



FINAL PROGRAM



| MONDAY, 25th OCTOBER | | | | | | | | | | |
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| | ID | ROOM MADEIRA (room 1) | ID | ROOM FUNCHAL (room 2) | ID | ROOM PORTO SANTO (room 3) | ID | ROOM MACHICO (room 4) | ID | ROOM PORTO MONIZ (room 5) |
| 10:00 | | OPENING SESSION | | | | | | | | |
| | | SS10: Exp. and num. approaches for the characterisation of (building) struct. and mats; | | GS9: Effects of Sound and Vibration on Humans; | | GS18: Non-linear Acoustics; | | GS31: Vibroacoustics, Isolation and Damping; | | SS5: Open-Plan Offices; |
| 10:40 | 77 | European round robin test for the improvement of impact sound insulation of a vinyl floor covering - Arne Dijkmans; Lieven De Geetere;[SS10] | 26 | Extra-auditory effects from exposure to noise in working environments - Sergio Luzzi; Lucia Busa; Paola Pulella; Giulio Arcangeli; Veronica Traversini;[GS9] | 19 | Weakly Nonlinear Pulse Propagation in Large Caliber Weapons: a Time-Domain Approach based on the Nonlinear Progressive Wave Equation - Guido Billot; Benoît Georges Marinus; Kristof Harri;[GS18] | 60 | Time domain analysis of vibrations induced by dynamic loads in tunnels - Carlos Albino; Luís Godinho; Daniel Dias-da-Costa;[GS31] | 6 | Open plan office noise is stressful: Multimodal stress detection in a simulated work environment - Elizabeth (Libby) Sander; James Birt; Cecelia Marques; Matthew Stead; Oliver Baumann;[SS5] |
| 11:00 | 102 | Characterisation of the equivalent orthotropic elastic properties of CLT panels - Andrea Santoni; Patrizio Fausti;[SS10] | 37 | A bio-monitoring tool for quantifying the effect of sound -and landscape on mental restoration in real nature and in virtual reality - Jorg De Winne; Jorg De Winne; Ehsan Eqlimi; Dick Botteldooren;[GS9] | 28 | Acoustical shock waves interactions: Signal based determination of non-linearities - Deleu Samuel; Gojon Romain; Jérémie Gressier;[GS18] | 237 | Vibroacoustic analysis of composite thin fiberglass plate - Haydar Aygun;[GS31] | 15 | Measurement and Prediction of Speech Level Reduction of a Phone Booth in Three Different Open-plan Offices - Jukka Keränen; Valtteri Hongisto;[SS5] |
| 11:20 | 117 | Reduction of low-frequency vibration of joist floor structures by multiple dynamic vibration absorbers: comparison of experimental and computational results - Yi Qin; Jin Jack Tan; Maarten Hornikx;[SS10] | 197 | Noise exposure at the place of residence is associated with atherothrombotic risk, in men but not in women. Findings from ENVI-MI (Environment and Myocardial Infarction) study. - Fred Mauny; Sophie Pujol; Nadine Bernard; Yves Cottin; Magali Koczorowski; Marianne Zeller; | 41 | Parametric generation of subwavelength acoustic vortices - Noé Jiménez; Joao Ealo; Rubén Muelas-Hurtado; Aroune Duclos; Vicente Romero-García;[GS18] | 282 | Detection of high moisture content in multilayered timber elements by means of non-destructive imaging techniques - Federica Morandi; Andrea Gasparella; Massimo Garai; Nicolas Quaegebeur; Patrice Masson;[GS31] | 107 | ISO 3382-3 Round Robin test in an open-plan office - Valtteri Hongisto; Jukka Keränen;[SS5] |
| 11:40 | | | 228 | A Study on Noise Exposure in School Environments - Francesco Asdrubali; Claudia Guattari; Lucia Busa; Sergio Luzzi; Paola Pulella; Franco Cotana; Michele Goretti; Piergiorgio Domenighini;[GS9] | 264 | Application of nonlinear wave modulation and break of reciprocity principle to assess corrosion-induced cracking in steel-reinforced concrete - Marina Miró; J.N. Eiras; Poveda-Martínez, Pedro; M. Á Climent; Ramis-Soriano, Jaime;[GS18] | 259 | On the use of audible sound from modulated ultrasound in indoor spaces - David Ortega; Carbajo-San-Martín, Jesús; Poveda-Martínez, Pedro; Ramis-Soriano, Jaime;[SS19] | 143 | Measurement uncertainty and unicity of acoustic single number quantities in open-plan offices - