALITY IN OPEN-PLAN OFFICES BY ADDING THE DISTRIBUTION OF POSSIBLE SOURCE AND RECEIVER POSITIONS TO THE SIMULATION

Presenter: Dickschen Alexander

17:40 - 18:00 *D'Orazio Dario, Rossi Elena, Garai Massimo*

1 | S18.4-16 | IN SITU MEASUREMENTS OF INTELLIGIBILITY IN AN OPEN PLAN OFFICE

Presenter: D'Orazio Dario

18:00 - 18:20 *Borin Marcel, Monteiro Carolina, Leite Debora*

1 | S18.4-17 | A CASE STUDY ON IRRELEVANT SPEECH EFFECT ASSESSMENT AT OPEN PLAN OFFICES USING EQUIVALENT MODULATION

Presenter: Borin Marcel

18:20 - 18:40 *Tavelidou Eleni, Jiang Jian, Barlow Christopher*

1 | S18.4-18 | COMPARISON STUDY OF THREE SPEECH MASKING SOUNDS ON EMPLOYEES' TASK PERFORMANCE IN OPEN-PLAN OFFICE ENVIRONMENTS

Presenter: Tavelidou Eleni

18:40 - 19:00 *Yadav Manuj, Cabrera Densil, Kim Jungsoo, Holmes Jonothan, de Dear Richard, Love James*

1 | S18.4-19 | A PRELIMINARY REPORT ON THE ACOUSTIC MEASUREMENTS AND NOISE SURVEY CONDUCTED IN AUSTRALIAN OPEN-PLAN OFFICES

Presenter: Yadav Manuj



Lecture room 2

Structured Session 14.3 - Acoustic Regulations / Enforcement and Classification for new /existing and retrofitted buildings

Organizer(s): Birgit Rasmussen, Jorge Patricio, Simone Secchi

Chairpersons: Birgit Rasmussen, Jorge Patricio, Simone Secchi

Lecture room 2 | Monday 28th May | 11:00 – 18:40

11:00 - 11:20 *Schiavi Alessandro, Barbaresi Luca, Di Bella Antonino, Prato Andrea*

2 | S14.3-1 | METHOD FOR THE IN-SITU ESTIMATION OF THE NORMALIZED IMPACT SOUND PRESSURE LEVEL OF FLOATING FLOORS BUILT ON HOLLOW BRICK AND CONCRETE BASE FLOORS FROM DYNAMIC STIFFNESS OF RESILIENT LAYERS

Presenter: Schiavi Alessandro

11:20 - 11:40 *Rasmussen Birgit*

2 | S14.3-2 | ACOUSTIC CLASSIFICATION OF BUILDINGS IN EUROPE – MAIN CHARACTERISTICS OF NATIONAL SCHEMES FOR HOUSING, SCHOOLS, HOSPITALS AND OFFICE BUILDINGS

Presenter: Rasmussen Birgit

11:40 - 12:00 *Caniato Marco, Bettarello Federica, Schmid Chiara, Gasparella Andrea, Schmid Chiara*

2 | S14.3-3 | ACOUSTIC CLASSIFICATION OF DWELLINGS FROM NATIONAL TO INTERNATIONAL STANDARD: A CRITICAL COMPARISON.

Presenter: Caniato Marco

12:00 - 12:20 *Beentjes Wim, Muchall Rein, Kramer Jan*

2 | S14.3-4 | A SIMPLE SYSTEM TO QUANTIFY THE IMPROVEMENT OF IMPACT SOUND INSULATION BY FLOOR COVERINGS

Presenter: Beentjes Wim

12:20 - 12:40 *Dijckmans Arne, De Geetere Lieven, Ingelaere Bart*

2 | S14.3-5 | EMPIRICAL RELATIONSHIPS BETWEEN SINGLE NUMBER QUANTITIES FOR IMPACT SOUND INSULATION

Presenter: Dijckmans Arne

12:40 - 13:00 *Soulier Anne-Marie, Mazouz Louise, Guigou Carter Catherine, Boutet Loïc*

2 | S14.3-6 | NEW FRENCH ACOUSTIC REGULATION FOR BUILDINGS UNDERGOING THERMAL RENOVATION

Presenter: Guigou Carter Catherine

Lunch break

14:20 - 14:40 *Secchi Simone, Cellai Gianfranco, Di Bella Antonino, Fausti Patrizio*

2 | S14.3-7 | SAMPLING STRATEGIES FOR THE VERIFICATION OF ACOUSTIC PERFORMANCES OF BUILDINGS

Presenter: Fausti Patrizio

14:40 - 15:00 *Arato-Borsi Eva, Nagy Attila Balázs, Illyes Laszlo*

2 | S14.3-8 | ROOM AND BUILDING ACOUSTIC REGULATIONS AND DIRECTIVES IN HUNGARY – REVISIONS AND NEW REQUIREMENTS

Presenter: Arato-Borsi Eva

15:00 - 15:20 *Husztly Csaba*

2 | S14.3-9 | NEW HUNGARIAN ROOM ACOUSTICS STANDARDS – THE MSZ 2080 SERIES

Presenter: Husztly Csaba

15:20 - 15:40 *Dong Wayland, LoVerde John*

2 | S14.3-10 | PREDICTING FIELD IMPACT ISOLATION BASED ON THE RATING FOR IMPROVEMENT IN HIGH-FREQUENCY IMPACT ISOLATION

Presenter: Dong Wayland

15:40 - 16:00 *Shieko Mariana, Lemos Elaine, Monteiro Carolina*

2 | S14.3-11 | AN APPROACH ON HOW AN ACOUSTIC CLASSIFICATION SCHEME FOR DWELLINGS CAN BE ADOPTED IN BRAZIL

Presenter: Shieko Mariana

16:00 - 16:20 *Jeong JeongHo, Kim YongHee, Ryu JongKwan, Kim KyoungHo*

2 | S14.3-12 | CLASSIFICATION CRITERIA OF HEAVY/SOFT IMPACT SOUND

Presenter: Jeong JeongHo

Coffee break

16:40 - 17:00 *Kurra Selma*

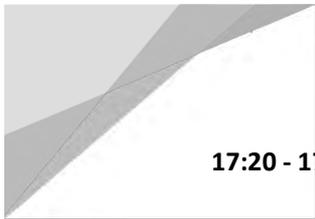
2 | S14.3-13 | APPLICABILITY ANALYSIS OF THE NEW REGULATION ON BUILDING NOISE CONTROL

Presenter: Kurra Selma

17:00 - 17:20 *Jagniatinskis Aleksandras, Fiks Boris, Mickaitis Marius*

2 | S14.3-14 | PRACTICAL EXPERIENCE IN VERIFICATION ACOUSTIC CLASS FOR BUILDING IN OCTAVE VERSUS ONE-THIRD OCTAVE FREQUENCY BANDS

Presenter: Mickaitis Marius



17:20 - 17:40 *Hongisto Valtteri, Keränen Jukka*

2 | S14.3-15 | OPEN-PLAN OFFICES - NEW FINNISH ROOM ACOUSTIC REGULATIONS

Presenter: Hongisto Valtteri

17:40 - 18:00 *Mickaitis Marius, Jagniatinskis Aleksandras, Fiks Boris*

2 | S14.3-16 | REVERBERATION TIME CRITERIA IN SOUND CLASSIFICATION FOR NEW AND RENOVATED BUILDINGS

Presenter: Mickaitis Marius

18:00 - 18:20 *Alonso Alicia, Patricio Jorge*

2 | S14.3-17 | COMPARATIVE STUDY ON THE EFFICIENCY OF IMPACT SOUND REDUCTION PROVIDED BY SAME MATERIALS WHEN DISPOSED ON HOMOGENEOUS AND ON NON-HOMOGENEOUS FLOORS

Presenter: Alonso Alicia

18:20 - 18:40 *Rosão Vitor, Silva João*

2 | S14.3-18 | COMPARISON OF EN 12354-1 TO -4 OF 2000 WITH EN 12354-1 TO -4 OF 2017

Presenter: Rosão Vitor

Lecture room 3

Regular Session 16: Railway noise

Chairperson: Rene Weinandy

Lecture room 3 | Monday 28th May | 11:00 – 13:00

11:00 - 11:20 *Böhm Jenny, Hecht Markus, Isert Nathan, Martner Otto*

3 | S16-1 | IN-SITU SOURCE CHARACTERISATION ON A LIGHT RAIL VEHICLE

Presenter: Böhm Jenny

11:20 - 11:40 *Galatas Alexandros, Dadiotis Konstantinos, Tsoukalas Markos*

3 | S16-2 | ON THE SEPARATION OF RAILWAY NOISE SOURCES IN THE URBAN ENVIRONMENT

Presenter: Galatas Alexandros

11:40 - 12:00 *Guiral Ainara, Blanco Blas, Iturritxa Egoitz, Alonso Asier*

3 | S16-3 | CRONoS RAILWAY ROLLING NOISE PREDICTION TOOL: WHEELSET MODEL ASSESSMENT

Presenter: Guiral Ainara

12:00 - 12:20 *Kamenicky Milan, Lumnitzer Ervin, Hricova Beata*

3 | S16-4 | TRAM-TRAFFIC NOISE ATTENUATION THROUGH INTERRAIL ABSORBERS

Presenter: Hricova Beata

12:20 - 12:40 *Nagy Daniel Szilveszter, Bite Maria dr.*

3 | S16-5 | NOISE AND VIBRATION TESTS FOR THE RECONSTRUCTION OF THE SOUTHERN RAILWAY BRIDGE IN BUDAPEST

Presenter: Nagy Daniel Szilveszter

12:40 - 13:00 *Weiss Bernhard, Tietze Thomas, Schmid Roman, Mach Michael, Achs Guenther*

3 | S16-6 | INFLUENCE OF SLEEPER TYPE ON TRAIN EMISSION

Presenter: Weiss Bernhard

Lunch break

Structured Regular Session 19.1 - Duct Acoustics

Organizer(s): Mats Abom, Tamer Elandy

Chairpersons: Mats Abom, Tamer Elandy

Lecture room 3 | Monday 28th May | 14:20 – 18:40

14:20 - 14:40 *Zhang Zhe , Åbom Mats*

3 | S19.1-1 | THE CREMER IMPEDANCE AT LOW FREQUENCIES

Presenter: Åbom Mats

14:40 - 15:00 *Sayyad Khodashenas Niloofar, Bodén Hans, Boij Susann*

3 | S19.1-2 | DETERMINATION OF NONLINEAR ACOUSTIC PROPERTIES OF PERFORATES USING BAND-LIMITED RANDOM EXCITATION

Presenter: Sayyad Khodashenas Niloofar

15:00 - 15:20 *Buck Ralf, Denker Dietrich*

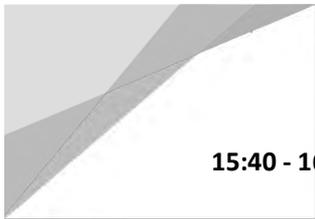
3 | S19.1-3 | FLOW INDUCED NOISE OF RESONATORS ON THE CHARGED AIR SIDE – ARGUING FROM THEORY, TEST STAND MEASUREMENTS AND SIMULATIONS TO SOLUTIONS

Presenter: Buck Ralf

15:20 - 15:40 *Cedric Maury, Teresa Bravo*

3 | S19.1-4 | SOUND WAVE ATTENUATION IN A DUCT WITH A PERIODIC ARRAY OF ULTRATHIN HELMHOLTZ RESONATORS

Presenter: Cedric Maury



15:40 - 16:00

Dang Jianwu, Hou Qingzhi, Wang Futang

3 | S19.1-5 | A STUDY OF SOUND PROPAGATION IN DUCTS WITH A MOVING BOUNDARY WALL

Presenter: Dang Jianwu

16:00 - 16:20

Williams Paul, Kirby Ray, Thomson Jamie, Hill James

3 | S19.1-6 | MEASUREMENT OF DISSIPATIVE SILENCER PERFORMANCE UNDER A NON-PLANAR EXCITATION

Presenter: Williams Paul

Coffee break

16:40 - 17:00

Deaconu Marius, Radulescu Dan , Vizitiu Georget

3 | S19.1-7 | ACOUSTIC STUDY OF DIFFERENT MUFFLERS BASED ON METAMATERIALS USING THE BLACK HOLE PRINCIPLE FOR AIRCRAFT INDUSTRY

Presenter: Radulescu Dan

17:00 - 17:20

Piana Edoardo Alessio, Uberti Stefano, Copeta Alessandro, Carlsson Ulf Eric

3 | S19.1-8 | DESIGN AND TESTING OF A MUFFLER FOR AGRICULTURAL TRACTORS

Presenter: Piana Edoardo Alessio

17:20 - 17:40

Picard Christophe, Finez Arthur , Paillasseur Sébastien

3 | S19.1-9 | IN-DUCT FAN ACOUSTIC ANALYSIS : FROM A RTD PROJECT TO A PRODUCTIVE SOFTWARE TOOL

Presenter: Picard Christophe

17:40 - 18:00

Sack Stefan, Åbom Mats

3 | S19.1-10 | MICRO PERFORATED SURFACES IN HVAC APPLICATION

Presenter: Åbom Mats

18:00 - 18:20

W Nashed Mina, Elnady Tamer, Åbom Mats

3 | S19.1-11 | REVIEW OF SPLITTER SILENCER MODELING TECHNIQUES

Presenter: Elnady Tamer

18:20 - 18:40

Guo Wei, Liu Juan, Bi Wenping, Yang Desen, Aurégan Yves, Pagneux Vincent

3 | S19.1-12 | ANOMALOUS SOUND ATTENUATION BEHAVIOURS IN LINED DUCTS

Presenter: Guo Wei

Lecture room 4

Structured Session 10.4 - Noise indicators for impact assessment

Organizer(s): C. Marquis-Favre, Peter Lercher

Chairpersons: C. Marquis-Favre, Peter Lercher

Lecture room 4 | Monday 28th May | 11:00 – 16:00

11:00 - 11:20 *Lercher Peter, de Coensel Bert, Dekoninck Luc, Botteldooren Dick*

4 | S10.4-1 | ALTERNATIVE TRAFFIC NOISE INDICATORS AND ITS ASSOCIATION WITH HYPERTENSION

Presenter: Lercher Peter

11:20 - 11:40 *Cik Michael, Lienhart Manuel, Fellendorf Martin, Fallast Kurt, Marth Egon, Freidl Wolfgang*

4 | S10.4-2 | NOISE INDICATORS OF ROAD AND RAIL TRAFFIC NOISE BASED ON SUBJECTIVE PERCEPTION, PSYCHOLOGICAL AND PHYSIOLOGICAL PARAMETERS

Presenter: Cik Michael

11:40 - 12:00 *Guski Rainer, Dirk Schreckenber, Rudolf Schuemer*

4 | S10.4-3 | AIRCRAFT NOISE ANNOYANCE - PRESENT EXPOSURE-RESPONSE RELATIONS

Presenter: Guski Rainer

12:00 - 12:20 *Marquis-Favre Catherine, Vallin Pierre-Augustin, Bleuse Jules*

4 | S10.4-4 | SHORT-TERM ANNOYANCE DUE TO RAILWAY NOISE IN URBAN AREAS: INDICES ACCOUNTING FOR DIFFERENT ANNOYING ACOUSTICAL FEATURES

Presenter: Marquis-Favre Catherine

12:20 - 12:40 *De Coensel Bert, Brown A. L.*

4 | S10.4-5 | EVENT-BASED INDICATORS FOR ROAD TRAFFIC NOISE EXPOSURE ASSESSMENT

Presenter: De Coensel Bert

12:40 - 13:00 *Dekoninck Luc, Lercher Peter, Botteldooren Dick*

4 | S10.4-6 | SPATIAL MAPPING OF NOISE MEASUREMENTS AND ANNOYANCE QUESTIONNAIRES TO IMPROVE THE PREDICTION OF TRAFFIC NOISE ANNOYANCE.

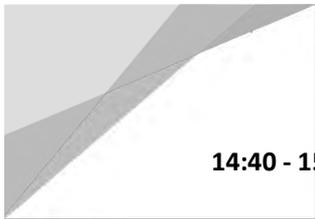
Presenter: Dekoninck Luc

Lunch break

14:20 - 14:40 *Aumond Pierre, Can Arnaud*

4 | S10.4-7 | PROBABILISTIC MODELING FRAMEWORK TO PREDICT TRAFFIC SOUND DISTRIBUTION

Presenter: Aumond Pierre



14:40 - 15:00

Mauny Fred, Pujol Sophie, Vasseur Marie-Barba, Reithmuller Didier, Parmentier Anne-Laure, Thiriez Gérard, Mariet Anne-Sophie, Houot Helene, Brembilla Alice, Bernard Nadine

4 | S10.4-8 | VULNERABILITY DURING PREGNANCY IN AN URBAN ENVIRONMENT: DO ENVIRONMENTAL AND INDIVIDUAL RISK FACTORS CUMULATE?

Presenter: Mauny Fred

15:00 - 15:20

Müller Uwe, Schreckenber Dirk, Möhler Ulrich, Liepert Manfred

4 | S10.4-9 | MAXIMUM-LEVEL AS AN ADDITIONAL CRITERION FOR THE ASSESSMENT OF RAILWAY NOISE AT NIGHT: DERIVATION OF A WAKE-UP PROTECTION CRITERION FOR STANDARDS AND REGULATIONS

Presenter: Müller Uwe

15:20 - 15:40

Schreckenber Dirk, Belke Christin, Benz Sarah, Möhler Ulrich, Müller Uwe, Liepert Manfred

4 | S10.4-10 | MAXIMUM-LEVEL AS AN ADDITIONAL CRITERION FOR THE ASSESSMENT OF RAILWAY NOISE AT NIGHT: DEFINITION OF SLEEP QUALITY AND DERIVATION OF A PROTECTION CRITERION BASED ON REPORTED SLEEP DISTURBANCES FOR STANDARDS AND REGULATIONS

Presenter: Schreckenber Dirk

15:40 - 16:00

Möhler Ulrich, Müller Uwe, Liepert Manfred, Skowronek Viktor, Schreckenber Dirk

4 | S10.4-11 | MAXIMUM SOUND PRESSURE LEVEL AS AN ADDITIONAL CRITERION FOR THE ASSESSMENT OF RAILWAY NOISE AT NIGHT: ACOUSTIC CRITERIA FOR THE MAXIMUM-LEVEL IN REGULATIONS

Presenter: Möhler Ulrich

Coffee break

Structured Session 10.3 - Effects of noise on work-related communication disorders

Organizers: Catherine Cantor Cutiva, Eric Hunter, Pasquale Bottalico

Chairpersons: Catherine Cantor Cutiva, Eric Hunter, Pasquale Bottalico

Lecture room 4 | Monday 28th May | 16:40 – 18:40

16:40 - 17:00

Cantor-Cutiva Lady Catherine, Bottalico Pasquale, Hunter Eric J

4 | S10.3-1 | ARE BROADCASTING AN OCCUPATION AT RISK OF HEARING LOSS?

Presenter: Cantor-Cutiva Lady Catherine

17:00 - 17:20

Ishikawa Keiko, Monson Brian, Khosla Sid, Boyce Suzanne

4 | S10.3-2 | CONTRIBUTION OF HIGH-FREQUENCY ENERGY TO INTELLIGIBILITY OF DYSPHONIC SPEECH IN NOISE

Presenter: Ishikawa Keiko

17:20 - 17:40 *Castellana Antonella, Astolfi Arianna, Vallan Alberto, Puglisi Giuseppina Emma, Shtrepi Louena, Peretti Alessandro, Carullo Alessio, D'Antonio Gianluca, Pierobon Alberta, Bartolucci Giovanni Battista*

4 | S10.3-3 | INVESTIGATION ON TEACHERS' VOCAL BEHAVIOR DURING A SCHOOL YEAR USING SMARTPHONE DEVICES

Presenter: Carullo Alessio

17:40 - 18:00 *Hunter Eric J. , Titze Ingo R.*

4 | S10.3-4 | OCCUPATIONAL VOICE USE DAMAGE RISK CRITERIA IN SCHOOL TEACHERS

Presenter: Hunter Eric J.

18:00 - 18:20 *Banks Russell E., Cantor Cutiva Lady Catherine , Hunter Eric J.*

4 | S10.3-5 | THE RELATIONSHIP BETWEEN VOICE APPLICATION SYSTEMS AND OTHER WORK RELATED FACTORS ON TEACHER'S VOCAL HEALTH.

Presenter: Hunter Eric J.

18:20 - 18:40 *Bockstael Annelies, Vandevelde Annelies, Botteldooren Dick, Verduyckt Ingrid*

4 | S10.3-6 | DEALING WITH ATYPICAL NOISE SOURCES: PERCEIVED DIFFICULTIES WHEN LISTENING TO DYSPHONIC VOICES

Presenter: Bockstael Annelies

Lecture room 5

Structured Session 18.3 - Voice accommodations in room acoustics and noise

Organizers: Viveka Lyberg Ahlander, Pasquale Bottalico

Chairpersons: Viveka Lyberg Ahlander, Pasquale Bottalico

Lecture room 5 | Monday 28th May | 11:00 – 16:00

11:00 - 11:20 *Bottalico Pasquale*

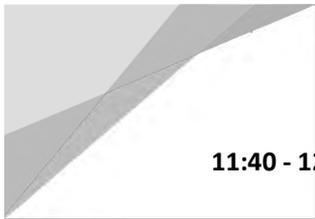
5 | S18.3-1 | HOW MUCH WOULD YOU SPEND TO EAT AT THIS RESTAURANT?

Presenter: Bottalico Pasquale

11:20 - 11:40 *Cantor-Cutiva Lady Catherine, Bottalico Pasquale, Hunter Eric*

5 | S18.3-2 | THE RELATION BETWEEN VOCAL FRY AND ROOM ACOUSTICS AMONG BILINGUAL ENGLISH-SPANISH SPEAKERS

Presenter: Cantor-Cutiva Lady Catherine



11:40 - 12:00

Hunter Eric, Rollins Michael, Leishman Timothy, Berardi Mark

5 | S18.3-3 | VOICE PRODUCTION DUE TO EXTREME REVERBERATION TIME

Presenter: Hunter Eric

12:00 - 12:20

Durup Nick, Shield Bridget, Dance Stephen, Sullivan Rory

5 | S18.3-4 | THE EFFECTS OF CLASSROOM ACOUSTICS, PARTICULARLY LOW FREQUENCY NOISE, ON THE TEACHER'S VOICE

Presenter: Shield Bridget

12:20 - 12:40

Castellana Antonella, Carullo Alessio, Astolfi Arianna, Leocata Ilaria

5 | S18.3-5 | SINGING VOICE QUALITY ASSESSMENT IN PROFESSIONAL SINGERS USING MICROPHONES AND CONTACT SENSORS

Presenter: Castellana Antonella

Lunch break

14:20 - 14:40

Whitling Susanna, Karjalainen Suvi, von Lochow Heike, Lyberg-Åhlander Viveka

5 | S18.3-6 | ON THE EFFECTS ON TEACHERS AND CHILDREN OF USING OR NOT USING SOUND-FIELD SYSTEMS IN ELEMENTARY SCHOOL CLASSROOMS

Presenter: Lyberg-Åhlander Viveka

14:40 - 15:00

Christensson Jonas

5 | S18.3-7 | SOUND REFLECTIONS THAT SUPPORT TEACHING AND LEARNING

Presenter: Christensson Jonas

15:00 - 15:20

Muellner Herbert, Benklewski Jakub, Chmelik Vojto, Huber Thomas

5 | S18.3-8 | SUBJECTIVE VOCAL EFFORT OF ELEMENTARY SCHOOL TEACHERS IN VIENNA

Presenter: Muellner Herbert

15:20 - 15:40

Szabo Portela Annika, Södersten Maria

5 | S18.3-9 | INTERRELATIONSHIP BETWEEN SUBJECTIVE AND INSTRUMENTAL VOICE AND NOISE DATA IN VOCALLY DEMANDING WORKPLACES

Presenter: Szabo Portela Annika

15:40 - 16:00

Ueno Kanako, Ise Shiro

5 | S18.3-10 | VISUALIZATION OF VOICE LEVELS FOR IMPROVING THE SOUND ENVIRONMENT IN PRESCHOOLS

Presenter: Ueno Kanako

Coffee break

Regular Session 21 - Source Identification and Localization

Chairperson: Jan Žera

Lecture room 5 | Monday 28th May | 16:40 – 18:20

16:40 - 17:00 *del Val Lara, Izquierdo Alberto, Villacorta Juan, Suárez Luis, Herráez Marta*

5 | S21-1 | ANALYSIS OF A MAXIMA POSITION ESTIMATOR ON ACOUSTIC IMAGES OF A FAN MATRIX FOR FAILURE DETECTION

Presenter: del Val Lara

17:00 - 17:20 *Di Marco Alessandro, Camussi Roberto*

5 | S21-2 | A DUAL-CHANNEL CORRELATED NOISE REDUCTION ALGORITHM BASED ON THE COHERENCE FUNCTION AND THE CONTINUOUS WAVELET TRANSFORM

Presenter: Di Marco Alessandro

17:20 - 17:40 *Gaber Mohamed, Elnady Tamer, Elsabbagh Adel*

5 | S21-3 | SOUND SOURCE LOCALIZATION IN 360 DEGREES USING A CIRCULAR MICROPHONE ARRAY

Presenter: Gaber Mohamed

17:40 - 18:00 *Singh Arun Prakash*

5 | S21-4 | DIRECTION OF ARRIVAL ESTIMATION ALGORITHM FOR RECTANGULAR ARRAYS USING FULL EIGEN SPACE

Presenter: Singh Arun Prakash

18:00 - 18:20 *Žera Jan, Miśkiewicz Andrzej, Rogala Tomira, Rościszewska Teresa, Szczepańska-Antosik Joanna, Majer Jacek*

5 | S21-5 | RECOGNITION OF ENVIRONMENTAL SOUNDS EMBEDDED IN NATURAL AUDITORY SCENES

Presenter: Žera Jan



Lecture room 6

Structured Session 1.1 - Acoustic and Elastic Metamaterials

Organizer(s): Jose Sanchez-Dehesa

Chairperson: Jose Sanchez-Dehesa

Lecture room 6 | Monday 28th May | 11:00 – 18:20

11:00 - 11:20 *Christensen Johan*

6 | S1.1-1 | PARITY-TIME SYNTHETIC PHONONIC MEDIA AND NON-HERMITIAN VALLEY TRANSPORT

Presenter: Christensen Johan

11:20 - 11:40 *Guild Matthew, Rothko Michael, Sieck Caleb, Rohde Charles, Orris Gregory*

6 | S1.1-2 | 3D PRINTED ACOUSTIC METAMATERIAL SOUND ABSORBERS USING FUNCTIONALLY-GRADED SONIC CRYSTALS

Presenter: Guild Matthew

11:40 - 12:00 *Ardito Raffaele, D'Alessandro Luca, Braghin Francesco, Corigliano Alberto*

6 | S1.1-3 | SINGLE-PHASE ENGINEERED METAMATERIALS FOR WAVE FILTERING WITH OPTIMAL PERFORMANCES

Presenter: Ardito Raffaele

12:00 - 12:20 *Bozhko Andrii, Sanchez-Dehesa Jose, Cervera Francisco, Krokhn Arkadii*

6 | S1.1-4 | REDIRECTION AND SPLITTING OF SOUND WAVES BY A PERIODIC CHAIN OF THIN PERFORATED CYLINDRICAL SHELLS

Presenter: Bozhko Andrii

12:20 - 12:40 *Gao Penglin, Sánchez-Dehesa José, Wu Linzhi*

6 | S1.1-5 | REDIRECTION OF FLEXURAL WAVES IN PERIODICALLY PERFORATED PLATES

Presenter: Sánchez-Dehesa José

Lunch break

14:20 - 14:40 *Groby Jean-Philippe, Jimenez Noe, Pagneux Vincent, Roméro-García Vicente*

6 | S1.1-6 | RAINBOW-TRAPPING ABSORBERS FOR TRANSMISSION PROBLEMS: BROADBAND AND PERFECT SOUND ABSORBING PANELS

Presenter: Groby Jean-Philippe

14:40 - 15:00 *Krokhn Arkadii, Bozhko Andrey, Walker Ezekiel, Neogi Arup*

6 | S1.1-7 | NONRECIPROCAL PROPAGATION OF SOUND IN VISCOUS FLUID WITH ASYMMETRIC SCATTERERS

Presenter: Krokhn Arkadii

15:00 - 15:20 *Cheng Yong, Geng Linlin, Dong Jianzhu, Zhou Xiaoming*

6 | S1.1-8 | ELASTIC WAVE CONTROL BY DUAL-ANISOTROPIC METASOLIDS

Presenter: Cheng Yong

15:20 - 15:40 *Herrero-Durá Iván, Picó Rubén, Sánchez-Morcillo Víctor José, Garcia-Raffi Lluís Miquel, Romero-García Vicente*

6 | S1.1-9 | LIMITS OF PERFECT SOUND ABSORPTION IN THIN ALUMINUM SQUARE PLATES

Presenter: Herrero-Durá Iván

15:40 - 16:00 *Shearer Douglas John, Dance Stephen*

6 | S1.1-10 | TOWARDS A NOVEL ACOUSTIC ABSORBER USING A MAGNETICALLY INDUCED GEOMETRIC NONLINEARITY IN AN ELASTIC MEMBRANE

Presenter: Shearer Douglas John

Coffee break

16:40 - 17:00 *Liang Bin, Cheng Jian-chun, Zhang Likun, Qiu Cheng-wei, Jiang Xue, Li Yong, Ding Yu-jiang*

6 | S1.1-11 | MANIPULATION OF ORBITAL ANGULAR MOMENTUM OF SOUND BY ACOUSTIC METAMATERIALS AND THEIR APPLICATIONS

Presenter: Liang Bin

17:00 - 17:20 *Bravo-Castillero Julian, Sabina Federico, Ramírez-Torres Ariel, Guinovart-Diaz Raul, Rodriguez-Ramos Reinaldo*

6 | S1.1-12 | GAIN AND LOSS ENHANCEMENT OF PASSIVE AND ACTIVE MATERIALS IN A SQUARE PERIODIC ARRAY OF CYLINDERS.

Presenter: Sabina Federico

17:20 - 17:40 *Liao Yunhong, Cheng Yong, Zhao Yuchen, Zhou Xiaoming*

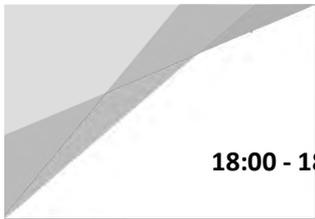
6 | S1.1-13 | ADAPTIVE METAMATERIALS FOR BROADBAND LOW-FREQUENCY SOUND ISOLATION AND ABSORPTION

Presenter: Zhou Xiaoming

17:40 - 18:00 *Lewinska Mirosława, van Dommelen Johannes, Kouznetsova Varvara, Geers Marc*

6 | S1.1-14 | METAFOAMS - MASS ENRICHED POROELASTIC MATERIAL WITH EXCEPTIONAL ATTENUATION PERFORMANCE

Presenter: Lewinska Mirosława



18:00 - 18:20 *Farooqui Maaz, Aurégan Yves, Pagneux Vincent*

6 | S1.1-15 | GUIDING ACOUSTIC WAVES OVER OBSTACLES USING LINEAR SURFACE MODES

Presenter: Farooqui Maaz

Lecture room 7

Structured Session 20.2 - Perception based models of acoustic environment

Organizers: Giovanni Brambilla, Sergio Luzzi

Chairpersons: Giovanni Brambilla, Sergio Luzzi

Lecture room 7 | Monday 28th May | 11:00 – 15:20

11:00 - 11:20 *Aletta Francesco, Van Renterghem Timothy, Botteldooren Dick*

7 | S20.2-1 | CAN ATTITUDE TOWARDS GREENERY MITIGATE ROAD TRAFFIC NOISE PERCEPTION? A CASE STUDY OF A HIGHLY-NOISE EXPOSED CYCLING PATH

Presenter: Aletta Francesco

11:20 - 11:40 *Cooper Steven*

7 | S20.2-2 | THE INAUDIBLE SOUNDSCAPE OF A WIND FARM

Presenter: Cooper Steven

11:40 - 12:00 *Bones Oliver C., Cox Trevor J., Davies William J.*

7 | S20.2-3 | DISTINCT CATEGORIZATION STRATEGIES FOR DIFFERENT TYPES OF ENVIRONMENTAL SOUNDS

Presenter: Bones Oliver C.

12:00 - 12:20 *Mossberg Frans, Cerwén Gunnar*

7 | S20.2-4 | PERCEPTION AND IMPLEMENTATION OF QUIET AREAS - SOUNDSCAPE ASSETS FOR ENVIRONMENTAL GOODWILL IN SWEDEN

Presenter: Mossberg Frans

12:20 - 12:40 *Radicchi Antonella, Henckel Dietrich*

7 | S20.2-5 | COMBINED SOUND- & LIGHTWALKS. A PERCEPTION BASED METHOD TO ANALYZE AND EVALUATE THE SONIC AND LIGHT ENVIRONMENT OF OUR CITIES AT NIGHT.

Presenter: Henckel Dietrich

Lunch break

14:20 - 14:40 *Filipan Karlo, De Coensel Bert, Verhulst Sarah, Botteldooren Dick*

7 | S20.2-6 | BIOLOGICALLY INSPIRED ASSESSMENT OF NOTICEABILITY OF SOUND EVENTS IN CONTEXT

Presenter: Filipan Karlo

14:40 - 15:00 *van Kamp Irene, Bild Edda, van den Bosch Kirsten, Derksen Thomas, Zentschnig Renate, Huijsman Michiel*

7 | S20.2-7 | PERCEIVED LOCAL ENVIRONMENTAL ACOUSTIC QUALITY: BENCHMARKING METHODS OF MEASUREMENT AND ANALYSIS

Presenter: van Kamp Irene

15:00 - 15:20 *Jordan Pamela*

7 | S20.2-8 | TRACING PAST PERCEPTIONS – SOUNDSCAPE AS A DISCOVERY TOOL ON MT. LYKAION

Presenter: Jordan Pamela

Coffee break

Structured Session 16.1 - Rail Traffic Noise and Vibration

Organizers: Konstantinos Vogiatzis, George Kouroussis

Chairpersons: Konstantinos Vogiatzis, George Kouroussis

Lecture room 7 | Monday 28th May | 16:40-18:40

16:40 - 17:00 *ZAFIROPOULOU VASSILIKI, VOGIATZIS KONSTANTINOS, MOUZAKIS HARALAMPOS*

7 | S16.1-1 | A METHODOLOGY FOR ASSESSING GROUND BORNE NOISE AND VIBRATION TRANSFER FUNCTIONS “TUNNEL WALL-SOIL SURFACE” FOR METROPOLITAN RAIL NETWORKS USING THE TBM MUCK TRAIN AS A LINEAR SOURCE: MEASUREMENTS CAMPAIGN IN THE EXTENSION OF ATHENS METRO LIN

Presenter: ZAFIROPOULOU VASSILIKI

17:00 - 17:20 *Godinho Luís, Albino Carlos, Alves-Costa Pedro, Amado-Mendes Paulo, Soares Jr. Delfim*

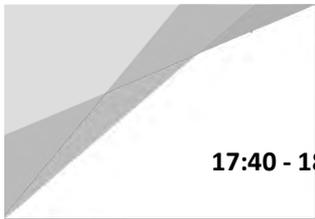
7 | S16.1-2 | NUMERICAL STUDY OF A BURIED PERIODIC DEVICE FOR VIBRATION PROTECTION

Presenter: Amado-Mendes Paulo

17:20 - 17:40 *Byrne Stephen*

7 | S16.1-3 | AN ASSESSMENT OF THE EFFECTIVENESS OF NOISE REDUCTION SYSTEMS ON DUBLIN’S LIGHT RAIL SYSTEM (LUAS)

Presenter: Byrne Stephen



17:40 - 18:00 *Eric Augis, Pierre Ropars, Xavier Vuylsteke*

7 | S16.1-4 | UNDERGROUND VIBRATIONS, IMPACT OF PROXIMITY BETWEEN FOUNDATIONS AND TUNNEL

Presenter: Eric Augis

18:00 - 18:20 *Smith Michael, Ögren Mikael, Ageborg Morsing Julia, Jerson Tomas, Persson Wayne Kerstin*

7 | S16.1-5 | THE EFFECTS ON SLEEP OF GROUND BORNE NOISE FROM TRAINS IN TUNNELS

Presenter: Smith Michael

18:20 - 18:40 *Huth Christine, Eberlei Geske, Liepert Manfred, Kempinger Thomas*

7 | S16.1-6 | PSYCHOACOUSTIC STUDY ON THE ACCEPTANCE OF TRAIN PASSINGS AFTER RAIL GRINDING

Presenter: Huth Christine

Lecture room 8

Structured Session 17.1 - Façade Insulation and protection against outdoor noise

Organizers: Krister Larsson, Anders Homb

Chairpersons: Krister Larsson, Anders Homb

Lecture room 8 | Monday 28th May | 11:00 – 15:20

11:00 - 11:20 *Larsson Krister, Öberg Fredrik*

8 | S17.1-1 | INFLUENCE OF FILLERS AND SEALANTS ON THE FAÇADE SOUND INSULATION

Presenter: Larsson Krister

11:20 - 11:40 *Homb Anders*

8 | S17.1-2 | ASSESSMENT OF SOUND INSULATION OF SEALING SOLUTIONS, WINDOW SLITS AND OPENINGS

Presenter: Homb Anders

11:40 - 12:00 *Chmelík Vojtech, Rychtáriková Monika, Muellner Herbert, Jambrošić Kristian, Zelem Lukáš, Benklewski Jakub, Glorieux Christ, Exel Rudolph*

8 | S17.1-3 | FREQUENCY SPECTRA DISCRIMINATION OF BROADBAND STIMULI

Presenter: Chmelík Vojtech

12:00 - 12:20 *De Geetere Lieven, Dijckmans Arne, Ingelaere Bart*

8 | S17.1-4 | ACOUSTICAL PERFORMANCE OF CONNECTIONS BETWEEN WINDOWS AND TIMBER FRAME FAÇADE ELEMENTS

Presenter: De Geetere Lieven

12:20 - 12:40 *Bielefeld Hans-Walter , DeGanyar Tejav*

8 | S17.1-5 | ACOUSTICAL PERFORMANCE OF ALUMINUM FRAMED FACADE SYSTEMS

Presenter: Bielefeld Hans-Walter

Lunch break

14:20 - 14:40 *Zaharia Marta Cristina, Alexe Ioana Mihaela, Ene Ciprian , Iordache Vlad, Petcu Cristian*

8 | S17.1-6 | INFLUENCE OF THE OPENING DEGREE OF THE WINDOWS ON THEIR ACOUSTIC INSULATION

Presenter: Zaharia Marta Cristina

14:40 - 15:00 *Urbán Daniel, Zařko Peter, Roozen Nicolaas Bernardus, Muellner Herbert, Glorieux Christ*

8 | S17.1-7 | INFLUENCE OF THE DYNAMIC STIFFNESS OF EXTERNAL THERMAL INSULATION ON THE SOUND INSULATION OF WALLS

Presenter: Urbán Daniel

15:00 - 15:20 *Glé Philippe, Degrave-Lemeurs Matthias, Hellouin de Menibus Arthur*

8 | S17.1-8 | ACOUSTICAL PROPERTIES OF HEMP CONCRETES FOR BUILDINGS THERMAL INSULATION

Presenter: Glé Philippe

Structured Session 17.2 - Low frequency sound insulation

Organizers: Catherine Guigou Carter, Berndt Zeitler

Chairpersons: Catherine Guigou Carter, Berndt Zeitler

Lecture room 8 | Monday 28th May | 15:40 – 18:40

15:40 - 16:00 *Guigou Carter Catherine, Ducruet Pascal, Bailhache Simon, Yang Hong-Seok*

8 | S17.2-1 | ACOUSTIC MEASUREMENTS ON WATER WASTE INSTALLATIONS AND SOLUTIONS TO LIMIT RESIDENTS ANNOYANCE

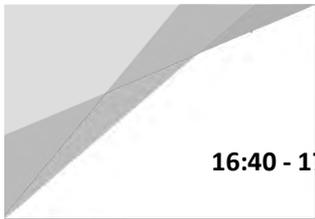
Presenter: Guigou Carter Catherine

16:00 - 16:20 *Buchegger Blasius, Ferk Heinz, Schanz Martin*

8 | S17.2-2 | MODAL ANALYSIS AND FLANKING SOUND INSULATION IN CONNECTED PANELS OF CROSS-LAMINATED-TIMBER AT LOW FREQUENCIES

Presenter: Buchegger Blasius

Coffee break



16:40 - 17:00

Homb Anders, Conta Simone

8 | S17.2-3 | SURVEY ON LOW FREQUENCY IMPACT SOUND INSULATION OF TIMBER HOLLOW BOX FLOORS

Presenter: Homb Anders

17:00 - 17:20

Keränen Jukka, Hakala Jarkko, Hongisto Valtteri

8 | S17.2-4 | FACADE SOUND INSULATION OF RESIDENTIAL HOUSES WITHIN 5 - 5000 HZ

Presenter: Keränen Jukka

17:20 - 17:40

Larsson Krister, Colebring Andreas, Glebe Dag

8 | S17.2-5 | MEASUREMENT AND PREDICTION OF THE ACOUSTIC PERFORMANCE OF A CLT FLOOR IN AN EXTENDED FREQUENCY RANGE

Presenter: Larsson Krister

17:40 - 18:00

Morandi Federica, D'Orazio Dario, Barbaresi Luca

8 | S17.2-6 | DAMPING OF CLT ELEMENTS IN THE LOW FREQUENCY REGIME

Presenter: Morandi Federica

18:00 - 18:20

Giuseppe Rosi, Pierre Ropars, Nicolas Auffray

8 | S17.2-7 | NEW MITIGATION SOLUTION BY WAVES DEVIATION, NUMERICAL EXPERIMENT

Presenter: Pierre Ropars

18:20 - 18:40

Schneider Martin, Zeitler Berndt, Ruff Andreas

8 | S17.2-8 | SOUND INSULATION OF DOUBLE MASONRY EXTERIOR WALLS

Presenter: Schneider Martin

Lecture room 9

Regular Session 11 – Measurement techniques

Chairperson: Spyros Brezas

Lecture room 9 | Monday 28th May | 11:00 – 12:40

11:00 - 11:20

Bienert Joerg

9 | S11-1 | DETERMINATION OF THE WINDNOISE CONTRIBUTION FROM VEHICLE NOISE MEASUREMENTS ON ROADS

Presenter: Bienert Joerg

11:20 - 11:40

Brezas Spyros, Wittstock Volker

9 | S11-2 | SOUND FIELD DECOMPOSITION OF SOUND SOURCES USED IN SOUND POWER MEASUREMENTS

Presenter: Brezas Spyros

11:40 - 12:00 *Karel Jan, Monhart František*

9 | S11-3 | NOISE MEASUREMENT DIAGNOSTICS FOR LARGE ELECTRIC MACHINES

Presenter: Karel Jan

12:00 - 12:20 *Papadakis Nikolaos M., Serras Anargyros, Stavroulakis Georgios E.*

9 | S11-4 | MIMICKING THE SOUND FIELD OF A DODECAHEDRAL LOUDSPEAKER BY A COMMON DIRECTIONAL LOUDSPEAKER FOR REVERBERATION TIME MEASUREMENTS

Presenter: Papadakis Nikolaos M.

12:20 - 12:40 *Rajeev Kumar B R, Hegde Sumanth S, Iyer Ganesh R, Radhakrishnan Guruthangaraj*

9 | S11-5 | AN FFT-IFFT COMBINATION BASED TRANSFER FUNCTION APPROACH TO IMPROVE EFFECTIVENESS OF VEHICLE INCAB SOUND QUALITY ASSESSMENT

Presenter: Iyer Ganesh Ramakrishnan

Lunch break

Structured Session 11.4 - Noise monitoring

Organizer: Henk Wolfert

Chairperson: Henk Wolfert

Lecture room 9 | Monday 28th May | 14:20 – 18:00

14:20 - 14:40 *Socoró Joan Claudi, Alsina-Pagès Rosa Ma, Alías Francesc, Orga Ferran*

9 | S11.4-1 | ADAPTING AN ANOMALOUS NOISE EVENTS DETECTOR FOR REAL-LIFE OPERATION IN THE ROME SUBURBAN PILOT AREA OF THE DYNAMAP'S PROJECT

Presenter: Alsina-Pagès Rosa Ma

14:40 - 15:00 *Camps Farrés Júlia, Casado Novas Javier*

9 | S11.4-2 | ISSUES AND CHALLENGES TO IMPROVE THE BARCELONA NOISE MONITORING NETWORK

Presenter: Camps Farrés Júlia

15:00 - 15:20 *Gallo Enrico, Ciarlo Elena, Santa Manuela, Sposato Emanuela, Fogola Jacopo, Grasso Daniele, Masera Stefano, Vincent Bruno, Halbwachs Yann*

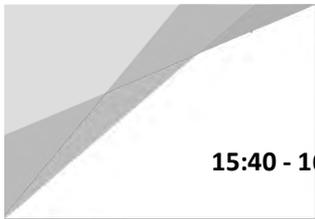
9 | S11.4-3 | ANALYSIS OF LEISURE NOISE LEVELS AND ASSESSMENT OF POLICIES IMPACT IN SAN SALVARIO DISTRICT, TORINO (ITALY), BY LOW-COST IOT NOISE MONITORING NETWORK

Presenter: Gallo Enrico

15:20 - 15:40 *Zambon Giovanni, Angelini Fabio, Roman H. Eduardo, Aggio Alessandro Flavio, Cambiaghi Marco, Benocci Roberto*

9 | S11.4-4 | INITIAL VERIFICATION MEASUREMENTS OF DYNAMAP PREDICTIVE MODEL

Presenter: Zambon Giovanni



15:40 - 16:00

Prezelj Jurij

9 | S11.4-5 | DIRECTIVITY MEASUREMENTS OF ENVIRONMENTAL NOISE IMMISSION

Presenter: Prezelj Jurij

Coffee break

16:40 - 17:00

Manvell Douglas, Andersen Ken

9 | S11.4-6 | DEVELOPMENTS IN SPECIFIC NOISE DETERMINATION IN CONTINUOUS UNATTENDED MONITORING SYSTEMS

Presenter: Andersen Ken

17:00 - 17:20

MIETLICKI Christophe, MIETLICKI Fanny

9 | S11.4-7 | MEDUSA: A NEW APPROACH FOR NOISE MANAGEMENT AND CONTROL IN URBAN ENVIRONMENT

Presenter: MIETLICKI Christophe

17:20 - 17:40

Nencini Luca, Bellucci Patrizia, Zambon Giovanni, Bisceglie Alessandro, Benocci Roberto

9 | S11.4-8 | EVALUATION OF THE INSTRUMENTAL UNCERTAINTY OF NOISE MONITORING DEVICES DEVELOPED WITHIN THE LIFE DYNAMAP PROJECT

Presenter: Nencini Luca

17:40 - 18:00

Cerniglia Andrea, Di Feo Gelsomina

9 | S11.4-9 | SOME RESULTS ON MOTORWAY CONTINUOUS NOISE MONITORING OVER SEVERAL YEARS

Presenter: Cerniglia Andrea

Lecture room 10

Structured Session 4.1 – Airport Noise

Organizer: Nico van Oosten

Chairperson: Nico van Oosten

Lecture room 10 | Monday 28th May | 11:00 – 16:00

11:00 - 11:20

Collin Dominique

10 | S4.1-1 | RESEARCH NETWORKS: SUPPORTING AVIATION NOISE REDUCTION

Presenter: Collin Dominique

11:20 - 11:40 *Houtave Peter, Clairbois Jean-Pierre*

10 | S4.1-2 | SINGLE AIRCRAFT PASS-BY: MODELLING RELEVANT NOISE AT GROUND

Presenter: Houtave Peter

11:40 - 12:00 *Heyes Graeme, Hooper Paul, Dimitriu Delia*

10 | S4.1-3 | PAN-EUROPEAN REVIEW OF AVIATION NOISE IMPACT MITIGATION STRATEGIES

Presenter: Heyes Graeme

12:00 - 12:20 *Minard Antoine, Mellot Bertrand, Sciabica Jean-François*

10 | S4.1-4 | AIRCRAFT NOISE UNPLEASANTNESS: IMPACT OF DIFFERENT SIGNAL PORTIONS ON OVERALL ASSESSMENT

Presenter: Sciabica Jean-François

12:20 - 12:40 *Dimitriu Delia, Dinu Georgeta, Vesel Claudia, Toma Adina, Radulescu Dan, Deaconu Marius, Runcan Petru Stefan, Tofan Dan, Burtea Elena Narcisa*

10 | S4.1-5 | AN INVESTIGATION OF THE ROMANIAN AVIATION NOISE POLICY AND ITS IMPLEMENTATION: WHERE IS ROMANIA PLACED ON THE EUROPEAN NOISE MITIGATION MAP?

Presenter: Radulescu Dan

Lunch break

14:20 - 14:40 *Synodinos Athanasios, Self Rod, Torija Antonio*

10 | S4.1-6 | EVALUATION OF ENVIRONMENTALLY OPTIMAL DESCENT AND TAKE-OFF SLOPES FOR EXISTING AND NOVEL AIRCRAFT

Presenter: Synodinos Athanasios

14:40 - 15:00 *Tengzelius Ulf, Grönstedt Tomas, Bahmani Fatemeh, Karasalo Ilkka*

10 | S4.1-7 | SAFT –SIMULATION OF ATMOSPHERE AND AIR TRAFFIC FOR A QUIETER ENVIRONMENT

Presenter: Tengzelius Ulf

15:00 - 15:20 *Lugten Martijn*

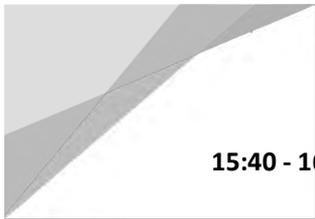
10 | S4.1-8 | EFFECTS OF BUILDING GEOMETRY AND MATERIALIZATION TO REDUCE AIRCRAFT NOISE EXPOSURE IN URBAN AREAS

Presenter: Lugten Martijn

15:20 - 15:40 *Kamenický Milan, Lumnitzer Ervin, Goga-Bodnárová Alexandra*

10 | S4.1-9 | DETERMINING NOISE POLLUTION IN THE VICINITY OF AN AIRPORT WITH HELICOPTER OPERATIONS

Presenter: Kamenický Milan



15:40 - 16:00 *Lee Chan , Kil Hyun Gwon*

10 | S4.1-10 | A NEW THROUGH-FLOW ANALYSIS METHOD OF AXIAL FLOW FAN WITH NOISE MODELS

Presenter: Lee Chan

Coffee break

Structured Session 19.2 – Outdoor sound propagation

Organizer: Timothy Van Renterghem

Chairperson: Timothy Van Renterghem

Lecture room 10 | Monday 28th May | 16:40 – 17:40

16:40 - 17:00 *Van Renterghem Timothy, Meeussen Camille , Hiraguri Yasuhiro , Dekoninck Luc, Aletta Francesco, Botteldooren Dick*

10 | S19.2-1 | VALIDATING SOUND PROPAGATION PREDICTIONS WITH INCREASING COMPLEXITY NEAR MULTI-LANE ROADS

Presenter: Van Renterghem Timothy

17:00 - 17:20 *Cosnefroy Matthias, Cheinet Sylvain, Ehrhardt Loïc, Dagallier Adrien, Dragna Didier, Juvé Daniel*

10 | S19.2-2 | IMPULSE SOUND PROPAGATION IN OPEN ENVIRONMENTS: TIME-DOMAIN SIMULATIONS VERSUS MEASUREMENTS

Presenter: Cosnefroy Matthias

17:20 - 17:40 *Alexander Lee*

10 | S19.2-3 | STUDY OF A NEW PROPAGATION MODEL IN URBAN ACOUSTICS EXEMPLIFIED THROUGH A COURTYARD ENVIRONMENT

Presenter: Alexander Lee

Regular Session 19 – Sound Propagation

Chairperson: Timothy Van Renterghem

Lecture room 10 | Monday 28th May | 17:40 – 19:00

17:40 - 18:00 *Caviedes-Nozal Diego, Brunskog Jonas*

10 | S19-1 | PARAMETER OPTIMIZATION OF FORWARD SOUND PROPAGATION MODELS USING BAYESIAN INFERENCE FOR SOUND FIELD CONTROL PURPOSES.

Presenter: Caviedes-Nozal Diego

18:00 - 18:20 *Yilmaz Asli U., Hamilton Mark F.*

10 | S19-2 | TRANSIENT SOLUTIONS FOR DIRECTIONAL RESPONSES OF PARABOLIC TRANSMITTERS AND RECEIVERS

Presenter: Hamilton Mark F.

18:20 - 18:40 *Raveau Maria Paz*

10 | S19-3 | MEASURING SOUND EXTINCTION OF BUBBLE CLOUDS IN A WATER TANK

Presenter: Raveau Maria Paz

18:40 - 19:00 *Yamamoto Katsuya, Asahina Mineyuki, Suzuki Kazuhiro*

10 | S19-4 | A NEW ESTIMATION METHOD FOR ACOUSTIC TRANSMISSION USING A SMALL LOUDSPEAKER AND AN ACOUSTIC PARTICLE VELOCITY SENSOR

Presenter: Yamamoto Katsuya

Lecture room 11

Structured Session 25.1 – Life projects on road traffic noise-LIFE NEREIDE first results

Organizer: Gaetano Licitra

Chairperson: Gaetano Licitra

Lecture room 11 | Monday 28th May | 11:00 – 12:20

11:00 - 11:20 *Licitra Gaetano, Ascari Elena, Cerchiai Mauro, Chiari Claudia, Giannechini Sonia, Simonetti Duccio*

11 | S25.1-1 | ANTE OPERAM NOISE MONITORING WITHIN LIFE NEREIDE: METHODS AND RESULTS

Presenter: Ascari Elena

11:20 - 11:40 *Losa Massimo, Leandri Pietro, Rocchio Patrizia*

11 | S25.1-2 | NEW LOW NOISE PAVEMENT SURFACES BY THE USE OF CRUMB RUBBER

Presenter: Losa Massimo

11:40 - 12:00 *Lo Castro Fabio, Brambila Giovanni, Iarossi Sergio, Fredianelli Luca*

11 | S25.1-3 | THE LIFE NEREIDE PROJECT: PSYCHOACOUSTIC PARAMETERS AND ANNOYANCE OF ROAD TRAFFIC NOISE IN AN URBAN AREA

Presenter: Lo Castro Fabio

12:00 - 12:20 *Morcillo Miguel Angel*

11 | S25.1-4 | LIFE SOUNDLESS: NEW GENERATION OF ECO-FRIENDLY ASPHALT WITH RECYCLED MATERIALS.

Presenter: Morcillo Miguel Angel

Lunch break



Structured Session 25.3 – Noise from bridges and bridge joints

Organizers: Willem-Jan van Vliet, Erik de Graaff

Chairpersons: Willem-Jan van Vliet, Erik de Graaff

Lecture room 11 | Monday 28th May | 14:20 – 15:40

14:20 - 14:40 *de Graaff Erik, Tollenaar Christiaan*

11 | S25.3-1 | NOISE NUISANCE CAUSED BY MOVABLE STEEL BRIDGES

Presenter: de Graaff Erik

14:40 - 15:00 *Dittrich Michael, van Vliet Willem-Jan*

11 | S25.3-2 | ACOUSTIC CHARACTERISTICS AND NOISE CONTROL MEASURES FOR STEEL ROAD BRIDGES

Presenter: Dittrich Michael

15:00 - 15:20 *Marcocci Sébastien*

11 | S25.3-3 | CHARACTERIZATION OF NOISE EXPANSION JOINT, ANALYSIS OF DIFFERENT METHODS AND DISCUSSIONS ABOUT THEM

Presenter: Marcocci Sébastien

15:20 - 15:40 *Pedersen Torben Holm, Finne Per, Hansen Morten Bording*

11 | S25.3-4 | PROMINENCE OF IMPULSES FROM ROAD BRIDGE EXPANSION JOINTS

Presenter: Finne Per

Poster Session

14:20 - 18:00 *Antoniadou Smaro , Papadakis Nikolaos M., Stavroulakis Georgios E.*

0 | S11-1 | MEASURING ACOUSTIC PARAMETERS WITH ESS AND MLS METHODS: EFFECT OF ARTIFICIALLY VARYING BACKGROUND NOISE

Presenter: Antoniadou Smaro

14:20 - 18:00 *Zuzjak Ladislav, Turecek Oldrich*

0 | S11-2 | ADVANCED METHOD FOR MEASUREMENT OF PARAMETERS OF MULTI-CHANNEL SOUND SYSTEMS

Presenter: Turecek Oldrich

14:20 - 18:00 *Honzík Petr, Vondráček Stanislav, Abramova Karina, Kolář Jakub, Brynda Petr, Jirovský Václav*

0 | S11-3 | LOW-COST SOUND PRESSURE LEVEL SENSOR FOR NOISE MONITORING WIRELESS SENSOR NETWORKS

Presenter: Abramova Karina

14:20 - 18:00 *Maclachlan Laura, Ögren Mikael, van Kempen Elise, Hussain Laith, Persson Waye Kerstin*

0 | S16-1 | TOO CLOSE FOR COMFORT? DISTANCE FROM RAILWAY AND VIBRATION PERCEPTION AND ANNOYANCE.

Presenter: Persson Waye Kerstin

14:20 - 18:00 *Bednarik Michal, Cervenka Milan*

0 | S19-1 | PROPAGATION ELASTIC WAVES THROUGH INHOMOGENEOUS MEDIA

Presenter: Bednarik Michal



Tuesday 29th May, 2018

Plenary Lecture

Lecture room 1 | Tuesday 29th May | 11:00 – 11:40

11:00 - 11:40 Gaetano Licitra

1 | P-2 | OUT OF THE LABYRINTH: LIGHTS AND SHADOWS OF NOISE MAPPING IN CNOSSOS ERA

Lecture room 1

Structured Session 18.1 - Effect of room acoustics and noise on speech intelligibility and task performance in schools

Organizers: Nicola Prodi, Arianna Astolfi

Chairpersons: Nicola Prodi, Arianna Astolfi

Lecture room 1 | Tuesday 29th May | 09:00 – 18:00

09:00 - 09:20 *Astolfi Arianna, Puglisi Giuseppina Emma, Shtrepi Louena, Minelli Greta, Prato Andrea, Sacco Tiziana*

1 | S18.1-1 | EFFECTS OF CLASSROOM ACOUSTICS ON POTENTIAL STRUGGLING FIRST-GRADE READERS

Presenter: Astolfi Arianna

09:20 - 09:40 *Bovo Roberto, Lovo Elisa, Montino Silvia, Gheller Flavia*

1 | S18.1-2 | SPEECH PERCEPTION IN NOISE BY YOUNG SEQUENTIAL BILINGUAL CHILDREN

Presenter: Bovo Roberto

09:40 - 10:00 *Braat-Eggen Ella, Keus van de Poll Marijke, Hornikx Maarten, Kohlrausch Armin*

1 | S18.1-3 | OPEN-PLAN STUDY ENVIRONMENTS: EFFECTS OF BACKGROUND SPEECH AND REVERBERATION TIME ON A COLLABORATION TASK.

Presenter: Braat-Eggen Ella

10:00 - 10:20 *Campbell Colin, Brokmann Holger, Vugts Jeroen, van Oorschot-Slaat Esther*

1 | S18.1-4 | ACOUSTIC IMPACT ON EFFECTIVE TEACHING AND LEARNING ACTIVITIES IN OPEN LEARNING SPACES

Presenter: Campbell Colin

10:20 - 10:40 *Choi YoungJi*

1 | S18.1-5 | SPEECH AND NOISE MEASUREMENTS IN ACTIVE UNIVERSITY CLASSROOMS

Presenter: Choi YoungJi

Coffee break

12:00 - 12:20 *Christensson Jonas*

1 | S18.1-6 | GOOD ACOUSTICS FOR TEACHING AND LEARNING

Presenter: Christensson Jonas

12:20 - 12:40 *Dockrell Julie, Connolly Daniel, Mydlarz Charles, Cox Trevor, Conetta Robert, Shield Bridget*

1 | S18.1-7 | CAPTURING THE IMPACTS OF POOR CLASSROOM ACOUSTIC IN HIGH SCHOOL PUPILS

Presenter: Shield Bridget

12:40 - 13:00 *van Mil Imke Wies, Brière Baltazar, Jeong Cheol-Ho, Larsen Olga Popovic, Iversen Anne, Pind Finnur*

1 | S18.1-8 | NOISE MEASUREMENTS DURING FOCUS-BASED CLASSROOM ACTIVITIES AS AN INDICATION OF STUDENT'S LEARNING WITH AMBIENT AND FOCUSED ARTIFICIAL LIGHT DISTRIBUTION

Presenter: Jeong Cheol-Ho

Lunch break

14:20 - 14:40 *Kawai Keiji, Otaku Momoko*

1 | S18.1-9 | EXPERIMENTAL INVESTIGATION OF EFFECT OF BACKGROUND NOISE AND REVERBERATION ON LISTENING COMPREHENSION OF PRE-SCHOOL CHILDREN

Presenter: Kawai Keiji

14:40 - 15:00 *Noguchi Saki, Tominaga Takuma, Ueno Kanako, Kawai Keiji, Yoshida Arata, Katakawa Tomoko*

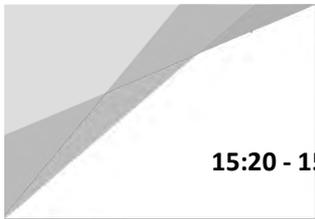
1 | S18.1-10 | EFFECT OF SOUND ABSORPTION IN A CLASSROOM ON CLASS ACTIVITIES: A FIELD EXPERIMENT ON THE INSTALLATION OF SOUND-ABSORBING MATERIALS IN KINDERGARTEN

Presenter: Noguchi Saki

15:00 - 15:20 *Oberkalmsteiner Richard, Canale Giuseppe, Verdi Luca*

1 | S18.1-11 | ROOM ACOUSTICS IN SCHOOLS IN SOUTH TYROL - ITALY

Presenter: Oberkalmsteiner Richard



15:20 - 15:40

Prato Andrea, Puglisi Giuseppina, Astolfi Arianna, Sacco Tiziana

1 | S18.1-12 | DESIGN OF THE RHYTHMIC TASKS OF A COMPUTER-ASSISTED PHONOLOGICAL TRAINING TO IMPROVE READING ABILITIES IN FIRST-GRADERS

Presenter: Prato Andrea

15:40 - 16:00

Tiesler Gerhart

1 | S18.1-13 | COMMUNICATION BEHAVIOUR AND WORKLOAD OF STUDENTS AND TEACHERS IN HIGHLY ABSORBENT CLASSROOMS

Presenter: Tiesler Gerhart

Coffee break

16:40 - 17:00

Puglisi Giuseppina Emma, Astolfi Arianna, Warzybok Anna, Sellami Fatma, Giustolisi Elena, Montuschi Carla, Zanetti Diego, Di Bernardino Federica, Albera Roberto, Kollmeier Birger, Calleri Cristina

1 | S18.1-14 | AN EFFECTIVE TEST FOR THE ASSESSMENT OF SPEECH INTELLIGIBILITY IN NOISE WITH CHILDREN

Presenter: Calleri Cristina

17:00 - 17:20

Ueno Kanako, Watanabe Shinnosuke, Noguchi Saki

1 | S18.1-15 | A FIELD STUDY ON THE ACOUSTIC ENVIRONMENT OF SPECIAL NEEDS EDUCATION CLASSROOMS

Presenter: Ueno Kanako

17:20 - 17:40

Visentin Chiara, Prodi Nicola, Peretti Alessandro, Pierobon Alberta, Griguolo Jacopo, Marcuzzo Giorgio, Bartolucci Giovanni Battista

1 | S18.1-16 | SPEECH RECEPTION IN KINDERGARTEN AND PRIMARY SCHOOL CLASSROOMS: EFFECTS OF AGE AND MOTHER TONGUE

Presenter: Prodi Nicola

17:40 - 18:00

Visentin Chiara, Prodi Nicola, Cappelletti Francesca, Gasparella Andrea, Torresin Simone

1 | S18.1-17 | ON THE ACOUSTICAL DESIGN OF UNIVERSITY CLASSROOMS: EFFECTS OF ROOM ACOUSTICS ON BEHAVIORAL AND SUBJECTIVE INDICES OF LISTENING EFFORT

Presenter: Visentin Chiara

Lecture room 2

Structured Session 2.1 - Aeroacoustics

Organizer: Stefan Becker

Chairperson: Stefan Becker

Lecture room 2 | Tuesday 29th May | 08:40 – 13:00

08:40 - 09:00 *Degirmenci Niyazi Cem, Jansson Johan, NGUYEN Dang Van, Hoffman Johan , Guasch i Fortuny Oriol , Ternström Sten*

2 | S2.1-1 | A UNIFIED NUMERICAL SIMULATION FRAMEWORK FOR PHONATION

Presenter: Degirmenci Niyazi Cem

09:00 - 09:20 *Krömer Florian, Becker Stefan*

2 | S2.1-2 | EXPERIMENTAL INVESTIGATION OF THE OFF-DESIGN SOUND EMISSION OF LOW-PRESSURE AXIAL FANS WITH DIFFERENT FAN BLADE SKEW

Presenter: Krömer Florian

09:20 - 09:40 *Renz Andreas, Becker Stefan*

2 | S2.1-3 | EXPERIMENTAL INVESTIGATION OF THE AEROACOUSTICS OF CROSS FLOW FRICTION VENTILATORS

Presenter: Renz Andreas

09:40 - 10:00 *Bampanis Georgios, Roger Michel*

2 | S2.1-4 | THREE-DIMENSIONAL EFFECTS IN THE REDUCTION OF TURBULENCE-IMPINGEMENT NOISE OF AEROFOILS BY WAVY LEADING EDGES

Presenter: Bampanis Georgios

10:00 - 10:20 *Moschou Marianthi, Assier Raphael , Parnell William*

2 | S2.1-5 | UNDERSTANDING THE NOISE GENERATED BY A JET ENGINE: A STUDY OF THE 3D DIFFRACTION BY A QUARTER-PLANE

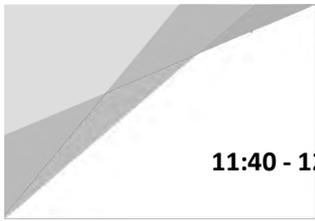
Presenter: Moschou Marianthi

10:20 - 10:40 *Legendre Cesar , DeBrye Benjamin , Detandt Yves , Lielens Gregory , Van den Nieuwenhof Benoit*

2 | S2.1-6 | ON THE EFFECTS OF VORTICITY ON THE ACOUSTIC FIELD THROUGH A SCALAR OPERATOR BASED ON TOTAL ENTHALPY TERMS

Presenter: Legendre Cesar

Coffee break



11:40 - 12:00

Vandemaele Simon, Denayer Hervé, Tournadre Jonathan, De Roeck Wim, Desmet Wim

2 | S2.1-7 | FLOW ACOUSTIC MODELING OF A SLIT RESONATOR USING LINEARIZED NAVIER-STOKES EQUATIONS

Presenter: Vandemaele Simon

12:00 - 12:20

Tournoy Dirk

2 | S2.1-8 | FULL SCALE EXPERIMENTAL MODEL INVESTIGATION IN AN ANECHOIC CHAMBER OF THE GENERATION OF AEOLIAN TONES IN AERODYNAMIC SOUND BY AIRFLOW AROUND GLASS FINS MOUNTED ON THE FAÇADE OF THE NEW HEADQUARTERS OF THE INTERUNIVERSITY MICRO ELECTRONICS CEN

Presenter: Tournoy Dirk

12:20 - 12:40

Paduano Dr.Cristina , Okolo Dr.Patrick

2 | S2.1-9 | AEROACOUSTIC RESONANCE OF A TUBE ARRAY IN A DUCTED FLOW AT DIFFERENT REYNOLDS NUMBER AND PITCH RATIO

Presenter: Paduano Dr.Cristina

12:40 - 13:00

Martelet Yann, Bailly Christophe

2 | S2.1-10 | PREDICTION OF FINE SCALE JET MIXING NOISE REFRACTION EFFECTS USING A TWO-STEP PROPAGATION TECHNIQUE

Presenter: Martelet Yann

Lunch break

Structured Session 4.2 - Aircraft/Helicopter Noise

Organizer: Nico van Oosten

Chairperson: Nico van Oosten

Lecture room 2 | Tuesday 29th May | 14:20 – 18:40

14:20 - 14:40

van Oosten Nico, Meliveo Luis

2 | S4.2-1 | THE NEW EU HELICOPTER NOISE MODEL NORAH

Presenter: van Oosten Nico

14:40 - 15:00

Dance Stephen, Gomez-Agustina Luis

2 | S4.2-2 | AN INVESTIGATION OF THE NOISE FROM LONDON HELIPORT AND THE EFFECT ON THE LOCAL RESIDENTS

Presenter: Dance Stephen

15:00 - 15:20 *Okolo Dr.Patrick , Paduano Dr.Cristina , Bennett Prof.Gareth*
2 | S4.2-3 | AN IMPROVED NOISE REDUCTION MODELLING APPROACH FOR WOVEN WIRE MESH SCREENS APPLIED TO AIRCRAFT LANDING GEARS
Presenter: Okolo Dr.Patrick

15:20 - 15:40 *Grigat Ernst*
2 | S4.2-4 | SOUND PROPAGATION AND IMMISSION MODEL OF A NOISE FOOTPRINT CALCULATION PROGRAM FOR HIGH PERFORMANCE MILITARY AIRCRAFT
Presenter: Grigat Ernst

15:40 - 16:00 *Sassanis Vasileios, Afsar Mohammed, Sescu Adrian*
2 | S4.2-5 | NOISE PREDICTION OF A HIGH ASPECT RATIO JET INTERACTING WITH AN EMBEDDED SURFACE USING CFD MEAN FLOW WITHIN A RAPID-DISTORTION THEORY FRAMEWORK
Presenter: Sassanis Vasileios

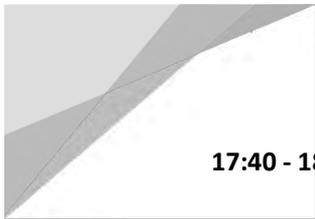
16:00 - 16:20 *Sassanis Vasileios, Sescu Adrian, Collins Eric, Luke Edward , Harris Robert*
2 | S4.2-6 | JET NOISE PREDICTIONS IN COMPLEX ENVIRONMENTS USING A NOVEL LES-NONLINEAR EULER APPROACH
Presenter: Sassanis Vasileios

Coffee break

16:40 - 17:00 *Schwab Olivier, Zellmann Christoph, Wunderli Jean Marc*
2 | S4.2-7 | ESTIMATION OF ENGINE ROTATIONAL SPEED FROM RADAR DATA FOR SINGLE FLIGHT AIRCRAFT NOISE SIMULATIONS
Presenter: Schwab Olivier

17:00 - 17:20 *Zellmann Christoph, Jäger David, Schlatter Felix*
2 | S4.2-8 | MODEL ADJUSTMENT AND VALIDATION TO ACCOUNT FOR THE AIRFLOW DEFLECTOR RETROFIT OF THE A320 FAMILY
Presenter: Zellmann Christoph

17:20 - 17:40 *Cerniglia Andrea , Di Feo Gelsomina , Marzi Alessandro, Elia Lorenzo , Vece Michele*
2 | S4.2-9 | SOME EXPERIENCES OF AUTOGENERATED NOISE ABOARD SMALL RONE
Presenter: Cerniglia Andrea



17:40 - 18:00

Vieira Ana, Malgoezar Anwar, Snellen Mirjam, G. Simons Dick

2 | S4.2-10 | EXPERIMENTAL STUDY OF SHIELDING OF PROPELLER NOISE BY A WING AND COMPARISON WITH MODEL PREDICTIONS

Presenter: Vieira Ana

18:00 - 18:20

Taghipour Armin, Pieren Reto, Schlatter Felix, Schäffer Beat

2 | S4.2-11 | ANNOYANCE REACTIONS TO NOISE OF HELICOPTERS AND PROPELLER-DRIVEN AIRCRAFT

Presenter: Taghipour Armin

18:20 - 18:40

Nigsch Berno

2 | S4.2-12 | AN AUTONOMOUS ACOUSTIC MEASURING STATION THAT RECORDS NOISE DATA OF AIRPORTS

Presenter: Nigsch Berno

Lecture room 3

Structured Session 15.2 - The New CNOSSOS calculation method for environmental noise of road, railway and industrial noise

Organizer: Hans J.A. van Leeuwen, Arnaud Kok, Simon J. Shilton

Chairpersons: Hans J.A. van Leeuwen, Arnaud Kok, Simon J. Shilton

Lecture room 3 | Tuesday 29th May | 09:00 – 15:40

09:00 - 09:20

Kok Arnaud, van Beek Annemarie, de Gruijter Dolf

3 | S15.2-1 | OBSTACLES TO THE IMPLEMENTATION OF CNOSSOS IN THE NETHERLANDS

Presenter: Kok Arnaud

09:20 - 09:40

Dutilleux Guillaume, Soldano Bertrand

3 | S15.2-2 | MATCHING DIRECTIVE 2015/996/EC (CNOSSOS-EU) AND THE FRENCH EMISSION MODEL FOR ROAD PAVEMENTS

Presenter: Dutilleux Guillaume

09:40 - 10:00

Kokkonen Jarno

3 | S15.2-3 | CNOSSOS-EU NOISE MODEL IMPLEMENTATION IN FINLAND AND EXPERIENCE OF IT IN 3RD END ROUND

Presenter: Kokkonen Jarno

10:00 - 10:20 *Glé Philippe, Dutilleux Guillaume*

3 | S15.2-4 | TOWARD QUALITY-ASSURED SOFTWARE IMPLEMENTATIONS OF NMPB 2008 (AFNOR NFS 31-133:2011) FOR THE CALCULATION OF OUTDOOR NOISE PROPAGATION

Presenter: Dutilleux Guillaume

10:20 - 10:40 *van Leeuwen Hans J.A. , Vergoed Tim*

3 | S15.2-5 | EVALUATION AND VALIDATION OF THE CNOSSOS CALCULATION METHOD IN THE NETHERLANDS

Presenter: Vergoed Tim

Coffee break

12:00 - 12:20 *Pallas Marie-Agnès, Dutilleux Guillaume*

3 | S15.2-6 | EXPERIMENTAL CONFRONTATION OF MEDIUM-HEAVY VEHICLE NOISE EMISSION TO THE CNOSSOS-EU PREDICTION METHOD

Presenter: Pallas Marie-Agnès

12:20 - 12:40 *Peeters Bert, van Blokland Gijsjan*

3 | S15.2-7 | CORRECTING THE CNOSSOS-EU ROAD NOISE EMISSION VALUES

Presenter: Peeters Bert

12:40 - 13:00 *Salomons Erik, Eisses Arno*

3 | S15.2-8 | INVESTIGATIONS OF THE CNOSSOS SOUND PROPAGATION MODEL

Presenter: Salomons Erik

Lunch break

14:20 - 14:40 *Aspuru Itziar, Garcia Igone, Fernandez Pilar, Santander Alvaro, Vazquez Manuel*

3 | S15.2-9 | STUDY OF DECISION TO BE TAKEN IN NOISE MAPS OF URBAN TRAFFIC APPLYING CNOSSOS

Presenter: Aspuru Itziar

14:40 - 15:00 *Trow James, Allmark Claire*

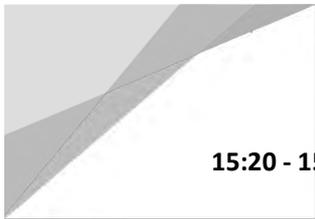
3 | S15.2-10 | THE BENEFITS OF VALIDATING YOUR AIRCRAFT NOISE MODEL

Presenter: Trow James

15:00 - 15:20 *Möhler Ulrich, Huth Christine, Liepert Manfred*

3 | S15.2-11 | CONVERSION OF RAILWAY SOURCE DESCRIPTION OF CNOSSOS - EU TO CNOSSOS - DE

Presenter: Möhler Ulrich



15:20 - 15:40

Witte Rob

3 | S15.2-12 | CNOSSOS AND INDUSTRIAL NOISE

Presenter: Witte Rob

Coffee break

Structured Session 15.1 - Strategic Environmental Noise Mapping for Urban Agglomerations and Airports

Organizer: Konstantinos Vogiatzis

Chairperson: Konstantinos Vogiatzis and Nicolas Rémy

Lecture room 2 | Tuesday 29th May | 16:40 – 18:40

16:40 - 17:00

Vogiatzis Konstantinos, Dimitriou Dimitrios, Gerolymatou Georgia , O'Connor Charles Michael , Konstantinidis Aristeidis

3 | S15.1-1 | STRATEGIC NOISE MAP 2017 OF ATHENS INTERNATIONAL AIRPORT «ELEFThERIOS VENIZELOS» (TRAFFIC DATA 2016)

Presenter: Gerolymatou Georgia

17:00 - 17:20

Vogiatzis Konstantinos, Zafiropoulou Vassiliki

3 | S15.1-2 | IMPLEMENTATION OF NOISE BARRIERS IN ATTIKI ODOS MOTORWAY BASED ON THE RELEVANT STRATEGIC NOISE MAPPING AND NOISE ACTION PLAN

Presenter: Vogiatzis Konstantinos

17:20 - 17:40

Bellucci Patrizia, Peruzzi Laura , Zambon Giovanni

3 | S15.1-3 | LIFE DYNAMAP: MAKING DYNAMIC NOISE MAPS A REALITY

Presenter: Bellucci Patrizia

17:40 - 18:00

Carniel Haryadne, Pozzer Talita, Holtz Marcos, Akkerman Davi

3 | S15.1-4 | HOW TO DEAL WITH NOISE MAP CALCULATION MODELS IN BRAZIL

Presenter: Carniel Haryadne

18:00 - 18:20

Bellucci Patrizia, Cerniglia Andrea, Coppi Paola, Peruzzi Laura, Nencini Luca, Radaelli Simone

3 | S15.1-5 | INFORMING THE PUBLIC ON NOISE IMPACTS THROUGH THE WEB-GIS DYNAMAP SOFTWARE APPLICATION

Presenter: Peruzzi Laura

18:20 - 18:40

Vogiatzis Konstantinos, Rémy Nicolas

3 | S15.1-6 | TOWARDS SUSTAINABLE URBAN SOUND ENVIRONMENT: SEVERAL CASE STUDIES IN GREECE

Presenter: Vogiatzis Konstantinos

Lecture room 4

Structured Session 10.1 - Noise and hearing aids: A bidirectional association

Organizer: Eleftheria Georganti, Christos Oreinos, Angeliki Xenaki, Marianna Vatti

Chairpersons: Eleftheria Georganti, Christos Oreinos, Angeliki Xenaki, Marianna Vatti

Lecture room 4 | Tuesday 29th May | 09:00 – 13:00

09:00 - 09:20 *Courtois Gilles, Grimaldi Vincent, Georganti Eleftheria, Lissek Hervé, Kodrasi Ina*

4 | S10.1-1 | EXPERIMENTAL EVALUATION OF SPEECH ENHANCEMENT METHODS IN REMOTE MICROPHONE SYSTEMS FOR HEARING AIDS

Presenter: Courtois Gilles

09:20 - 09:40 *Oreinos Christos, Vatti Marianna, Georganti Eleftheria, Xenaki Angeliki*

4 | S10.1-2 | AUDIO SIGNAL PROCESSING FOR HEARING INSTRUMENTS. AN OVERVIEW – PART III

Presenter: Georganti Eleftheria

09:40 - 10:00 *Oreinos Christos, Vatti Marianna, Georganti Eleftheria, Xenaki Angeliki*

4 | S10.1-3 | AUDIO SIGNAL PROCESSING FOR HEARING INSTRUMENTS. AN OVERVIEW – PART I

Presenter: Georganti Eleftheria

10:00 - 10:20 *Oreinos Christos, Vatti Marianna, Georganti Eleftheria, Xenaki Angeliki*

4 | S10.1-4 | AUDIO SIGNAL PROCESSING FOR HEARING INSTRUMENTS. AN OVERVIEW – PART II

Presenter: Georganti Eleftheria

10:20 - 10:40 *Giurda Ruksana, Georganti Eleftheria, Dillier Norbert*

4 | S10.1-5 | REVERBERATION EFFECTS ON SOURCE LOCALIZATION AND BEAMFORMING FOR HEARING AID APPLICATIONS

Presenter: Giurda Ruksana

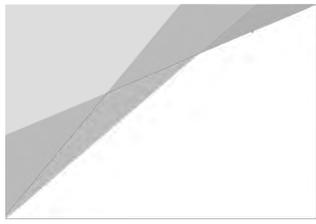
Coffee break

12:00 - 12:20 *Grimaldi Vincent, Courtois Gilles, Lissek Hervé, Georganti Eleftheria*

4 | S10.1-6 | OBJECTIVE EVALUATION OF STATIC BEAMFORMING ON THE QUALITY OF SPEECH IN NOISE

Presenter: Grimaldi Vincent

12:20 - 12:40 *Dudarewicz Adam, Pawlaczyk-Łuszczynska Małgorzata, Śliwińska-Kowalska Mariola, Ktrakazas Panagiotis, Pontoppidan Niels Henrik, Koutsouris Dimitrios, Zaborowski Kamil*



4 | S10.1-7 | PREDICTING IMPACT OF LOUD INCIDENTS ON INDIVIDUAL HEARING FOR PUBLIC HEALTH POLICY IN THE FRAMEWORK OF EVOTION

Presenter: Dudarewicz Adam

12:40 - 13:00 *Sanchez-Lopez Raul, Bianchi Federica, Fereczkowski Michal, Piechowiak Tobias, Hau Ole, Pedersen Michael Syskind, Behrens Thomas, Neher Tobias, Dau Torsten, Santurette Sébastien*

4 | S10.1-8 | TECHNICAL EVALUATION OF HEARING-AID FITTING PARAMETERS FOR DIFFERENT AUDITORY PROFILES

Presenter: Sanchez-Lopez Raul

Lunch break

Regular Session 10 – Health effects of sound

Chairperson: Martin Rösli

Lecture room 4 | Tuesday 29th May | 14:20 – 15:40

14:20 - 14:40 *Heinonen-Guzejev Marja, Kliuchko Marina, Vuust Peter, Tervaniemi Mari, Brattico Elvira, Shepherd Daniel, Dirks Kim N., Hautus Michael J., Welch David, McBride David*

4 | S10-1 | STUDYING THE ORIGINS OF NOISE SENSITIVITY – NEGATIVE AFFECT OR BIOLOGICAL FACTORS

Presenter: Heinonen-Guzejev Marja

14:40 - 15:00 *Pyko Andrei, Lind Tomas, Mitkovskaya Natalya, Pershagen Göran, Ögren Mikael, Östenson Claes-Göran, Wallas Alva*

4 | S10-2 | TRANSPORTATION NOISE AND INCIDENCE OF HYPERTENSION

Presenter: Eriksson Charlotta

15:00 - 15:20 *Rösli Martin, Héritier Harris, Foraster Maria, Eze Ikenna, de Hoogh Kees, Brink Mark, Cajochen Christian, Wunderli Jean-Marc, Probst-Hensch Nicole, Vienneau Danielle*

4 | S10-3 | A SYSTEMATIC ANALYSIS OF MUTUAL EFFECTS OF TRANSPORTATION NOISE AND AIR POLLUTION EXPOSURE ON MYOCARDIAL INFARCTION: A NATIONWIDE COHORT STUDY IN SWITZERLAND

Presenter: Rösli Martin

15:20 - 15:40 *Wallas Alva, Ekström Sandra, Eriksson Charlotta, Gruzieva Olena, Bergström Anna, Sjöström Mattias, Ögren Mikael, Bottai Matteo, Pershagen Göran, Pyko Andrei*

4 | S10-4 | ROAD TRAFFIC NOISE EXPOSURE AND DEVELOPMENT OF BODY MASS INDEX FROM BIRTH TO ADOLESCENCE

Presenter: Wallas Alva

Coffee break

Regular Session 28 – Wind turbine noise and Thermoacoustics

Chairperson: Jukka Keränen

Lecture room 4 | Tuesday 29th May | 16:40 – 17:40

16:40 - 17:00 *Hörmeyer Jasmin, Rolfes Raimund*

4 | S28-1 | NUMERICAL MODEL FOR PREDICTION OF SOUND PROPAGATION EMITTED FROM WIND TURBINES

Presenter: Hörmeyer Jasmin

17:00 - 17:20 *Keränen Jukka, Hongisto Valtteri*

4 | S28-2 | LONG-TERM MEASUREMENT OF NOISE IMMISSION FROM WIND TURBINES

Presenter: Keränen Jukka

17:20 - 17:40 *Radulescu Dan, Vizitiu Georgel, Deaconu Marius*

4 | S28-3 | OPERATIONAL WORKING DOMAIN OF BI DIRECTIONAL TURBINES USED TO HARVEST ENERGY FROM THERMOACOUSTIC ENGINES

Presenter: Radulescu Dan

Lecture room 5

Structured Session 18.5 - Acoustics in large gathering spaces

Organizer: Vojtech Chmelik, Francesco Martellotta, Daniel Urban

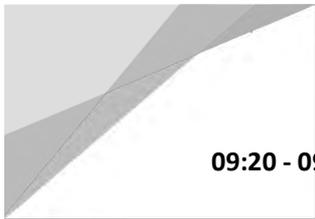
Chairpersons: Vojtech Chmelik, Francesco Martellotta, Daniel Urban

Lecture room 5 | Tuesday 29th May | 09:00 – 13:00

09:00 - 09:20 *Alvarez-Morales Lidia, Alonso Alicia, Martellotta Francesco, Girón Sara, Zamarreño Teófilo*

5 | S18.5-1 | VIRTUAL ACOUSTICS OF THE CATHEDRAL OF MURCIA CONSIDERING OCCUPANCY AND DIFFERENT SOURCE LOCATIONS

Presenter: Martellotta Francesco



09:20 - 09:40

Alberdi Enedina, Martellotta Francesco, Galindo Miguel, León Ángel Luis

5 | S18.5-2 | COUPLED SPACES IN SAN LUIS DE LOS FRANCESES CHURCH

Presenter: Martellotta Francesco

09:40 - 10:00

Horvat Marko, Jambrošić Kristian, Domitrović Hrvoje

5 | S18.5-3 | ACOUSTICS AND SOUND REINFORCEMENT ISSUES IN A MODERN-STYLE BASILICA

Presenter: Horvat Marko

10:00 - 10:20

Kaššáková Magdaléna, Zelem Lukáš, Chmelík Vojtech, Vargová Andrea, Urbán Daniel, Rychtáriková Monika

5 | S18.5-4 | ACOUSTIC COMFORT IN RESTAURANT I. PREDICTION OF BACKGROUND NOISE IN A RESTAURANT INTEGRATED IN A LARGE SHOPPING CENTER

Presenter: Kaššáková Magdaléna

10:20 - 10:40

Kaššáková Magdaléna, Zelem Lukáš, Chmelík Vojtech, Vargová Andrea, Urbán Daniel, Rychtáriková Monika

5 | S18.5-5 | ACOUSTIC COMFORT IN RESTAURANT I. PREDICTION OF BACKGROUND NOISE IN A RESTAURANT INTEGRATED IN A LARGE SHOPPING CENTRE

Presenter: Kaššáková Magdaléna

Coffee break

12:00 - 12:20

Martellotta Francesco, D'Alba Michele, Ayr Ubaldo

5 | S18.5-6 | ACOUSTIC PROBLEMS IN A LARGE HEMISPHERICAL CONCRETE CHURCH

Presenter: Martellotta Francesco

12:20 - 12:40

Zelem Lukáš, Kritly Léopold, Chemlík Vojtech, Muellner Herbert, Rychtáriková Monika

5 | S18.5-7 | ACOUSTIC COMFORT IN RESTAURANT II. IMPACT OF LATE SOUND REFLECTIONS ON ACOUSTIC CONDITIONS IN A RESTAURANT INTEGRATED IN A LARGE SHOPPING MALL

Presenter: Zelem Lukáš

12:40 - 13:00

Sikora Marjan, Russo Mladen, Mateljan Ivo

5 | S18.5-8 | HYBRID BEAM/RAY TRACING SIMULATION METHOD

Presenter: Sikora Marjan

Lunch break

Structured Session 18.7 - Objective and subjective approach in the assessment of sound diffusion in rooms

Organizer: Louena Shtrepi

Chairperson: Louena Shtrepi

Lecture room 5 | Tuesday 29th May | 14:20 – 15:20

14:20 - 14:40 *Shtrepi Louena, Astolfi Arianna*

5 | S18.7-1 | DETECTION AND INFLUENCE OF DIFFERENT LOCATIONS OF DIFFUSIVE SURFACES IN A CONCERT HALL

Presenter: Shtrepi Louena

14:40 - 15:00 *Pilch Adam, Chojnacki Bartłomiej, Binek Wojciech*

5 | S18.7-2 | OPTIMIZED DIFFUSERS FOR CONCERT HALLS

Presenter: Binek Wojciech

15:00 - 15:20 *Cairolì Maria, Mazzarella Livio*

5 | S18.7-3 | THE SENSITIVITY ESTIMATION IN SIMULATION MODELING BY CHANGING THE "DIFFUSED REFLECTION COEFFICIENT" INPUT

Presenter: Cairolì Maria

Regular Session 18 – Room acoustics

Chairperson: Jean-Dominique Polack

Lecture room 5 | Tuesday 29th May | 15:20 – 18:00

15:20 - 15:40 *Baruch Katarzyna, Majchrzak Aleksandra, Brawata Krzysztof, Kamisiński Tadeusz*

5 | S18-1 | THE ACOUSTIC PROPERTIES OF SPATIAL ABSORBING SYSTEMS – A MODEL APPROACH

Presenter: Baruch Katarzyna

15:40 - 16:00 *Harman Andrea*

5 | S18-2 | REVIEWING CURRENT STANDARDS ON ROOM ACOUSTICS IN DEMENTIA CARE ENVIRONMENTS TO ESTABLISH A WORKABLE MEANINGFUL BASIS FOR INFORMING FUTURE RESEARCH.

Presenter: Harman Andrea

16:00 - 16:20 *Knöfel Björn, Weisheit Linda, Troge Jan*

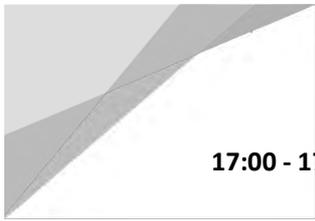
5 | S18-3 | MUSICIANS AND THEIR PRACTICE ROOMS: WHAT DO THEY THINK ABOUT PRESENT ROOM ACOUSTICS AND WHAT WOULD THEY PREFER?

Presenter: Knöfel Björn

16:40 - 17:00 *Polack Jean-Dominique, Dujourdy Hugo, Pialot Baptiste, Toulemonde Thomas*

5 | S18-4 | ENERGETIC WAVE EQUATION FOR DIFFUSE SOUND FIELDS

Presenter: Polack Jean-Dominique



17:00 - 17:20

Richard Antoine, Fernandez-Grande Efren, Brunskog Jonas, Jeong Cheol-Ho

5 | S18-5 | CHARACTERIZATION OF ACOUSTIC SCATTERING FROM OBJECTS VIA NEAR-FIELD MEASUREMENTS

Presenter: Richard Antoine

17:20 - 17:40

Šubic Nika, Dovjak Mateja, Košir Mitja, Pajek Luka, Božiček David, Potočnik Jaka, Prisljan Rok, Repše Ana, Kunič Roman

5 | S18-6 | APPLIED MEASUREMENTS PROCESS FOR IMPROVING ROOM ACOUSTICS IN CHILDREN DAY-CARE CENTRE

Presenter: Šubic Nika

17:40 - 18:00

Ziegler Thomas

5 | S18-7 | COMPARING MEASUREMENT AND SIMULATION RESULTS USING MODEL CALIBRATION FOR ROOM ACOUSTICAL EVALUATION OF INDUSTRY HALLS.

Presenter: Ziegler Thomas

Lecture room 6

Regular Session 12 – Noise and vibration control

Chairperson: Marion Burgess

Lecture room 6 | Tuesday 29th May | 09:00 – 13:00

09:00 - 09:20

Antila Marko, Lamula Lasse, Kataja Jari, Isomoisio Heikki, Rantala Seppo

6 | S12-1 | USER CENTRIC NOISE SOURCE RANKING

Presenter: Antila Marko

09:20 - 09:40

Hensel Eric, Bräunig Jan, Troge Jan, Klemm Markus

6 | S12-2 | COMPARISON OF METHODS FOR THE NUMERICAL AND EXPERIMENTAL DETERMINATION OF STRUCTURE-BORNE SOUND ENERGY FLOWS IN TECHNICAL STRUCTURES

Presenter: Bräunig Jan

09:40 - 10:00

Haan Chan Hoon

6 | S12-3 | IMPLEMENTATION OF THE FLOOR IMPACT NOISE MONITORING SYSTEM THROUGH THE FIELD TEST-BED OPERATION

Presenter: Haan Chan Hoon

10:00 - 10:20

Magrini Anna, Stallone Melchiorre

6 | S12-4 | CONTROL NOISE FOR THE COFFEE ROASTING PROCESS

Presenter: Magrini Anna

10:20 - 10:40 *Melnikov Anton, Maeder Marcus, Scheffler Michael, Marburg Steffen*

6 | S12-5 | METAMATERIALS FOR NOISE CONTROL OF MACHINERY

Presenter: Melnikov Anton

Coffee break

12:00 - 12:20 *Nieradka Paweł, Dobrucki Andrzej*

6 | S12-6 | INSERTION LOSS OF ENCLOSURES WITH LINED SLITS

Presenter: Nieradka Paweł

12:20 - 12:40 *Sgard Franck, Benacchio Simon, Luan Yu, Xu Huiyang, Carillo Kevin, Doutres Olivier, Nelisse Hugues, Wagnac Eric, De Guise Jacques*

6 | S12-7 | VIBROACOUSTIC MODELING OF AN IN VIVO HUMAN HEAD WEARING A HEARING PROTECTION DEVICE USING THE FINITE ELEMENT METHOD

Presenter: Sgard Franck

12:40 - 13:00 *Zorzo Artur, Fonseca William, Brandão Eric, Mareze Paulo, Fengler Bárbara*

6 | S12-8 | COMPARISON BETWEEN A DIGITAL AND AN ANALOG ACTIVE NOISE CONTROL SYSTEM FOR HEADPHONES

Presenter: Zorzo Artur

Lunch break

Structured Session 14.1 - Knowledge and research gaps for a better implementation of the Environmental Noise Directive

Organizer: Marco Paviotti, Bernhard Berger

Chairpersons: Marco Paviotti, Bernhard Berger

Lecture room 6 | Tuesday 29th May | 14:20 – 16:20

14:20 - 14:40 *Schreckenberg Dirk*

6 | S14.1-1 | KNOWLEDGE GAPS CONCERNING HEALTH IMPACTS OF ENVIRONMENTAL NOISE

Presenter: Schreckenberg Dirk

14:40 - 15:00 *Alberts Wiebe, Bendtsen Hans, O'Malley Vincent*

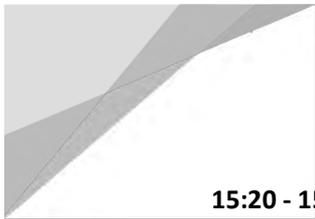
6 | S14.1-2 | APPROACHES ADOPTED BY CEDR'S WORKING GROUPS TO ADDRESS ROAD TRAFFIC NOISE IN EUROPE

Presenter: Alberts Wiebe

15:00 - 15:20 *de Vos Paul, van Leeuwen Hans*

6 | S14.1-3 | REMAINING RESEARCH TOPICS FOR RAILWAY NOISE CONTROL

Presenter: van Leeuwen Hans J.A.



15:20 - 15:40

Wolfert Henk

6 | S14.1-4 | NEW URBAN STRUCTURES, DREAM AND REALITY

Presenter: Wolfert Henk

15:40 - 16:00

Borgers Harm, Castelein Koen, Sillevs Smitt Roel

6 | S14.1-5 | REGULATING THE ACCEPTABILITY OF NOISE NUISANCE IN AN AREA-ORIENTED WAY: RESEARCH ON A PROMISING POLICY CONCEPT IN DUTCH ENVIRONMENTAL AND PLANNING LAW

Presenter: Sillevs Smitt Roel, Koen Castelein

16:00 - 16:20

Dittrich Michael, Papadimitriou Giannis, Ntziachristos Leonidas, Steven Heinz, Durampart Marie

6 | S14.1-6 | DEVELOPMENTS IN REGULATIONS FOR SOUND EMISSION OF L-CATEGORY VEHICLES

Presenter: Dittrich Michael

Lecture room 7

Structured Session 20.4 - Soundscape in Standardization

Organizer: Brigitte Schulte-Fortkamp, Klaus Genuit

Chairpersons: Brigitte Schulte-Fortkamp, Klaus Genuit

Lecture room 7 | Tuesday 29th May | 08:40 – 13:00

08:40 - 09:00

Schulte-Fortkamp Brigitte

7 | S20.4-1 | SOUNDSCAPE, STANDARDIZATION, AND APPLICATION

Presenter: Schulte-Fortkamp Brigitte

09:00 - 09:20

Klaus Genuit

7 | S20.4-2 | STANDARDIZATION OF SOUNDSCAPE: REQUEST OF BINAURAL RECORDING

Presenter: Klaus Genuit

09:20 - 09:40

Fiebig André

7 | S20.4-3 | DOES IT MAKE A DIFFERENCE TO HAVE SOUNDSCAPE STANDARDS?

Presenter: Fiebig André

09:40 - 10:00

Jordan Pamela

7 | S20.4-4 | EXPANDING SOUNDSCAPE STANDARDS THROUGH HERITAGE CONSIDERATIONS – A CASE STUDY

Presenter: Jordan Pamela

10:00 - 10:20 *Nagahata Koji*

7 | S20.4-5 | LINGUISTIC ISSUES WE MUST RESOLVE BEFORE THE STANDARDIZATION OF SOUNDSCAPE RESEARCH

Presenter: Nagahata Koji

10:20 - 10:40 *Polack Jean-Dominique, Manola Thea, Geisler Elise, Gurlot Nathalie, Tribout Silvère, Gaudibert Piotr, Perez-Munoz Antoine*

7 | S20.4-6 | CROSSING PROFESSIONAL HABITS FOR MORE GLOBAL ANALYSIS OF URBAN SOUNDSCAPES

Presenter: Polack Jean-Dominique

Coffee break

11:40 - 12:00 *Radicchi Antonella*

7 | S20.4-7 | THE USE OF MOBILE APPLICATIONS IN SOUNDSCAPE RESEARCH: OPEN QUESTIONS IN STANDARDIZATION.

Presenter: Radicchi Antonella

12:00 - 12:20 *To Wai Ming, Chung Andy, Vong Iris, Ip Amber*

7 | S20.4-8 | OPPORTUNITIES FOR SOUNDSCAPE APPRAISAL IN ASIA

Presenter: Chung Andy

12:20 - 12:40 *Siebein Gary, Paek Hyun, Roa Marylin, Miller Jennifer, Siebein, Jr. Gary, Siebein Keely, Vetterick Matthew*

7 | S20.4-9 | FULL SCALE SIMULATIONS OF SOUNDSCAPES

Presenter: Siebein Gary

12:40 - 13:00 *Trudeau Christopher, Guastavino Catherine*

7 | S20.4-10 | CLASSIFYING SOUNDSCAPES USING A MULTIFACETED TAXONOMY

Presenter: Trudeau Christopher

Lunch break

Structured Session 20.3 - Soundscapes of Public Spaces

Organizers: Tin Oberman, Kristian Jambrošić

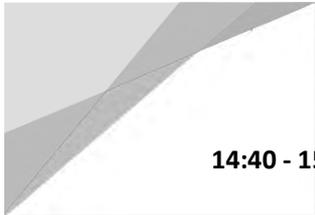
Chairpersons: Tin Oberman, Kristian Jambrošić

Lecture room 7 | Tuesday 29th May | 14:20 – 15:40

14:20 - 14:40 *Oberman Tin, Jambrošić Kristian, Bojanić Obad Šćitaroci Bojana, Margaritis Efstathios, Kang Jian*

7 | S20.3-1 | POTENTIAL OF REVERBERATION IN SQUARES FOR SOUNDSCAPE PERCEPTION

Presenter: Oberman Tin



14:40 - 15:00

Calleri Cristina, Manca Roberto, Shtrepi Louena , Astolfi Arianna

7 | S20.3-2 | BUILDING FAÇADES OPTIMISATION AT PRELIMINARY DESIGN STAGE FOR OUTDOOR NOISE MITIGATION

Presenter: Calleri Cristina

15:00 - 15:20

Kamenický Matej

7 | S20.3-3 | ENHANCED SOUND SOURCE COMPOSITION METHODS FOR QUALITATIVE MAPPING OF URBAN SOUND ENVIRONMENT

Presenter: Kamenický Matej

15:20 - 15:40

Axelsson Östen

7 | S20.3-4 | ON PERCEIVED AUDIO-VISUAL QUALITY OF URBAN PUBLIC SPACE

Presenter: Axelsson Östen

Coffee break

Regular Session 20 - Soundscapes

Chairperson: Tin Oberman

Lecture room 7 | Tuesday 29th May | 16:40 – 18:20

16:40 - 17:00

Tsaligopoulos Aggelos, Karapostoli Aimilia , Economou Chris, Bairaktaridou Kyriaki , Tsinikas Nikolaos, Matsinos Yiannis

7 | S20-1 | HOMOGENOUS SOUNDSCAPES PROMOTE THE ECOLOGICAL CONNECTIVITY OF URBAN GREEN AREAS

Presenter: Tsaligopoulos Aggelos

17:00 - 17:20

Daumal i Domènech Francesc, del Rio Bonnin Sandra

7 | S20-2 | ARE THE LOUD KNOCKS –“PICS I REPICONS” - STILL REMAINING AS VOICES IN THE SOUNDSCAPES OF THE “BARRI GÒTIC” OF BARCELONA?

Presenter: del Rio Bonnin Sandra

17:20 - 17:40

Acun Volkan, Yilmazer Semiha , Orhan Cemre

7 | S20-3 | INDOOR SOUNDSCAPE OF HISTORICAL SPACES: THE CASE OF CENGELHAN CARAVANSERAİ

Presenter: Acun Volkan

17:40 - 18:00

Ozcevik Bilen Asli, Kandemir Ozlem

7 | S20-4 | AN ATTEMPT TO DESIGN FOR AN URBAN AREA THROUGH ITS SOUNDSCAPE

Presenter: Ozcevik Bilen Asli

18:00 - 18:20 *Dzhambov Angel, Markevych Iana, Tilov Boris, Arabadzhiev Zlatoslav, Stoyanov Drozdtoj, Gatseva Penka, Dimitrova Donka*

7 | S20-5 | ASSOCIATION BETWEEN OBJECTIVELY-MEASURED GREENSPACE AND NOISE ANNOYANCE: NOISE REDUCTION AND PERCEIVED GREENSPACE AS PUTATIVE MEDIATORS

Presenter: Dzhambov Angel

Lecture room 8

Regular Session 17 – Building Acoustics

Chairperson: Bill Whitfield

Lecture room 8 | Tuesday 29th May | 09:00 – 13:00

09:00 - 09:20 *Lietzén Jesse, Kylliäinen Mikko*

8 | S17-1 | FINNISH ROUND ROBIN TEST ON AIRBORNE SOUND INSULATION

Presenter: Lietzén Jesse

09:20 - 09:40 *Masoumi Hamid, Pinto Paulo, Carels Patrick M.*

8 | S17-2 | IMPROVEMENTS IN ACOUSTICAL PERFORMANCE OF LIGHTWEIGHT FLOATING FLOORS FOR GYM/SPORTS APPLICATIONS

Presenter: Masoumi Hamid

09:40 - 10:00 *Nagy Attila Balazs, Fiala Peter*

8 | S17-3 | VALIDATION OF STRUCTURE-BORNE SOUND PREDICTION METHODS

Presenter: Nagy Attila Balazs

10:00 - 10:20 *Stange-Kölling Sylvia, Wittstock Volker*

8 | S17-4 | COMPARISON MEASUREMENTS AT THE PHYSIKALISCH-TECHNISCHE BUNDESANSTALT IN THE YEAR 2016

Presenter: Stange-Kölling Sylvia

10:20 - 10:40 *Tsukernikov Ilya, Fadeev Alexandr*

8 | S17-5 | AIRBORNE SOUND INSULATION BETWEEN TWO CINEMAS

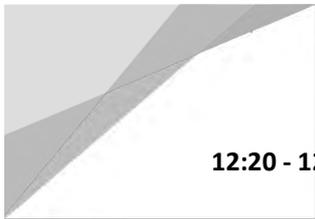
Presenter: Tsukernikov Ilya

Coffee break

12:00 - 12:20 *Van den Wyngaert Jan, Schevenels Mattias, Reynders Edwin*

8 | S17-6 | EFFICIENT SOUND INSULATION PREDICTION MODELS FOR HOLLOW CORE MASONRY WALLS

Presenter: Van den Wyngaert Jan



12:20 - 12:40

van Dijk Chris

8 | S17-7 | DOUBLE WALLED FIRE RESISTANT ACOUSTIC STRUCTURES

Presenter: van Dijk Chris

12:40 - 13:00

Whitfield Bill, Fenlon John

8 | S17-8 | MEASUREMENT UNCERTAINTY AND THE COMPONENTS OF VARIANCE IN AIRBORNE SOUND INSULATION TESTING FOR 'HEAVY CONCRETE FLOORS

Presenter: Whitfield Bill

Lunch break

Structured Session 17.4 - Annoyance due to low-level sounds transmitted to dwellings

Organizers: Valtteri Hongisto, Pyoung Jik Lee

Chairpersons: Valtteri Hongisto, Pyoung Jik Lee

Lecture room 8 | Tuesday 29th May | 14:20 – 15:40

14:20 - 14:40

Hongisto Valtteri, Oliva David

8 | S17.4-1 | ANNOYANCE PENALTY OF LOW-LEVEL TONAL SOUNDS - AUDIOLOGICAL STUDY WITH SYNTHETIC SOUNDS

Presenter: Hongisto Valtteri

14:40 - 15:00

Ryu Jongkwan, Song Hansol

8 | S17.4-2 | MASKING EFFECT OF ARTIFICIAL AND NATURAL SOUNDS ON RESIDENTIAL NOISES

Presenter: Ryu Jongkwan

15:00 - 15:20

Benklewski Jakub, Horvat Marko, Chmelik Vojtech, Zelem Lukas, Müllner Herbert, Jambrosic Kristian, Rychtarikova Monika, Glorieux Christ

8 | S17.4-3 | THE INFLUENCE OF THE REPRODUCTION SYSTEM ON THE RESULTS OF THE LISTENING TESTS IN BUILDING ACOUSTICS

Presenter: Benklewski Jakub

15:20 - 15:40

Maigrot Philéas, Marquis-Favre Catherine, Parizet Étienne

8 | S17.4-4 | THE INFLUENCE OF ENERGY-BASED PARAMETERS ON ANNOYANCE DUE TO COMBINED RAILWAY NOISE AND VIBRATIONS: A LACK OF CONSENSUS AMONG THE LITERATURE STUDIES

Presenter: Maigrot Philéas

Coffee break

Regular Session 5 – Audiology

Chairperson: Stefan Uppenkamp

Lecture room 8 | Tuesday 29th May | 16:40 – 18:00

16:40 - 17:00 *Gawlik Mateusz, Wszolek Wiesław*

8 | S5-1 | MODERN PITCH DETECTION METHODS IN SINGING VOICES ANALYZES

Presenter: Gawlik Mateusz

17:00 - 17:20 *Laroche Chantal, Giguère Christian, Vaillancourt Véronique, Marleau Claudia, Cadieux Marie-France, Girard-Laprise Karina, Bibeau Manuelle, Gula Emily, Carroll Véronique, Nélisse Hugues*

8 | S5-2 | EFFECT OF HEARING PROTECTION ON THE LOCALIZATION OF TONAL AND BROADBAND REVERSE ALARMS

Presenter: Laroche Chantal

17:20 - 17:40 *Uppenkamp Stefan, Netter Kirsten, Behler Oliver*

8 | S5-3 | AUDITORY FUNCTIONAL MRI ACTIVATION MAPS IN RESPONSE TO LOW-FREQUENCY AND INFRASOUND STIMULATION

Presenter: Uppenkamp Stefan

17:40 - 18:00 *van Dijk Chris, Dommels André*

8 | S5-4 | LOW FREQUENCY HEARING THRESHOLD IN RELATION TO PREDICTABILITY

Presenter: van Dijk Chris

Lecture room 9

Structured Session 11.1 - Measurement, modelling and assessment of industrial noise

Organizers: Tadeusz Wszolek, Janusz Piechowicz

Chairpersons: Tadeusz Wszolek, Janusz Piechowicz

Lecture room 9 | Tuesday 29th May | 09:00 – 13:00

09:00 - 09:20 *Piechowicz Janusz, Wiciak Jerzy, Piechowicz Jakub*

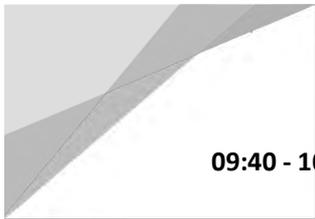
9 | S11.1-1 | INDUSTRIAL NOISE IN THE ARCTIC SETTLEMENT

Presenter: Piechowicz Janusz

09:20 - 09:40 *Swiatkowski Michal, Jaros Adam, Kozupa Michal, Ploetner Christoph*

9 | S11.1-2 | DETERMINATION OF TRANSFORMER SOUND POWER LEVEL IN RESPECT TO TEST METHOD AND MEASUREMENT CONDITIONS

Presenter: Kozupa Michal



09:40 - 10:00

Kukulski Bartłomiej, Wszolek Tadeusz

9 | S11.1-3 | ON ADAPTION OF PSYCHOACOUSTICAL LOUDNESS MEASURE FOR DIFFERENTIATE IMPULSIVE NOISE EVENTS

Presenter: Kukulski Bartłomiej

10:00 - 10:20

Kozupa Michal, Kolusz Grzegorz, Ploetner Christoph, Swiatkowski Michal

9 | S11.1-4 | ACOUSTIC RADIATION EFFICIENCY PARAMETER IN ASSESSMENT OF TRANSFORMER NOISE

Presenter: Kozupa Michal

10:20 - 10:40

Nélisse Hugues, Bonnet Fabien, Voix Jérémie

9 | S11.1-5 | IN-EAR NOISE DOSIMETRY: CHALLENGES AND BENEFITS

Presenter: Nélisse Hugues

Coffee break

12:00 - 12:20

Márkus Miklós, Muntag András

9 | S11.1-6 | NOISE CONTROL OF LARGE WET COOLING TOWERS

Presenter: Márkus Miklós

12:20 - 12:40

Stępień Bartłomiej

9 | S11.1-7 | THE USE OF THE BOOTSTRAP METHOD FOR DETERMINING THE SOUND POWER LEVEL

Presenter: Stępień Bartłomiej

12:40 - 13:00

van der Linden Petrus J. G. , Morariu Marius C.

9 | S11.1-8 | USING A MONOPOLE SOUND POWER SOURCE TO DETERMINE MACHINERY SOUND POWER

Presenter: van der Linden Petrus J. G.

Lunch break

Structured Session 11.2 - Advanced Measurement techniques in building acoustics, part 1: New and consolidated material

Organizers: Patrizio Fausti, Stefan Schoenwald

Chairpersons: Patrizio Fausti, Stefan Schoenwald

Lecture room 9 | Tuesday 29th May | 14:20 – 15:40

14:20 - 14:40 *Jaouen Luc, Gourdon Emmanuel, Edwards Matthew*

9 | S11.2-1 | 6-PARAMETER ACOUSTICAL CHARACTERIZATION OF POROUS MEDIA USING A CLASSICAL IMPEDANCE TUBE

Presenter: Jaouen Luc

14:40 - 15:00 *Jean-Baptiste Chéné, Frédéric Fallais, Corentin Coguenanff, Catherine Guigou-Carter, David Rousseau, Arthur Di Ruzza*

9 | S11.2-2 | ISO 10140 SERIES, IMPOSSIBLE WAY TO MANAGE LOW FREQUENCY MEASUREMENTS AND TO IMPROVE OVERALL REPRODUCIBILITY?

Presenter: Jean-Baptiste Chéné

15:00 - 15:20 *Monteiro Carolina, Johansson Reine, Machimbarena María, Borin Marcel*

9 | S11.2-3 | INDIVIDUAL UNCERTAINTY CALCULATIONS OF SOUND INSULATION MEASUREMENTS: A PROPOSAL OF COMPROMISE VALUES FOR 1/3 OCTAVE BANDS CORRELATION COEFFICIENTS

Presenter: Monteiro Carolina

15:20 - 15:40 *Wittstock Volker, Schmelzer Martin*

9 | S11.2-4 | MEASUREMENT OF AIRFLOW RESISTANCE BY THE ALTERNATING FLOW METHOD

Presenter: Wittstock Volker

Structured Session 11.3 - Advanced Measurement techniques in building acoustics, part 2: Experimental vibroacoustics

Organizers: Andrea Santoni, Stefan Schoenwald

Chairpersons: Andrea Santoni, Stefan Schoenwald

Lecture room 9 | Tuesday 29th May | 15:40 – 18:20

15:40 - 16:00 *Schoenwald Stefan, Tröbs Hans-Martin*

9 | S11.3-1 | ASSESSMENT OF STRUCTURE-BORNE SOUND INTENSITY OF SOLID WOOD WALLS USING A SCANNING LASER DOPPLER-VIBROMETER

Presenter: Schoenwald Stefan

16:00 - 16:20 *Santoni Andrea, Fausti Patrizio, Bonfiglio Paolo*

9 | S11.3-2 | EXPERIMENTAL SETUP FOR ACOUSTIC AND MECHANICAL CHARACTERISATION OF LIGHTWEIGHT BUILDING ELEMENTS

Presenter: Santoni Andrea



Coffee break

16:40 - 17:00 *Roozen N.B., Bonfiglio Paolo , Pompoli Francesco*

9 | S11.3-3 | CHARACTERIZATION OF ELASTIC PARAMETERS OF POINT AND LINE EXCITED POROUS MATERIALS BY MEANS OF THE WAVE CORRELATION METHOD, HANKEL FUNCTIONS AND MINDLIN'S PLATE THEORY; A NUMERICAL STUDY.

Presenter: Roozen N.B.

17:00 - 17:20 *Roozen N.B., Zatko Peter, Urban Daniel, Niemczanowski Alexander, Muellner Herbert*

9 | S11.3-4 | AN EXPERIMENTAL STUDY INTO THE AIRBORNE SOUND TRANSMISSION THROUGH A PARTITION WALL IN BUILDINGS VIA STRUCTURAL TRANSMISSIONS OF WINDOW PROFILES; A CASE STUDY.

Presenter: Roozen N.B.

17:20 - 17:40 *Mecking Simon, Schoenwald Stefan, Schanda Ulrich*

9 | S11.3-5 | MATERIAL CHARACTERISATION OF CROSS LAMINATED TIMBER USING EXPERIMENTAL WAVE VELOCITIES

Presenter: Mecking Simon

17:40 - 18:00 *Conta Simone, Homb Anders*

9 | S11.3-6 | CHALLENGES AND LIMITATIONS USING THE INTEGRAL TRANSFORM METHOD TO OBTAIN THE IMPACT NOISE LEVEL OF TIMBER FLOORS

Presenter: Conta Simone

18:00 - 18:20 *Bietz Heinrich, Wittstock Volker*

9 | S11.3-7 | INVESTIGATIONS TO DETERMINE THE DYNAMIC STIFFNESS OF ELASTIC INSULATING MATERIALS

Presenter: Bietz Heinrich

Lecture room 10

Regular Session 23 – Structural Acoustics and Vibration

Chairperson: Martin Rössli

Lecture room 10 | Tuesday 29th May | 09:00 – 13:00

09:00 - 09:20 *Kil Hyun-Gwon, Lee Chan*

10 | S23-1 | ANALYSIS OF CHARACTERISTICS OF ELASTIC WAVES PROPAGATING ON A VIBRATING CYLINDRICAL SHELL AT FREQUENCIES AROUND A RING FREQUENCY

Presenter: Kil Hyun-Gwon

09:20 - 09:40 Bertolla Maddalena, Scotoni Mario, Caldara Mauro, Giacomelli Gianmarco

10 | S23-2 | ACOUSTIC SENSING OF AN INTERLACED YARN IN A NOISY INDUSTRIAL ENVIRONMENT

Presenter: Bertolla Maddalena

09:40 - 10:00 M.El-Basheer Tarek, A.Shawky Hany

10 | S23-3 | MEASUREMENTS AND LIMITS OF VIBRATION AFFECTING THE SENSITIVE EQUIPMENTS OF SOME METROLOGICAL LABORATORIES

Presenter: M.El-Basheer Tarek

10:00 - 10:20 Moezzi Reza, Auriemma Fabio

10 | S23-4 | OBSERVATION OF NONLINEAR VIBRO-ACOUSTIC PHENOMENA IN THE PRESENCE OF ELASTIC MEMBRANE WITH DIFFERENT BOUNDARY CONDITIONS

Presenter: Moezzi Reza

10:20 - 10:40 Sardá Alexandre, Lenzi Arcanjo

10 | S23-5 | SUSPENSION OPTIMIZATION FOR AN HERMETIC COMPRESSOR ASSEMBLED ON A REFRIGERATOR

Presenter: Sardá Alexandre

Coffee break

12:00 - 12:20 Münch Hannes, Dilba Boris, Backhaus Stefan-Georg, Becker Stefan

10 | S23-6 | COMPUTER-AIDED SOUND ESTIMATION OF INDUSTRIAL PRODUCTS FOR 3D VIRTUAL REALITY APPLICATIONS

Presenter: Münch Hannes

12:20 - 12:40 Scholz Magdalena, Moheit Lennart, Marburg Steffen

10 | S23-7 | A REVIEW OF HAND-ARM VIBRATION SIMULATION APPROACHES

Presenter: Scholz Magdalena

12:40 - 13:00 Picu Laurentiu

10 | S23-8 | BIODYNAMICS OF THE HUMAN BODY UNDER HAND-ARM VIBRATION: DEVELOPMENT OF A BIOMECHANICAL MODEL

Presenter: Picu Laurentiu

Lunch break



Structured Session 12.1 - Noise control in low emission zones

Organizers: Sergio Luzzi, Chiara Bartalucci

Chairpersons: Sergio Luzzi, Chiara Bartalucci

Lecture room 10 | Tuesday 29th May | 14:20 – 18:00

14:20 - 14:40 *Borchi Francesco, Bartalucci Chiara, Carfagni Monica, Furferi Rocco, Governi Lapo, Lapini Alessandro, Bellomini Raffaella, Nencini Luca*

10 | S12.1-1 | THE SMART NOISE MONITORING SYSTEM IMPLEMENTED IN THE FRAME OF THE LIFE MONZA PROJECT

Presenter: Borchi Francesco

14:40 - 15:00 *Chonianaki Fotini, Luzzi Sergio, Bartalucci Chiara*

10 | S12.1-2 | TRANQUILIZATION OF URBAN AREAS IN SMALL AND MEDIUM SIZED MEDITERRANEAN CITIES: IMPLEMENTATION OF REGULATIONS AND SOLUTIONS IN THE CITIES OF HERAKLION, RETHYMNON AND FLORENCE (PERIOD FROM 1997 UP TODAY)

Presenter: Chonianaki Fotini

15:00 - 15:20 *Cobussen Marcel*

10 | S12.1-3 | RETHINKING NOISE

Presenter: Cobussen Marcel

15:20 - 15:40 *curcuruto salvatore, marsico giuseppe, mazzocchi enrico, silvaggio rosalba*

10 | S12.1-4 | DEVELOPMENT OF LIFE MONZA PROJECT: INTRODUCTION AND MANAGEMENT OF NOISE LOW EMISSION ZONES

Presenter: Mazzocchi Enrico

15:40 - 16:00 *Campmans Theo*

10 | S12.1-5 | SPECIAL NOISE REDUCTION FOR VENTILATION OUTLET OF A 50 KV TRANSFORMER STATION

Presenter: Campmans Theo

Coffee break

16:40 - 17:00 *RIBEIRO Carlos, MIETLICKI Fanny, SINEAU Matthieu, LEFEBVRE Jérôme, IBTATEN Kevin*

10 | S12.1-6 | MONITORING THE ACOUSTIC PERFORMANCE OF LOW-NOISE PAVEMENTS

Presenter: MIETLICKI Fanny

17:00 - 17:20 *MIETLICKI Fanny, SINEAU Matthieu*

10 | S12.1-7 | EVOLUTION OF THE SOUNDSCAPE FOLLOWING THE TRAFFIC CLOSURE ON THE RIGHT BANK OF THE SEINE IN PARIS

Presenter: MIETLICKI Fanny

17:20 - 17:40 *Vasilyev Andrey*

10 | S12.1-8 | APPROACHES TO ACOUSTICAL PLANNING OF TOWNS (RUSSIAN EXPERIENCE)

Presenter: Vasilyev Andrey

17:40 - 18:00 *Vasilyev Andrey, Vasilyev Vladislav*

10 | S12.1-9 | METHODS AND EXPERIENCE OF MONITORING AND REDUCTION OF INFRASOUND RADIATION IN LOW EMISSION ZONES OF RUSSIA

Presenter: Vasilyev Andrey

Lecture room 11

Structured Session 25.2 - Tyre / road noise

Organizers: Tadeusz Wszolek, Janusz Piechowicz

Chairpersons: Tadeusz Wszolek, Janusz Piechowicz

Lecture room 11 | Tuesday 29th May | 09:00 – 15:40

09:00 - 09:20 *van Blokland Gijsjan, Peeters Bert*

11 | S25.2-1 | EFFECTIVE VEHICLE NOISE REDUCTION WITH TWO LAYER POROUS ASPHALT

Presenter: van Blokland Gijsjan

09:20 - 09:40 *Mioduszewski Piotr, Taryma Stanisław, Woźniak Ryszard*

11 | S25.2-2 | TEMPERATURE INFLUENCE ON TYRE/ROAD NOISE ON POROELASTIC ROAD SURFACE BASED ON LABORATORY MEASUREMENTS

Presenter: Mioduszewski Piotr

09:40 - 10:00 *Ejsmont Jerzy, Świczko-Żurek Beata, Owczarzak Wojciech, Ronowski Grzegorz, Sommer Sławomir*

11 | S25.2-3 | TYRE/ROAD NOISE ON POROELASTIC ROAD SURFACES - RESULTS OF LABORATORY MEASUREMENTS

Presenter: Ejsmont Jerzy

10:00 - 10:20 *Iversen Lykke Møller*

11 | S25.2-4 | EFFECTS OF SEALING ON THE NOISE PROPERTIES OF WORN PAVEMENTS

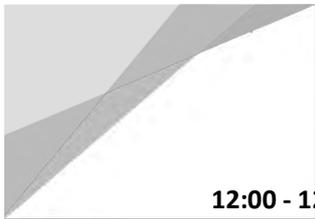
Presenter: Iversen Lykke Møller

10:20 - 10:40 *Andriejauskas Tadas, Vaitkus Audrius, Čygas Donatas*

11 | S25.2-5 | TYRE/ROAD NOISE SPECTRUM ANALYSIS OF AGEING LOW NOISE PAVEMENTS

Presenter: Andriejauskas Tadas

Coffee break



12:00 - 12:20 *Maennel Manuel, Ertsey Maximilian*

11 | S25.2-6 | TECHNOLOGICAL AND MARKET-ORIENTED DEVELOPMENT OF MEASURING SYSTEMS

Presenter: Maennel Manuel

12:20 - 12:40 *Hammer Emanuel, Bühlmann Erik*

11 | S25.2-7 | THE NOISE REDUCTION POTENTIAL OF "SILENT TYRES" ON COMMON ROAD SURFACES

Presenter: Hammer Emanuel

12:40 - 13:00 *Peeters Bert, Reinink Fred, van Vliet WillemJan*

11 | S25.2-8 | CLOSE PROXIMITY (CPX) ROUND ROBIN TEST 2017

Presenter: Peeters Bert

Lunch break

14:20 - 14:40 *Stahlfest Holck Skov Rasmus, Fryd Jakob, Sjøvold Jannicke, Bermlid Julia*

11 | S25.2-9 | NORDTYRE – TEST OF EU TYRE NOISE LABELLING SYSTEM CONCERNING NOISE EMISSIONS FROM CARS AND TRUCKS AND INFLUENCE ON ANNOYANCE IN THE NORDIC COUNTRIES

Presenter: Bendtsen Hans

14:40 - 15:00 *Steiner Simon, Bühlmann Erik, Hammer Emanuel*

11 | S25.2-10 | MILESTONES IN ESTABLISHING LOW-NOISE ASPHALTS AS A WIDELY USED, EFFECTIVE AND DURABLE NOISE ABATEMENT MEASURE IN SWITZERLAND

Presenter: Steiner Simon

15:00 - 15:20 *Koike Hiroshi*

11 | S25.2-11 | INFLUENCE OF ROAD SURFACES ON VEHICLE RUNNING NOISE IN THE PUBLIC ROADS OF JAPAN

Presenter: Koike Hiroshi

15:20 - 15:40 *Lu Xiaodong, Liu Xidong, Yang Lin, Feng Yue, Yue Jingjing*

11 | S25.2-12 | THE STUDY ON THE SPACIAL CHANGING PATTERNS OF THE ROAD TRAFFIC NOISE PERCEPTION

Presenter: Lu Xiaodong

Coffee break

Structured Session 20.1 - Indoor soundscaping

Organizers: Jian Kang, Papatya Nur Dokmeci Yorukoglu

Chairpersons: Jian Kang, Papatya Nur Dokmeci Yorukoglu

Lecture room 11 | Tuesday 29th May | 16:40 – 18:40

16:40 - 17:00 *REMY Nicolas, MARCHAL Theo, CHELKOFF Grégoire, AMINI Hengameh, BARDYN Jean-Luc, GAMAL Noha*

11 | S20.1-1 | ESQUIS'ONS ! SKETCHING SOUNDSCAPES BY USING PARAMETRIC TOOLS: APPLICATION TO THE DESIGN OF BALCONIES, LOGGIAS, TERRACES AND CORRIDORS OF BUILDING FACADES

Presenter: REMY Nicolas

17:00 - 17:20 *ABURAWIS Ayad A Mohamed , DOKMECI YORUKOGLU Papatya Nur*

11 | S20.1-2 | OCCUPANT EXPERIENCE OF INDOOR SOUNDSCAPES IN UNIVERSITY OFFICE SPACES

Presenter: ABURAWIS Ayad A Mohamed

17:20 - 17:40 *Aletta Francesco, Vander Mynsbrugge Tara, Thomas Pieter, Filipan Karlo , Botteldooren Dick, Petrovic Mirko, De Vriendt Patricia, Van de Velde Dominique, de Vos Paul*

11 | S20.1-3 | THE RELATIONSHIP BETWEEN NOISE SENSITIVITY AND SOUNDSCAPE APPRAISAL OF CARE PROFESSIONALS IN THEIR WORK ENVIRONMENT: A CASE STUDY IN NURSING HOMES IN FLANDERS, BELGIUM

Presenter: Aletta Francesco

17:40 - 18:00 *Lee Pyoung Jik, Park Sang Hee, Jung Timothy*

11 | S20.1-4 | EFFECTS OF EXPOSURE TO RURAL SOUNDSCAPE ON PSYCHOLOGICAL RESTORATION

Presenter: Lee Pyoung Jik

18:00 - 18:20 *Zhang Zhen, Zhang Yuan, Kang Jian*

11 | S20.1-5 | AN EXPERIMENTAL STUDY ON THE INFLUENCE OF ENVIRONMENTAL NOISE ON STUDENTS' ATTENTION

Presenter: Zhang Yuan

18:20 - 18:40 *ZHAO Wei, KANG Jian, XU Hongpeng*

11 | S20.1-6 | PARTICLE SWARM OPTIMISATION FOR ACOUSTICS AND DAYLIGHT IN ATRIUMS

Presenter: ZHAO Wei



Poster Session

09:00 - 13:00 *Orga Ferran, Alías Francesc, Alsina-Pagès Rosa Ma.*

0 | S10-1 | IMPACT OF INDIVIDUAL ANOMALOUS NOISE EVENTS ON THE MONITORING OF TRAFFIC NOISE IN URBAN AREAS

Presenter: Orga Ferran

09:00 - 13:00 *Carvalhais Carlos, V. Silva Manuela, Silva Joana, Xavier Ana, Santos Joana*

0 | S10-2 | NOISE IN NEONATAL INTENSIVE CARE UNITS: A SHORT REVIEW

Presenter: Carvalhais Carlos

09:00 - 13:00 *Carvalhais Carlos, Neves Paula, Laffon Blanca, Teixeira João Paulo, Costa Pereira Cristiana*

0 | S10-3 | RELATION BETWEEN HUMAN EXPOSURE TO NOISE AND THE DEVELOPMENT OF CARDIOVASCULAR DISORDERS THROUGH AN EPIGENETIC ANALYSIS: STUDY DESIGN

Presenter: Carvalhais Carlos

09:00 - 13:00 *Lombardi Ilaria, Trematerra Amelia*

0 | S18-1 | THE ACOUSTIC CORRECTION OF MONUMENTAL CHURCHES: THE CASE OF THE DUOMO OF RAVELLO (ITALY)

Presenter: Lombardi Ilaria

09:00 - 13:00 *Russo Mladen, Kraljevic Luka, Stella Maja, Sikora Marjan*

0 | S18-2 | ACOUSTIC PERFORMANCE ANALYSIS OF ANECHOIC CHAMBERS BASED ON ISO 3745 AND ISO 26101: STANDARDS COMPARISON AND PERFORMANCE ANALYSIS OF THE ANECHOIC CHAMBER AT THE UNIVERSITY OF SPLIT

Presenter: Russo Mladen

09:00 - 13:00 *Matthew Thomas Sanju, Newton Michael, Hamilton Brian*

0 | S18-3 | A COMPARATIVE STUDY OF SPATIAL DECODING METHODS FOR BINAURAL RENDERINGS IN 3D AUDIO

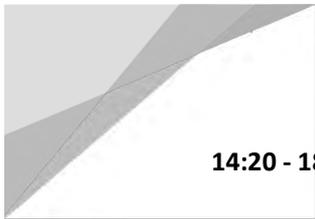
Presenter: Hamilton Brian

09:00 - 13:00 *Rosas-Pérez Carmen, Luna-Ramírez Salvador*

0 | S20-1 | BINAURAL MICROPHONES CHARACTERISATION AND SOUNDSCAPES RECORDING

Presenter: Rosas-Pérez Carmen

- 09:00 - 13:00** *Zervas Panagiotis, Myriounis Antreas*
 0 | S20-2 | DEVELOPING A DIGITAL MAP FRAMEWORK FOR CROWDSOURCING ENVIRONMENTAL AUDIO DATA
Presenter: Zervas Panagiotis
- 09:00 - 13:00** *Chojnacki Bartłomiej, Piechowicz Janusz, Matys Magdalena, Piotrowski Kamil*
 0 | S20-3 | NOISE CONTROL IN URBAN PARKS IN CRACOW
Presenter: Chojnacki Bartłomiej
- 14:20 - 18:00** *Malczyk Grażyna, Wszolek Wiesław*
 0 | S5-1 | VIBROACOUSTIC PARAMETERS IN THE ASSESSMENT OF STUTTERERS
Presenter: Malczyk Grażyna
- 14:20 - 18:00** *Gheller Flavia, Lovo Elisa, Bovo Roberto*
 0 | S5-2 | SPEECH INTELLIGIBILITY IN NOISE: EVALUATION OF CHILDREN WITH COCHLEAR IMPLANT USING ITALIAN MATRIX SENTENCE TEST.
Presenter: Gheller Flavia
- 14:20 - 18:00** *Albu Felix*
 0 | S12-1 | AN EFFICIENT COMBINED ACTIVE NOISE CONTROL AND NOISE REDUCTION METHOD FOR HEARING AIDS
Presenter: Albu Felix
- 14:20 - 18:00** *Matys Magdalena, Piotrowski Kamil, Kukulski Bartłomiej, Sobolewska Monika*
 0 | S12-2 | ANALYSIS OF THE NOISE GENERATED BY VARIOUS TYPES OF FIREARMS
Presenter: Sobolewska Monika
- 14:20 - 18:00** *Orlis Dimitris, Giouvanakis Marios, Sevastiadis Christos, Papanikolaou Georgios*
 0 | S12-3 | SIMULATION OF ACTIVE LOW FREQUENCY NOISE CONTROL IN CLOSED SPACES USING THE FDTD METHOD
Presenter: Giouvanakis Marios
- 14:20 - 18:00** *Giouvanakis Marios, Vrysis Lazaros, Sevastiadis Christos, Papanikolaou George*
 0 | S12-4 | CONTROL OF RESONANT LOW-FREQUENCY NOISE SIMULATIONS IN DIFFERENT AREAS OF SMALL SPACES USING COMPOUND SOURCES
Presenter: Giouvanakis Marios



14:20 - 18:00 *Kim Yong Hee, Song Guk Gon, Bae Seok Kyeong*

0 | S17-1 | APPLICATION OF ETPU TO FLOOR RESILIENT MATERIALS FOR REDUCING FLOOR IMPACT NOISES

Presenter: Kim Yong Hee

14:20 - 18:00 *Diapoulis Georgios, Rosas Carmen, Larsson Krister, Kropp Wolfgang*

0 | S17-2 | PERSON IDENTIFICATION FROM WALKING SOUND ON WOODEN FLOOR

Presenter: Diapoulis Georgios

14:20 - 18:00 *Verbandt Filip*

0 | S17-3 | THE INI-EVA RANKING: THE TRUTH ABOUT RESILIENT LAYERS

Presenter: Bataillie Claude

14:20 - 18:00 *HU Yue, FU Yao, YANG Yang*

0 | S17-4 | EFFECT OF LAYOUT FORM OF DINING SPACE ON ITS ACOUSTIC ENVIRONMENT IN LARGE PENSION INSTITUTE IN CHINA

Presenter: HU Yue

14:20 - 18:00 *YANG Yang, FU Yao, HU Yue*

0 | S17-5 | STUDY ON THE DINING SPACE AREA BASED ON SOUND COMFORT IN LARGE PENSION INSTITUTE IN CHINA

Presenter: YANG Yang

Wednesday 30th May, 2018

Plenary Lecture

Lecture room 1 | Wednesday 30th May | 11:00 – 11:40

11:00 - 11:40 Carl Hopkins

1 | P-3 | SOUND TRANSMISSION IN BUILDINGS: RECENT DEVELOPMENTS AND CURRENT CHALLENGES IN MEASUREMENT AND PREDICTION

Lecture room 1

Structured Session 21.1 Source localization and acoustic array processing

Organizers: Efren Fernandez Grande, Maximo Cobos, Boaz Rafaely

Chairpersons: Efren Fernandez Grande, Maximo Cobos, Boaz Rafaely

Lecture room 1 | Wednesday 30th May | 09:00 – 13:00

09:00 - 09:20 *Delikaris-Manias Symeon, Pavlidi Despoina, Mouchtaris Athanasios, McCormack Leo*

1 | S21.1-1 | SPATIALLY LOCALISED DIRECTION OF ARRIVAL ESTIMATION

Presenter: Pavlidi Despoina

09:20 - 09:40 *Fernandez-Grande Efren, Christiansen Rasmus Ellebæk*

1 | S21.1-2 | SPARSE VOLUMETRIC RECONSTRUCTION OF THE SOUND FIELD IN A ROOM

Presenter: Fernandez-Grande Efren

09:40 - 10:00 *Gannot Sharon, Schwartz Ofer, Dorfan Yuval*

1 | S21.1-3 | SPEAKER LOCALIZATION AND TRACKING USING RECURSIVE AND DISTRIBUTED EXPECTATION-MAXIMIZATION (EM) ALGORITHMS

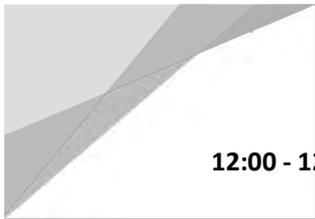
Presenter: Gannot Sharon

10:00 - 10:20 *Bouley Simon, Vanwynsberghe Charles, Le Magueresse Thibaut, Antoni Jérôme*

1 | S21.1-4 | ON AN ARRAY LOCALIZATION TECHNIQUE WITH EUCLIDEAN DISTANCE GEOMETRY

Presenter: Bouley Simon

Coffee break



12:00 - 12:20

Brendel Andreas, Huang Chengyu, Kellermann Walter

1 | S21.1-5 | STFT BIN SELECTION FOR LOCALIZATION ALGORITHMS BASED ON THE SPARSITY OF SPEECH SIGNAL SPECTRA

Presenter: Brendel Andreas

12:20 - 12:40

Sikdar Shirsendu, Wiesław

1 | S21.1-6 | ACOUSTIC EMISSION SOURCE LOCALIZATION IN ADVANCED COMPOSITE STRUCTURES

Presenter: Sikdar Shirsendu

12:40 - 13:00

Zea Elias

1 | S21.1-7 | MODELLING SPACE-VARIANT REFLECTIONS IN WAVENUMBER ARRAY SPECTRA

Presenter: Zea Elias

Lecture room 2

Structured Session 18.6 Acoustics of reverberation chambers

Organizers: Michael Vorlander, Cheol-Ho Jeong

Chairpersons: Michael Vorlander, Cheol-Ho Jeong

Lecture room 2 | Wednesday 30th May | 08:40 – 13:20

08:40 - 09:00

Jeong Cheol-Ho, Nolan Mélanie, Balint Jamilla

2 | S18.6-1 | DIFFICULTIES IN COMPARING DIFFUSE SOUND FIELD MEASURES AND DATA/CODE SHARING FOR FUTURE COLLABORATION

Presenter: Jeong Cheol-Ho

09:00 - 09:20

Berzborn Marco, Vorländer Michael

2 | S18.6-2 | INVESTIGATIONS ON THE DIRECTIONAL ENERGY DECAY CURVES IN REVERBERATION ROOMS

Presenter: Berzborn Marco

09:20 - 09:40

Glebe Dag, Larsson Krister

2 | S18.6-3 | EFFECT OF ALTERING THE TEST OBJECT CONFIGURATION IN MEASUREMENTS OF THE ABSORPTION AREA ACCORDING TO ISO 354

Presenter: Glebe Dag Glebe

09:40 - 10:00

Hanyu Toshiki, Hoshi Kazuma, Nakakita Tao

2 | S18.6-4 | ASSESSMENT OF SOUND DIFFUSION IN ROOMS FOR BOTH TIME AND FREQUENCY DOMAIN BY USING A DECAY-CANCELLED IMPULSE RESPONSE

Presenter: Hanyu Toshiki

10:00 - 10:20 *Guidorzi Paolo, Pompoli Francesco, Bonfiglio Paolo, Garai Massimo*
2 | S18.6-5 | SOUND FIELD MEASUREMENTS INSIDE A REVERBERANT ROOM BY MEANS OF A NEW 3D METHOD AND COMPARISON WITH FEM MODEL

Presenter: Guidorzi Paolo

10:20 - 10:40 *Majchrzak Aleksandra, Baruch Katarzyna, Przysucha Bartosz, Szeląg Agata, Kamisiński Tadeusz*

2 | S18.6-6 | EXPERIMENTAL VERIFICATION OF HOW RELATIVE AIR HUMIDITY INFLUENCES THE RESULTS OF SOUND ABSORPTION COEFFICIENT MEASUREMENTS IN MODEL TESTS

Presenter: Majchrzak Aleksandra

Coffee break

11:40 - 12:00 *Balint Jamilla, Nolan Mélanie, Jeong Cheol-Ho, Muralter Florian*

2 | S18.6-7 | ENERGY DECAY CURVES IN REVERBERATION CHAMBERS AND THE INFLUENCE OF SCATTERING OBJECTS ON THE ABSORPTION COEFFICIENT OF A SAMPLE

Presenter: Balint Jamilla

12:00 - 12:20 *Nolan Mélanie, Verburg Samuel A., Jeong Cheol-Ho, Brunskog Jonas, Fernandez-Grande Efren*

2 | S18.6-8 | A WAVENUMBER APPROACH TO QUANTIFYING NON-UNIFORM SOUND INCIDENCE IN MEASUREMENTS OF SOUND ABSORPTION IN THE REVERBERATION CHAMBER

Presenter: Nolan Mélanie

12:20 - 12:40 *Prodi Nicola, Bonfiglio Paolo, Pompoli Francesco, Marescotti Cristina*

2 | S18.6-9 | INVESTIGATING SOUND FIELD DIFFUSION USING THE POLARIZATION OF SOUND INTENSITY

Presenter: Prodi Nicola

12:40 - 13:00 *Nocke Christian*

2 | S18.6-10 | ACOUSTICAL FURNITURE – MEASURING AND MODELLING FOR SIMULATION

Presenter: Nocke Christian

13:00 - 13:20 *Pham Vu Thach, Rivet Etienne, Lissek Hervé*

2 | S18.6-11 | LOW FREQUENCY SOUND FIELD RECONSTRUCTION IN NON-RECTANGULAR ROOM: A NUMERICAL VALIDATION

Presenter: Pham Vu Thach



Lecture room 3

Structured Session 16.2 Rail Traffic Noise and Vibration: modelling and measurement

Organizers: Ard Kuijpers, Stefan Lutzenberger

Chairpersons: Ard Kuijpers, Stefan Lutzenberger

Lecture room 3 | Wednesday 30th May | 09:00 – 13:00

09:00 - 09:20 *Lutzenberger Stefan, Aubin Fabrice, Czolbe Christian, Eichenlaub Christoph, Jones Chris, Letourneaux Fabien, Stegemann Bert*

3 | S16.2-1 | REVISION OF THE EN 15610 - WHEEL ROUGHNESS MEASUREMENTS

Presenter: Lutzenberger Stefan

09:20 - 09:40 *Rasten Elin, Verstappen Ivonne*

3 | S16.2-2 | THE INTERCITY INITIATIVE – RAILWAY DEVELOPMENT IN NORWAY

Presenter: Rasten Elin

09:40 - 10:00 *Moschen Lukas, Fink Josef, Suppin Patrick, Achs Günther, Weiß Bernhard*

3 | S16.2-3 | TOWARDS THE PROBABILISTIC ACOUSTIC ASSESSMENT OF STRUCTURE BORNE SOUND OF RAILWAY BRIDGES

Presenter: Weiß Bernhard

10:00 - 10:20 *Nieuwenhuizen Edwin, Yntema Nils*

3 | S16.2-4 | THE EFFECT OF CLOSE PROXIMITY, LOW HEIGHT NOISE BARRIERS ON RAILWAY NOISE

Presenter: Nieuwenhuizen Edwin

10:20 - 10:40 *Pierre Ropars, Xavier Vuylsteke, Eric Augis*

3 | S16.2-5 | VIBRATIONS INDUCED BY METRO IN SENSITIVE BUILDINGS; EXPERIMENTAL AND NUMERICAL RESULTS

Presenter: Pierre Ropars

Coffee break

11:40 - 12:00 *Aubin Fabrice, Poisson Franck, Chauffour Claire*

3 | S16.2-6 | VIRTUAL CERTIFICATION OF ACOUSTICAL PERFORMANCES OF A RAILWAY VEHICLE

Presenter: Aubin Fabrice

12:00 - 12:20 *Weinandy Rene, Appel Percy*

3 | S16.2-7 | NOISE ABATEMENT ON TRAMWAYS IN URBAN AREAS

Presenter: Weinandy Rene

12:20 - 12:40 *Venghaus Helmut*

3 | S16.2-8 | A ADVANCED MEASUREMENT TECHNIQUE FOR AN APPROPRIATE DETERMINATION OF TDR AT LESS MAINTAINED RAILWAY TRACKS

Presenter: Venghaus Helmut

12:40 - 13:00 *Körper Steffen, Appel Percy, Weinandy Rene*

3 | S16.2-9 | UNOBSERVED LONG-TERM MEASUREMENTS OF RAILWAY NOISE

Presenter: Körper Steffen

Lecture room 4

Structured Session 10.2 Building Acoustics and Health

Organizers: Birgit Rasmussen, Hui Xie

Chairpersons: Birgit Rasmussen, Hui Xie

Lecture room 4 | Wednesday 30th May | 09:00 – 13:00

09:00 - 09:20 *Xie Hui, Liu Junchao, He Yang*

4 | S10.2-1 | THE EFFECTS OF CLASSROOM ACOUSTICS ON PRIMARY AND SECONDARY SCHOOL STUDENTS AND STAFF IN SOUTHWEST CHINA

Presenter: Xie Hui

09:20 - 09:40 *Liu Shanshan, Meng Qi, Kang Jian*

4 | S10.2-2 | EFFECTS OF CHILDREN CHARACTERISTICS ON SOUND ENVIRONMENT IN FAST FOOD RESTAURANTS IN CHINA

Presenter: Liu Shanshan

09:40 - 10:00 *Thomas Pieter, Aletta Francesco, Vander Mynsbrugge Tara, Filipan Karlo, Dijckmans Arne, De Geetere Lieven, Botteldooren Dick, Petrovic Mirko, De Vriendt Patricia, Van De Velde Dominique, de Vos Paul*

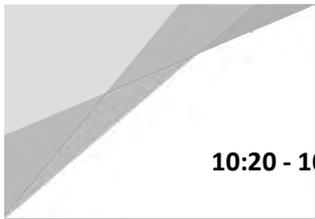
4 | S10.2-3 | EVALUATION AND IMPROVEMENT OF THE ACOUSTIC COMFORT IN NURSING HOMES: A CASE STUDY IN FLANDERS, BELGIUM

Presenter: Thomas Pieter

10:00 - 10:20 *Chen Yuxiao, Yan Xiang, Li Hui, Guo Jing*

4 | S10.2-4 | HUMAN SLEEP IN SILENT ENVIRONMENT: EXPERIMENT AND RESULTS

Presenter: Chen Yuxiao



10:20 - 10:40 *Li Hui, Yan Xiang, Wang Jianghua*

4 | S10.2-5 | EXPERIMENTAL RESEARCH FOR SKULL VIBRATION FROM VOCALIZATION IMPACT ON CEREBROSPINAL FLUID CIRCULATION

Presenter: Li Hui

Coffee break

11:40 - 12:00 *Argalasova Lubica, Mihalcik Ladislav, Filova Alexandra, Vondrova Diana, Babjakova Jana, Samohyl Martin, Jurkovicova Jana*

4 | S10.2-6 | EXPOSURE TO ROAD TRAFFIC NOISE IN NEW RESIDENTIAL BUILDINGS

Presenter: Argalasova Lubica

12:00 - 12:20 *Fu Yao, Xiong Ting, Zhang Yuan*

4 | S10.2-7 | AN INVESTIGATION INTO THE SOUNDSCAPE HARMONY BETWEEN HISTORIC MAUSOLEUM AND MODERN URBAN PARK

Presenter: Zhang Yuan

12:20 - 12:40 *Park Sang Hee, Lee Pyoung Jik*

4 | S10.2-8 | EFFECTS OF INDOOR AND OUTDOOR NOISE ON RESIDENTS' ANNOYANCE AND BLOOD PRESSURE

Presenter: Park Sang Hee

12:40 - 13:00 *Quinn Maria*

4 | S10.2-9 | ACOUSTICS IN OPERATING THEATRES WITH MODULAR BUILDING TECHNIQUE

Presenter: Quinn Maria

Lecture room 5

Structured Session 18.9 Archeo-Acoustics

Organizers: Nikos Barkas, John Mourjopoulos

Chairpersons: Nikos Barkas, John Mourjopoulos

Lecture room 5 | Wednesday 30th May | 09:00 – 13:00

09:00 - 09:20 *Barkas Nikos*

5 | S18.9-1 | ANCIENT GREEK THEATERS: CURRENT OPERATION VS CONTEMPORARY NOISE ENVIRONMENT

Presenter: Barkas Nikos

09:20 - 09:40 *Economou Panos, Economou Costas*

5 | S18.9-2 | THE SIGNIFICANCE OF SOUND DIFFRACTION EFFECTS IN ANCIENT THEATRES – MEASUREMENTS AND SIMULATIONS WITH AND WITHOUT AUDIENCE

Presenter: Economou Panos

09:40 - 10:00 *Boren Braxton*

5 | S18.9-3 | ACOUSTIC SIMULATION OF JULIUS CAESAR'S SPEECH AT THE BATTLE OF PHARSALUS

Presenter: Boren Braxton

10:00 - 10:20 *Rindel Jens Holger, Frederiksen Rune, Vikatou Olympia*

5 | S18.9-4 | THE ACOUSTICS OF THE PI-SHAPED GREEK THEATRE IN KALYDON, AITOLIA

Presenter: Rindel Jens Holger

10:20 - 10:40 *Kaleris Konstantinos, Moiragias George, Kamaris Gavriil, Mourjopoulos John*

5 | S18.9-5 | WAVE-BASED ACOUSTIC MODELING OF EPIDAUROS THEATRE

Presenter: Kaleris Konstantinos

Coffee break

12:00 - 12:20 *Guidorzi Paolo, Vecchietti Erika, Garai Massimo*

5 | S18.9-6 | ARCHAEOLOGICAL 3D MAPPING USING A LOW-COST POSITIONING SYSTEM BASED ON ACOUSTIC WAVES

Presenter: Guidorzi Paolo

12:20 - 12:40 *Yioutsos Nektarios, Kamaris Gavriil, Kaleris Konstantinos, Papadakos Charalambos, Mourjopoulos John*

5 | S18.9-7 | ARCHAEOACOUSTIC RESEARCH ON CAVES DEDICATED TO PAN AND THE NYMPHS IN ATTICA, GREECE

Presenter: Kamaris Gavriil

12:40 - 13:00 *Schubert Gottfried, Kamaris Gavriil, Moraitis Harry, Mourjopoulos John*

5 | S18.9-8 | ACOUSTIC MEASUREMENTS, MODELING AND OPTIMIZATION OF THE MONASTERY CHURCH OF ST. PETER AND PAUL OF THE DOMINICAN ORDER IN HERAKLION, CRETE

Presenter: Kamaris Gavriil



Lecture room 6

Structured Session 12.2 Smart and holistic solutions for acoustic comfort

Organizers: Sergio Luzzi, Giovanni Brambilla

Chairpersons: Sergio Luzzi, Giovanni Brambilla

Lecture room 6 | Wednesday 30th May | 09:00 – 10:00

09:00 - 09:20 *Luzzi Sergio, Bartalucci Chiara, Busa Lucia, Natale Rossella*

6 | S12.2-1 | ACOUSTIC SMARTNESS AND SUSTAINABILITY IN URBAN PLANNING AND BUILDING DESIGN

Presenter: Luzzi Sergio

09:20 - 09:40 *Meelberg Vincent*

6 | S12.2-2 | NARRATIVE SONIC AMBIANCES: DESIGNING POSITIVE AUDITORY ENVIRONMENTS USING NARRATIVE STRATEGIES

Presenter: Meelberg Vincent

09:40 - 10:00 *Dovjak Mateja, Šubic Nika, Prislán Rok, Repše Ana, Kunič Roman*

6 | S12.2-3 | HOLISTIC SOLUTIONS FOR ACOUSTIC COMFORT IN DAY-CARE FACILITIES

Presenter: Šubic Nika

Structured Session 12.3 Active Noise and Vibration Control

Organizers: Arthur Berkhoff

Chairperson: Arthur Berkhoff

Lecture room 6 | Wednesday 30th May | 10:00 – 10:40

10:00 - 10:20 *Kanev Nikolay*

6 | S12.3-1 | ADJUSTABILITY OF ACOUSTIC PROPERTIES OF SURFACES AT LOW FREQUENCIES BY AN ARRAY OF ACTIVE RESONATORS

Presenter: Kanev Nikolay

10:20 - 10:40 *LAURENCE Thomas, BOULANDET Romain, DESARZENS Lionel, LISSEK Hervé*

6 | S12.3-2 | PERSONAL QUIET ZONE THROUGH REMOTE ACOUSTIC IMPEDANCE CONTROL

Presenter: LAURENCE Thomas

Coffee break

Structured Session 17.3 Influence of construction details on sound insulation of light-weight and wooden building

Organizers: Bert Roozen, Herbert Mullner

Chairpersons: Bert Roozen, Herbert Mullner

Lecture room 6 | Wednesday 30th May | 10:40 – 13:20

12:00 - 12:20 *Knittl David, Roozen N.B., Deckers Elke, Müllner Herbert*

6 | S17.3-1 | THE EFFECT OF TIMBER STUD DECOUPLING APPROACHES ON THE TRANSMISSION LOSS OF DOUBLE WALLS; A NUMERICAL STUDY

Presenter: Knittl David

12:20 - 12:40 *Barbaresi Luca, Morandi Federica, Di Nocco Francesca, Speranza Alice, Kumer Niko*

6 | S17.3-2 | SOUND INSULATION AND FLANKING TRANSMISSION IN CLT BUILDINGS: A COMPARISON BETWEEN EXPERIMENTAL MEASUREMENTS AND PREDICTIONS

Presenter: Barbaresi Luca

12:40 - 13:00 *Papaioannou Maria, Karagiannis John, Badogiannis Efstratios, Sotiropoulou Alexandra, Poulakos George*

6 | S17.3-3 | SOUND INSULATION PERFORMANCE OF PREFABRICATED CONCRETE WALL PARTITIONS IN SCHOOL BUILDINGS IN ATHENS

Presenter: Papaioannou Maria

13:00 - 13:20 *Cairolì Maria, Moretti Enrico*

6 | S17.3-4 | SUSTAINABLE RENOVATION IN RESIDENTIAL BUILDINGS THROUGH ACOUSTIC QUALITY: METHODS AND CONSTRUCTION DETAILS IN AN ITALIAN CASE STUDY

Presenter: Cairolì Maria

09:00 - 09:20 *Persson Waye Kerstin, Glebe Dag, Fels Janina, Laith Hussain-Alkhateeb Laith, Fredriksson Sofie, Ögren Mikael*

7 | S18.2-1 | SUPPORTIVE ACOUSTIC QUALITY FOR PRESCHOOLS AND CHILDREN

Presenter: Persson Waye Kerstin



Lecture room 7

Structured Session 18.2 Noise in children facilities

Organizers: Janina Fels, Kerstin Persson-Waye

Chairpersons: Janina Fels, Kerstin Persson-Waye

Lecture room 7 | Wednesday 30th May | 09:00 – 13:00

09:20 - 09:40 *Loh Karin, Fels Janina*

7 | S18.2-2 | BINAURAL PSYCHOACOUSTIC PARAMETERS DESCRIBING NOISE PERCEPTION OF CHILDREN IN COMPARISON TO ADULTS

Presenter: Loh Karin

09:40 - 10:00 *Lyberg-Åhlander Viveka, von Lochow Heike, Karjalainen Suvi, Brännström Jonas, Sahlén Birgitta*

7 | S18.2-3 | ON TEACHERS' VOICE, VOICE CARE AND THE IMPACT OF NOISE AND VOICE ON CHILDREN'S PERFORMANCE

Presenter: Lyberg-Åhlander Viveka

10:00 - 10:20 *Bartalucci Chiara, Borchio Francesco, Carfagni Monica, Lapini Alessandro*

7 | S18.2-4 | A NEW METHODOLOGY TO STUDY THE CHILDREN'S EXPOSURE TO AIRCRAFT NOISE AT SCHOOL

Presenter: Bartalucci Chiara

Coffee break

12:00 - 12:20 *Jeram Sonja, Bažec Bojana, Pavlič Helena, Plut Pregelj Leopoldina*

7 | S18.2-5 | INTERDISCIPLINARY APPROACH TO CONTROLLING NOISE IN CHILDREN'S FACILITIES

Presenter: Jeram Sonja

12:20 - 12:40 *Puglisi Giuseppina Emma, Prato Andrea, Astolfi Arianna, Murgia Silvia, Shtrepi Louena, Sacco Tiziana*

7 | S18.2-6 | ON THE EFFECTS OF CLASSROOM ACOUSTICS AND NOISE ON THE WELL-BEING OF FIRST-GRADERS AT SCHOOL

Presenter: Astolfi Arianna

12:40 - 13:00 *Di Blasio Sonja, Puglisi Giuseppina Emma, Shtrepi Louena, Corbellini Simone, Castellana Antonella, Vannelli Giuseppe, Astolfi Arianna*

7 | S18.2-7 | S&N-S LIGHT: AN INNOVATIVE EDUCATIONAL TOOL THAT CONTROLS CHATting NOISE LEVELS IN CLASSROOMS BY ENCOURAGING PUPILS TO CHANGE THEIR BEHAVIOUR

Presenter: Di Blasio Sonja

Lecture room 8

Structured Session 27.1 Underwater Noise I: Monitoring and modelling of the Ambient Noise

Organizers: Emmanuel Skarsoulis, Michael Taroudakis

Chairpersons: Emmanuel Skarsoulis, Michael Taroudakis

Lecture room 8 | Wednesday 30th May | 09:00 – 13:00

09:00 - 09:20 *Taroudakis Michael, Skarsoulis Emmanuel, Papadakis Panagiotis, Piperakis George*

8 | S27.1-1 | QUIETMED : A EUROPEAN PROJECT AIMING AT THE HARMONIZATION OF THE EUROPEAN STRATEGY ON MARINE AMBIENT NOISE MONITORING

Presenter: Taroudakis Michael

09:20 - 09:40 *Gervaise Cédric, Di Iorio Lucia, Lossent Julie, Bouzidi Medjber, Drira Achraf, Maglio Alessio, Stéphan Yann, Kinda Bazile, Le Courtois Florent*

8 | S27.1-2 | TOWARDS A COMMON FRAMEWORK FOR THE DEVELOPMENT AND THE GROUND-TRUTH CALIBRATION OF MAPPING OF MARINE TRAFFIC UNDERWATER NOISE

Presenter: Lossent Julie

09:40 - 10:00 *Papadakis Panagiotis, Piperakis George, Skarsoulis Emmanuel, Taroudakis Michael, Orfanakis Emmanuel*

8 | S27.1-3 | PILOT EXPERIMENTS FOR MONITORING AMBIENT NOISE IN NORTHERN CRETE

Presenter: Papadakis Panagiotis

10:00 - 10:20 *Skarsoulis Emmanuel, Piperakis Georgios, Orfanakis Emmanuel, Papadakis Panagiotis, Taroudakis Michael*

8 | S27.1-4 | UNDERWATER SHIPPING NOISE PREDICTION IN THE EASTERN MEDITERRANEAN SEA

Presenter: Skarsoulis Emmanuel

10:20 - 10:40 *Dosso Stan, Gosselin Jeremy, Cassidy John*

8 | S27.1-5 | BAYESIAN INVERSION OF SEISMO-ACOUSTIC AMBIENT NOISE FOR ENVIRONMENTAL REMOTE SENSING

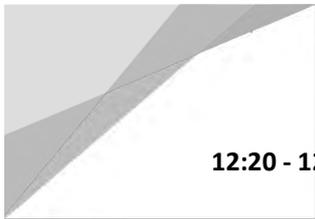
Presenter: Dosso Stan

Coffee break

12:00 - 12:20 *Haralabus Georgios*

8 | S27.1-6 | THE HYDROACOUSTIC COMPONENT OF THE INTERNATIONAL MONITORING SYSTEM TOGETHER WITH CIVIL AND SCIENTIFIC APPLICATIONS OF CTBTO DATA

Presenter: Haralabus Georgios



12:20 - 12:40

Lossent Julie, Gervaise Cédric, Di Iorio Lucia, Bourdon Raphael, Clec'h Didier, Lejart Morgane

8 | S27.1-7 | THREE-DIMENSIONAL SOUNDSCAPE OF A TIDAL SITE (RAZ BLANCHARD, FRANCE): BENTHIC BIOPHONY & BED LOAD TRANSPORT GEOPHONY

Presenter: Lossent Julie

12:40 - 13:00

Gavrilov Alexander, McCauley Robert, Zhang Zhi Yong

8 | S27.1-8 | SEASONAL VARIATION OF UNDERWATER NOISE OVER THE NORTHERN PART OF THE NORTHWEST SHELF OF AUSTRALIA

Presenter: Zhang Yong

Lecture room 9

Regular Session 15 Noise mapping

Chairperson: Saša Ahac

Lecture room 9 | Wednesday 30th May | 09:00 – 10:40

09:00 - 09:20

Ahac Saša, Ahac Maja, Dragčević Vesna, Lakušić Stjepan

9 | S15-1 | INPUT DATA COMPLEXITY IN RAILWAY TRAFFIC NOISE MODELING: CASE STUDY OF RAILWAY LINE M604 OŠTARIJE – GOSPIĆ – KNIN – SPLIT

Presenter: Ahac Saša

09:20 - 09:40

Cenček Špela, Markun Alenka

9 | S15-2 | DIFFERENCES IN NOISE MODELLING IN SLOVENIA

Presenter: Cenček Špela

09:40 - 10:00

Koshurnikov Dmitrii

9 | S15-3 | ZONING OF URBAN AREAS TO HIGHLIGHT THE RISK LEVELS OF HEALTH VIOLATIONS INDUCED BY ENVIRONMENTAL MAN-CAUSED NOISE

Presenter: Koshurnikov Dmitrii

10:00 - 10:20

Lolkema Dorien, de Gruijter Dolf, Bergmans Dick

9 | S15-4 | END-MAPPING BUILDING BLOCK ENVIRONMENTAL NOISE INFORMATION IN THE NETHERLANDS

Presenter: Lolkema Dorien

10:20 - 10:40

Bite Pal, Silló Szabolcs

9 | S15-5 | LONG-TERM NOISE MONITORING AND DYNAMIC NOISE MAPPING

Presenter: Silló Szabolcs

Lecture room 10

Structured Session 7.1 Advances on numerical methods for computational acoustics

Organizers: Manfred Kaltenbacher, Maarten Hornikx

Chairpersons: Manfred Kaltenbacher, Maarten Hornikx

Lecture room 10 | Wednesday 30th May | 09:00 – 10:40

09:00 - 09:20 *Kaltenbacher Manfred, Hüppe Andreas*

10 | S7.1-1 | ADVANCED FINITE ELEMENT FORMULATION FOR THE CONVECTIVE WAVE EQUATION

Presenter: Kaltenbacher Manfred

09:20 - 09:40 *Cutanda Henriquez Vicente, Barrera Figueroa Salvador, Risby Andersen Peter*

10 | S7.1-2 | MODELING OF SEVERAL MEASUREMENT CONDENSER MICROPHONES USING THE BOUNDARY ELEMENT METHOD

Presenter: Cutanda Henriquez Vicente

09:40 - 10:00 *Dogan Hakan, Ochmann Martin, Eisenmenger Chris, Frank Stefan*

10 | S7.1-3 | HYBRID CFD/FEM CALCULATIONS OF AEROACOUSTIC NOISE RADIATED FROM A RADIAL FAN

Presenter: Dogan Hakan

10:00 - 10:20 *Waubke Holger, Kasess Christian*

10 | S7.1-4 | TRANSIENT RESPONSE OF A MULTI-STOREY FRAME WITH HYSTERETIC BEHAVIOUR TO WHITE NOISE EXCITATION

Presenter: Waubke Holger

10:20 - 10:40 *Munz Claus-Dieter, Kempf Daniel, Beck Andrea, Kuhn Thomas*

10 | S7.1-5 | DIRECT SIMULATION OF AEROACOUSTIC FEEDBACK

Presenter: Munz Claus-Dieter

Coffee break



Structured Session 11.5 Measurement of Airborne Ultrasound: Methods and Standards

Organizers: Salvador Barrera Figueroa

Chairperson: Salvador Barrera Figueroa

Lecture room 10 | Wednesday 30th May | 12:00 – 13:00

12:00 - 12:20 *Barrera-Figueroa Salvador*

10 | S11.5-1 | ESTABLISHING TRACEABILITY FOR AIRBORNE ULTRASOUND MEASUREMENTS

Presenter: Barrera-Figueroa Salvador

12:20 - 12:40 *Kling Christoph, Wächtler Moritz, Koch Christian*

10 | S11.5-2 | ULTRASOUND LEVEL METER FOR PRACTICAL USE IN OCCUPATIONAL HEALTH AND SAFETY

Presenter: Kling Christoph

12:40 - 13:00 *Wolff Andrea, Ullisch-Nelken Christian, Schöneweiß Robert, Kling Christoph*

10 | S11.5-3 | MEASUREMENT METHOD FOR THE ASSESSMENT OF AIRBORNE ULTRASOUND IN AN OCCUPATIONAL CONTEXT

Presenter: Wolff Andrea

Thursday 31st May, 2018

Lecture room 1

Structured Session 21.1 Source localization and acoustic array processing

Organizers: Efren Fernandez Grande, Maximo Cobos, Boaz Rafaely

Chairpersons: Efren Fernandez Grande, Maximo Cobos, Boaz Rafaely

Lecture room 1 | Thursday 31st May | 09:00 – 10:40

09:00 - 09:20 *Kumari Deepika , Kumar Lalan*

1 | S21.1-1 | ACOUSTIC SOURCE LOCALIZATION IN HEMISPHERICAL HARMONICS DOMAIN

Presenter: Kumari Deepika

09:20 - 09:40 *Lopez Jose J., Martinez Sergio, Gutierrez-Parera Pablo*

1 | S21.1-2 | ARRAY PROCESSING FOR ECHO CANCELLATION IN THE MEASUREMENT OF HEAD-RELATED TRANSFER FUNCTIONS

Presenter: Lopez Jose J.

09:40 - 10:00 *Maymon Yanir, Schymura Christopher, Kolossa Dorothea, Rafaely Boaz*

1 | S21.1-3 | STUDY OF SPEAKER LOCALIZATION IN A ROOM WITH CIRCULAR AZIMUTH MODELING

Presenter: Rafaely Boaz

10:00 - 10:20 *Tourbabin Vladimir, Alon David, Mehra Ravish*

1 | S21.1-4 | SPACE DOMAIN-BASED SELECTION OF DIRECT-SOUND BINS IN THE CONTEXT OF IMPROVED ROBUSTNESS TO REVERBERATION IN DIRECTION OF ARRIVAL ESTIMATION

Presenter: Tourbabin Vladimir

10:20 - 10:40 *Gombots Stefan, Kaltenbacher Manfred, Kaltenbacher Barbara*

1 | S21.1-5 | INVERSE SCHEME FOR ACOUSTIC SOURCE LOCALIZATION IN 3D

Presenter: Gombots Stefan

Coffee break



Regular Session 7 Computational Acoustics

Chairperson: Panagiotis Papadakis

Lecture room 1 | Thursday 31st May | 11:00 – 12:40

11:00 - 11:20 *Hamiche Karim, Bériot Hadrien, Gabard Gwénaél, Le Bras Sophie*

1 | S7-1 | APPLICATION OF A COUPLED HIGH-ORDER FEM SOLVER TO AEROENGINE EXHAUST NOISE

Presenter: Hamiche Karim

11:20 - 11:40 *Pandey Prabhanshu, Kumar Lalan, Agarwala Naresh K. , Lall Brejesh , Prasad Surendra*

1 | S7-2 | TRUNCATED SPHERE NOISE FIELD MODELING FOR ACOUSTIC APPLICATIONS

Presenter: Kumari Deepika

11:40 - 12:00 *Papadakis Nikolaos M., Stavroulakis Georgios E.*

1 | S7-3 | EFFECT OF MESH SIZE FOR MODELING IMPULSE RESPONSES OF ACOUSTIC SPACES VIA FINITE ELEMENT METHOD IN THE TIME DOMAIN

Presenter: Papadakis Nikolaos M.

12:00 - 12:20 *Rumpler Romain, Göransson Peter*

1 | S7-4 | A MULTIVARIATE, WELL-CONDITIONED ASYMPTOTIC WAVEFORM EVALUATION FOR FINITE ELEMENT SOLUTIONS WITH COMPLEX PARAMETRIC DEPENDENCE

Presenter: Rumpler Romain

12:20 - 12:40 *Abramova Karina, Honzík Petr, Joly Nicolas, Durand Stéphane, Bruneau Michel*

1 | S7-5 | MODELLING OF A MEMS TRANSDUCER WITH A SQUARE PLATE LOADED BY A THIN FLUID LAYER

Presenter: Abramova Karina

Lecture room 2

Structured Session 17.6 Predicting vibration, impact and structure-borne sound in buildings

Organizers: Michel Villot, Barry Gibbs

Chairpersons: Michel Villot, Barry Gibbs

Lecture room 2 | Thursday 31st May | 08:40 – 12:40

08:40 - 09:00 *Gibbs Barry*

2 | S17.6-1 | RECEPTION PLATE METHOD FOR TONAL VIBRO-ACOUSTIC SOURCES IN BUILDINGS.

Presenter: Gibbs Barry

09:00 - 09:20 *Reinhold Steffi, Hopkins Carl, Seiffert Gary*

2 | S17.6-2 | ESTIMATING MAXIMUM FAST TIME-WEIGHTED VIBRATION LEVELS FROM SHORT EQUIVALENT CONTINUOUS VIBRATION LEVEL MEASUREMENTS OF STRUCTURE-BORNE SOUND SOURCES ON HEAVYWEIGHT PLATES

Presenter: Reinhold Steffi

09:20 - 09:40 *Lietzén Jesse, Miettinen Juha, Kylliäinen Mikko, Pajunen Sami*

2 | S17.6-3 | MEASUREMENTS OF IMPACT FORCE EXCITATION ON WOODEN FLOORS

Presenter: Lietzén Jesse

09:40 - 10:00 *Bailhache Simon, Colin Stéphanie, Ducruet Pascal, Guigou-Carter Catherine*

2 | S17.6-4 | CHARACTERIZATION OF A WATER DRAINAGE PIPE USING THE EN 14366 AND EN 15657 METHODS

Presenter: Bailhache Simon

10:00 - 10:20 *Wolff Oliver, Förster Joachim*

2 | S17.6-5 | SANITARY INSTALLATIONS IN BUILDINGS – NOISE CONTRIBUTION ANALYSIS WITH SENSOR ARRAYS AND LASER SCANNING VIBROMETRY

Presenter: Wolff Oliver

10:20 - 10:40 *Villot Michel*

2 | S17.6-6 | PREDICTING SOUND LEVELS GENERATED ON SITE BY STRUCTURE-BORNE SOUND SOURCES IN BUILDINGS

Presenter: Villot Michel

Coffee break

11:00 - 11:20 *Mayr Andreas, Schöpfer Fabian, Schanda Ulrich, Hopkins Carl*

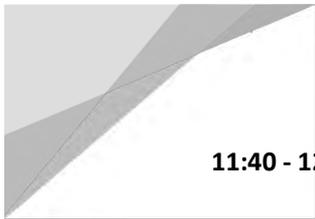
2 | S17.6-7 | MEASUREMENT AND PREDICTION OF STRUCTURE-BORNE SOUND TRANSMISSION FROM MACHINERY IN TIMBER-FRAME BUILDINGS

Presenter: Mayr Andreas

11:20 - 11:40 *Rogers Peter, Matherson Chris, Woodhams Sebastian, Rubio Sara*

2 | S17.6-8 | STANDARDISING STRUCTURE-BORNE NOISE ASSESSMENTS WITH HEAVY IMPACTS FOR POTENTIAL GYMS IN LIGHTWEIGHT MIXED USE STRUCTURES

Presenter: Woodhams Sebastian



11:40 - 12:00

Trévisan Benjamin, Grau Loïc, Bozzetto Denis, Villot Michel, Jean Philippe

2 | S17.6-9 | IN-SITU PERFORMANCES PREDICTION OF BASE-ISOLATED BUILDINGS

Presenter: Grau Loïc

12:00 - 12:20

Glé Philippe, Blinet Thibaut, Guigou-Carter Catherine

2 | S17.6-10 | ACOUSTIC PERFORMANCE PREDICTION FOR BUILDING ELEMENTS INCLUDING BIOBASED FIBROUS MATERIALS

Presenter: Glé Philippe

12:20 - 12:40

GUO Yifu, DESCELIERS Christophe, COGUENANFF Corentin, GUIGOU-Carter Catherine

2 | S17.6-11 | ESTIMATION OF COUPLING POWER PROPORTIONALITY FOR THE SEA OF HIGHLY DISSIPATIVE DYNAMICAL SYSTEM IN MEDIUM-HIGH FREQUENCY DOMAIN

Presenter: GUO Yifu

Lecture room 3

Structured Session 16.2 Rail Traffic Noise and Vibration: modelling and measurement

Organizers: Ard Kuijpers, Stefan Lutzenberger

Chairpersons: Ard Kuijpers, Stefan Lutzenberger

Lecture room 3 | Thursday 31st May | 08:40 – 12:40

08:40 - 09:00

Aasen Trygve

3 | S16.2-1 | A NORWEGIAN APPROACH FOR PLANNING AND MODELING OPTIMIZATION

Presenter: Aasen Trygve

09:00 - 09:20

Pieren Reto, Lauper Demian, Heutschi Kurt

3 | S16.2-2 | DEMONSTRATOR FOR RAIL VEHICLE PASS-BY EVENTS

Presenter: Pieren Reto

09:20 - 09:40

Fast Dennis, Kirchner Karl-Richard, Kohrs Torsten, Vallespin Alberto, Sapena Joan, Guiral Garcia Ainara, Martner Otto

3 | S16.2-3 | SOUND PROPAGATION AND DISTRIBUTION AROUND TYPICAL TRAIN CARBODY STRUCTURES

Presenter: Kirchner Karl-Richard

09:40 - 10:00 *LETOURNEAUX Fabien, Fodiman Pascal, Trolle Benoît, Oger Pascal*

3 | S16.2-4 | TOWARDS THE IMPLEMENTATION OF AN ACOUSTIC PERFORMANCE SCHEME IN THE INDUSTRIAL RAIL GRINDING PROCESS

Presenter: LETOURNEAUX Fabien

10:00 - 10:20 *Byrne Stephen*

3 | S16.2-5 | REDUCTIONS IN ENVIRONMENTAL NOISE EMISSIONS FROM DUBLIN'S LIGHT RAIL SYSTEM FOLLOWING A RAIL GRINDING CAMPAIGN ON EMBEDDED TRACK

Presenter: Byrne Stephen

10:20 - 10:40 *Grau Loïc, Trévisan Benjamin, Bozzetto Denis, Laulagnet Bernard*

3 | S16.2-6 | MODELLING OF A RAILWAY PLATFORM ON AN ELASTOMERIC MATS USING SEMI-ANALYTICAL FORMULATION

Presenter: Grau Loïc

Coffee break

11:00 - 11:20 *Zea Elias, Lopez Arteaga Ines*

3 | S16.2-7 | SIMPLIFIED WAVE SIGNATURE EXTRACTION METHOD FOR RAIL CONTRIBUTION ESTIMATIONS

Presenter: Zea Elias

11:20 - 11:40 *Jansen Erwin, Peen Jasper*

3 | S16.2-8 | ACOUSTIC EFFECTS OF NEW LOW-NOISE WHEEL DESIGNS AND BRAKE BLOCKS ON AN INTERCITY TRAIN

Presenter: Jansen Erwin

11:40 - 12:00 *Schwanen Wout, Yntema Nils, Wijnand Ysbrand*

3 | S16.2-9 | WHISSWALL, A SOUND DIFFRACTOR ON A LOW HEIGHT NOISE BARRIER: EXPERIMENTAL TESTING

Presenter: Schwanen Wout

12:00 - 12:20 *Huhtala Timo, Ruohonen Mikael, Kylliäinen Mikko*

3 | S16.2-10 | REDUCING TRAIN INDUCED GROUND-BORNE VIBRATIONS WITH DEEP STABILIZATION - TECHNICAL AND ECONOMICAL FEASIBILITY

Presenter: Huhtala Timo



12:20 - 12:40 *Rees Jerry, Gomez-Agustina Luis*

3 | S16.2-11 | ASSESSMENT OF GROUND-BORNE VIBRATION FROM UNDERGROUND TRAINS ON A PROPOSED RESIDENTIAL DEVELOPMENT

Presenter: Rees Jerry

Lecture room 4

Structured Session 29.1 Port Noise

Organizers: Henk Wolfert

Chairperson: Henk Wolfert

Lecture room 4 | Thursday 31st May | 09:00 – 11:40

09:00 - 09:20 *Wolfert Henk, Witte Rob*

4 | S29.1-1 | NEPTUNES, MITIGATING NOISE FROM SEA-GOING VESSELS AT BERTH

Presenter: Wolfert Henk

09:20 - 09:40 *Witte Rob*

4 | S29.1-2 | NOISE FROM MOORED SHIPS: NEPTUNES MEASUREMENT PROTOCOL

Presenter: Witte Rob

09:40 - 10:00 *Nencini Luca, Cerniglia Andrea, Cutugno Paola, Guerra Stefan, Lazzaroni Monica, Magrini Anna, Marconi Lucia*

4 | S29.1-3 | TRIPLO: AN INNOVATIVE APPROACH TO PORT NOISE MANAGEMENT

Presenter: Nencini Luca

10:00 - 10:20 *Santander Alvaro, Aspuru Itziar, Fernandez Pilar*

4 | S29.1-4 | OPS MASTER PLAN FOR SPANISH PORTS PROJECT. STUDY OF POTENTIAL ACOUSTIC BENEFITS OF ON-SHORE POWER SUPPLY AT BERTH

Presenter: Santander Alvaro

Coffee break

11:00 - 11:20 *Alsina-Pagès Rosa Ma, Socoró Joan Claudi, Barqué Sergi*

4 | S29.1-5 | SURVEY OF ENVIRONMENTAL NOISE IN THE PORT OF BARCELONA

Presenter: Alsina-Pagès Rosa Ma

11:20 - 11:40 *Chonianaki Fotini, Kountouras Merkourios*

4 | S29.1-6 | MANAGEMENT OF THE ENVIRONMENTAL NOISE IMPACT OF MAJOR PORTS LOCATED IN SEAFRONT AGGLOMERATIONS: EXPERIENCES AND PROPOSALS BASED ON THE PORT OF PIRAEUS CASE STUDY

Presenter: Kountouras Merkourios

Regular Session 29 Community Noise

Chairperson: Henk Wolfert

Lecture room 4 | Thursday 31st May | 11:40 – 12:40

11:40 - 12:00 *Naim Faridah, Fecht Daniela, Hansell Anna, Gulliver John*

4 | S29-1 | ASSESSMENT OF RESIDENTIAL EXPOSURE TO AIRCRAFT, ROAD TRAFFIC AND RAILWAY NOISE IN LONDON: RELATIONSHIP OF INDOOR AND OUTDOOR NOISE

Presenter: Naim Faridah

12:00 - 12:20 *Vassiliadis Vassilis, Antonopoulou Eleni*

4 | S29-2 | RESPOSE FUNCTIONS FOR ENVIRONMENTAL NOISE BEFORE AND AFTER THE ECONOMY CRISIS IN GREECE: THE CASE OF THESSALONIKI

Presenter: Vassiliadis Vassilis

12:20 - 12:40 *Waldock Jacqueline*

4 | S29-3 | HEARING CHANGE: INVESTIGATING THE SONIC CHALLENGES TO COMMUNITY LIFE IN AREAS OF REGENERATION .

Presenter: Waldock Jacqueline

Lecture room 5

Structured Session 18.8 Recent trends in numerical modeling in performance spaces : protocols and reliability

Organizers: Dario D'Orazio, Brian Hamilton

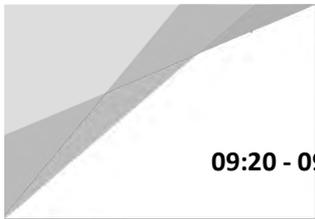
Chairpersons: Dario D'Orazio, Brian Hamilton

Lecture room 5 | Thursday 31st May | 09:00 – 12:40

09:00 - 09:20 *Stephenson Uwe M.*

5 | S18.8-1 | SIMULATION OF MULTIPLE SOUND PARTICLE DIFFRACTION BASED ON THE UNCERTAINTY RELATION - A REVOLUTION IN NOISE IMMISSION PROGNOSIS; PART I: PRINCIPLE AND METHOD

Presenter: Stephenson Uwe M.



09:20 - 09:40

Weigand Stefan, Stephenson Uwe, Schaal Jochen

5 | S18.8-2 | SIMULATION OF MULTIPLE SOUND PARTICLE DIFFRACTION BASED ON THE UNCERTAINTY RELATION - A REVOLUTION IN NOISE IMMISSION PROGNOSIS; PART II: EVALUATION BY MEASUREMENTS

Presenter: Weigand Stefan

09:40 - 10:00

Pind Finnur, Staugaard Mejling Mikael, Engsig-Karup Allan P., Jeong Cheol-Ho, Strømmand-Andersen Jakob

5 | S18.8-3 | ROOM ACOUSTIC SIMULATIONS USING HIGH ORDER SPECTRAL ELEMENT METHODS

Presenter: Pind Finnur

10:00 - 10:20

Svensson U. Peter, Martin Sara R., Summers Jason E., Teres Blake H., Slechta Jan, Gaumond Charles F.

5 | S18.8-4 | ACCURACY ASPECTS OF DIFFRACTION-BASED COMPUTATION OF SCATTERING

Presenter: Svensson U. Peter

10:20 - 10:40

Economou Panos, Economou Costas

5 | S18.8-5 | REVERBERATION TIME (RT) CALCULATION BASED ON ROOM MODAL DECAY AND USING WAVE BASED GEOMETRICAL ACOUSTICS (WBGA) AND MODAL PARAMETER ESTIMATION

Presenter: Economou Panos

Coffee break

11:00 - 11:20

Katz Brian FG, Postma Barteld, Thery David, Poirier-Quinot David, Luizard Paul

5 | S18.8-6 | OBJECTIVE AND PERCEPTIVE EVALUATIONS OF HIGH-RESOLUTION ROOM ACOUSTIC SIMULATIONS AND AURALIZATIONS

Presenter: Katz Brian FG

11:20 - 11:40

Fratoni Giulia, D'Orazio Dario, Garai Massimo

5 | S18.8-7 | PREDICTIONS OF ROOM AND INTELLIGIBILITY CRITERIA IN LECTURE HALLS

Presenter: Fratoni Giulia

11:40 - 12:00

Shtrepi Louena, Astolfi Arianna, Masoero Marco

5 | S18.8-8 | SCATTERING SURFACE MODELLING IN GEOMETRICAL ACOUSTIC MODELS

Presenter: Shtrepi Louena

12:00 - 12:20 *Schlesinger Anton, Kimmich Jan-Michael, Ochmann Martin, Frank Stephan*

5 | S18.8-9 | CONTROLLING MULTIPLE ACOUSTIC OBJECTIVES DURING THE IMPLEMENTATION OF THE EUROPEAN DIRECTIVE 2003/10/EC AT AN OPERA HOUSE

Presenter: Schlesinger Anton

12:20 - 12:40 *Mirra Gabriele, Pignatelli Eduardo , Di Rosario Serafino*

5 | S18.8-10 | AN AUTOMATED DESIGN METHODOLOGY FOR ACOUSTIC SHELLS IN OUTDOOR CONCERTS

Presenter: Di Rosario Serafino

Lecture room 6

Structured Session 14.2 Harmonisation of classroom acoustics standards in Europe

Organizers: Massimo Garai, Christian Nocke, Arianna Astolfi

Chairpersons: Massimo Garai, Christian Nocke, Arianna Astolfi

Lecture room 6 | Thursday 31st May | 09:00 – 12:20

09:00 - 09:20 *Astolfi Arianna, D'Orazio Dario, Parati Linda, Garai Massimo*

6 | S14.2-1 | A NEW ACOUSTIC STANDARD ON CLASSROOM ACOUSTICS IN ITALY

Presenter: Astolfi Arianna

09:20 - 09:40 *Nocke Christian*

6 | S14.2-2 | DIN 18041 - A GERMAN VIEW

Presenter: Nocke Christian

09:40 - 10:00 *Lang Markku*

6 | S14.2-3 | ACTIVE LEARNING IN MODERN SCHOOLS

Presenter: Lang Markku

10:00 - 10:20 *Oberkalmsteiner Richard, Canale Giuseppe, Verdi Luca*

6 | S14.2-4 | APPLYING DIFFERENT ACOUSTICAL STANDARDS IN SOUTH TYROLEAN SCHOOLS

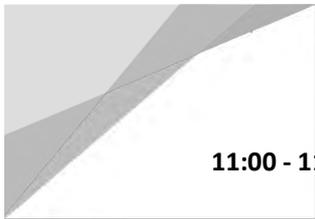
Presenter: Oberkalmsteiner Richard

10:20 - 10:40 *Shield Bridget, Richardson Russell*

6 | S14.2-5 | REGULATION OF SCHOOL ACOUSTIC DESIGN IN THE UK: RECENT REVISION OF BUILDING AND SCHOOL PREMISES REGULATIONS AND THEIR APPLICATION

Presenter: Shield Bridget

Coffee break



11:00 - 11:20 *Ploetzner Thomas, Uygun Abidin*

6 | S14.2-6 | LESS SOUND ABSORPTION IS (ALMOST) JUST AS GOOD - PRACTICAL COMPARISON IN CLASSROOMS

Presenter: Ploetzner Thomas

11:20 - 11:40 *Schöner Georg*

6 | S14.2-7 | IMPORTANCE OF SOUND ABSORPTION IN LEARNING ENVIRONMENTS AND VARYING REGULATIONS IN SCANDINAVIAN COUNTRIES

Presenter: Schöner Georg

11:40 - 12:00 *Tiesler Gerhart*

6 | S14.2-8 | INFLUENCE OF CLASSROOM ACOUSTICS ON PEDAGOGIC PROCESS

Presenter: Tiesler Gerhart

Lecture room 7

Structured Session 13.1 Noise Barriers, absorptive claddings and diffractive barrier tops

Organizers: Jean-Pierre Clairbois, Massimo Garai

Chairpersons: Jean-Pierre Clairbois, Massimo Garai

Lecture room 7 | Thursday 31st May | 09:00 – 12:20

09:00 - 09:20 *Roozen N.B., Glorieux Christ, Meganck David, Houtave Peter, Clairbois Jean-Pierre*

7 | S13.1-1 | ON THE REPRODUCIBILITY OF AIRBORNE SOUND INSULATION MEASUREMENTS OF NOISE BARRIERS; A CASE STUDY

Presenter: Roozen N.B.

09:20 - 09:40 *Fuchs Andreas, Conter Marco, Wehr Reinhard*

7 | S13.1-2 | INFLUENCE OF THE REFERENCE POSITION ON THE MEASURED SOUND REFLECTION FOR FLAT HOMOGENOUS NOISE BARRIERS

Presenter: Fuchs Andreas

09:40 - 10:00 *Nikolaou Petros, Menounou Penelope*

7 | S13.1-3 | COMPUTATIONALLY EFFICIENT CALCULATION OF EDGE DIFFRACTION IN TIME DOMAIN

Presenter: Nikolaou Petros

Coffee break

11:00 - 11:20 *Garai Massimo, Morandi Federica, Brero Giovanni*

7 | S13.1-4 | NOISE BARRIERS: SUSTAINABILITY ASSESSMENT VS ACOUSTIC PERFORMANCE

Presenter: Garai Massimo

11:20 - 11:40 Szabó Daniel, Šujanová Paulína, Glorieux Christ, Rychtáriková Monika

7 | S13.1-5 | IMPACT OF BUILDING FAÇADE PROPERTIES ON NOISE LEVELS IN STREET CANYONS

Presenter: Szabó Daniel

11:40 - 12:00 Peiró-Torres María del Pilar, Castiñeira-Ibáñez Sergio, Bravo Jose María, Ferri Marcelino, Redondo Javier, Vea-Folch Francisco José, Ballester-Ramos Mireia, Sánchez-Pérez Juan Vicente

7 | S13.1-6 | DESIGN AND TECHNOLOGICAL ADAPTATION OF AN ACOUSTIC SCREEN BASED ON SONIC CRYSTALS TO PLACE IT IN REAL ENVIRONMENTS

Presenter: Peiró-Torres M^a del Pilar

12:00 - 12:20 Peiró-Torres María del Pilar, Parrilla-Navarro Manuel, Bravo José María, Ferri Marcelino, Sánchez-Pérez Juan Vicente, Redondo Javier

7 | S13.1-7 | SONIC CRYSTALS ACOUSTIC SCREENS WITH DIFFUSION PROPERTIES

Presenter: Peiró-Torres María del Pilar

Lecture room 8

Structured Session 27.2 Underwater Noise II: Sources and remote sensing of the marine environment

Organizers: Emmanuel Skarsoulis, Michael Taroudakis

Chairpersons: Emmanuel Skarsoulis, Michael Taroudakis

Lecture room 8 | Thursday 31st May | 09:00 – 10:40

09:00 - 09:20 Vladimir Nikola, Hadzic Neven, Gligora Goran

8 | S27.2-1 | PREDICTION OF NOISE LEVELS ON BOARD SELF-PROPELLED CUTTER SUCTION DREDGER BY HYBRID SEA

Presenter: Vladimir Nikola

09:20 - 09:40 Drira Achraf, Bouzidi Medjber, Maglio Alessio, Pavan Gianni

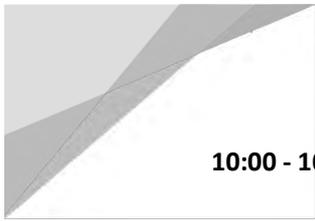
8 | S27.2-2 | MODELLING UNDERWATER SOUND FIELDS FROM NOISE EVENTS CONTAINED IN THE ACCOBAMS IMPULSIVE NOISE REGISTER TO ADDRESS CUMULATIVE IMPACT AND ACOUSTIC POLLUTION ASSESSMENT

Presenter: Drira Achraf

09:40 - 10:00 Belibassakis Kostas

8 | S27.2-3 | A VELOCITY-BASED BEM FOR MODELING GENERATION AND PROPAGATION OF UNDERWATER NOISE FROM MARINE PROPELLERS

Presenter: Belibassakis Kostas



10:00 - 10:20

Athanassoulis Gerassimos, Belibassakis Kostas, Gerostathis Theodoros, Prospathopoulos Aris

8 | S27.2-4 | A SOFTWARE TOOL FOR ESTIMATING SHIPPING NOISE FOOTPRINT WITH APPLICATION TO SOUTH ADRIATIC – IONIAN SEA

Presenter: Belibassakis Kostas

10:20 - 10:40

Lossent Julie, Gervaise Cédric, Gay Michel, Chauvaud Laurent, Jolivet Aurélie, Mars Jérôme, Amice Erwan, Chauvaud Sylvain, Olivier Frédéric, Sejr Mikael

8 | S27.2-5 | POLAR COASTAL SOUNDSCAPES: TRACKING OF DRIFTING ICEBERGS WITH A COMPACT SENSOR ARRAY

Presenter: Lossent Julie

Coffee break

Regular Session 1 Absorbing Materials

Chairperson: Milan Cervenka

Lecture room 8 | Thursday 31st May | 11:00 – 12:00

11:00 - 11:20

Cooper Steven

8 | S1-1 | THE NEGATIVE COEFFICIENT OF BRUEL & KJAER GREEN PAINT

Presenter: Cooper Steven

11:20 - 11:40

Cervenka Milan, Bednarik Michal, Zielinski Tomasz G.

8 | S1-2 | DIRECT NUMERICAL SIMULATION OF SOUND ABSORPTION IN POROUS MEDIA

Presenter: Cervenka Milan

Lecture room 9

Regular Session 6 Auralization

Chairperson: Mike Stinson

Lecture room 9 | Thursday 31st May | 09:00 – 10:40

09:00 - 09:20

Fu Yang, Murphy Damian

9 | S6-1 | A COMPARATIVE OVERVIEW OF TRAFFIC FLOW MODELLING APPROACHES FOR AURALISATION

Presenter: Fu Yang

09:20 - 09:40

Georgiou Fotis, Hornikx Maarten, Kohlrausch Armin

9 | S6-2 | AURALIZATION OF A CAR PASS-BY USING MEASURED AND SIMULATED IMPULSE RESPONSES.

Presenter: Georgiou Fotis

09:40 - 10:00 *Kruh-Elendt André, Fiebig André, Sottek Roland*

9 | S6-3 | SPATIAL AUDIO PRODUCTIONS USING DIFFERENT SETS OF HRTFS

Presenter: Kruh-Elendt André

10:00 - 10:20 *Meng Fanyu, Georgiou Fotis, Stienen Jonas, Hornikx Maarten, Vorländer Michael*

9 | S6-4 | A CONCEPT OF AURALIZING URBAN PASS-BY VEHICLES BY MEASUREMENT- AND SIMULATION-BASED SYNTHESIS OF SOUND SOURCES AND IMPULSE RESPONSES

Presenter: Meng Fanyu

10:20 - 10:40 *Muhammad Imran, Heimes Anne, Vorländer Michael*

9 | S6-5 | AURALIZATION OF AIRBORNE SOUND TRANSMISSION AND FRAMEWORK FOR SOUND INSULATION FILTER RENDERING

Presenter: Muhammad Imran

Poster session

09:00 - 12:40 *Tsuruha Takumasa*

0 | S1-1 | SOUND ABSORBING CHARACTERISTICS OF GRANULAR MATERIAL MULTI-DIVIDED BY MEMBRANES SUPPORTED BY RIGID FRAME

Presenter: Tsuruha Takumasa

09:00 - 12:40 *Bouzek Stanislav, Turecek Oldrich*

0 | S1-2 | POSSIBILITIES OF VERIFYING THE PARAMETERS OF THE ABSORBING ELEMENTS USING THE LOUDSPEAKER

Presenter: Bouzek Stanislav

09:00 - 12:40 *Barbosa de Sá Bruno Guilherme, de Ulhôa Carvalho Maria Luiza, Gonçalves de Almeida Jaime*

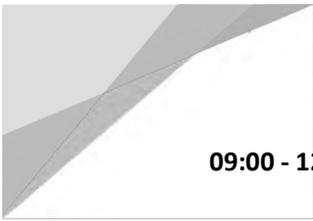
0 | S1-3 | ANALYSIS OF THE RESULTS OF THE SOUND ABSORPTION COEFFICIENT FOR LOW FREQUENCIES OF LAMINATE BAMBOO RESONANT MEMBRANE PANELS

Presenter: Barbosa de Sá Bruno Guilherme

09:00 - 12:40 *Radosz Jan*

0 | S13-1 | DESIGN OF NOISE BARRIER BASED ON PHONONIC CRYSTALS WITH RESONANT ELEMENTS

Presenter: Radosz Jan



09:00 - 12:40

Zervas Panagiotis, Bakarezos Efthimios, Movsesian Ara, Papadogiannis Nektarios

0 | S9-1 | EVALUATING SPEECH CONTENT USING REMOTE SOUND SENSING TECHNIQUES

Presenter: Zervas Panagiotis

09:00 - 12:40

Cuyt Annie, Lee Wen-shin, Tijskens Engelbert, Hong Wen-Ling, Wang Jr-Ping, Cools Tim, Geerts Tim

0 | S27-1 | SUPERRESOLUTION UNDERWATER ACOUSTICS

Presenter: Cuyt Annie

Closing

Lecture room 1 | Thursday 31st May | 12:40 – 13:40

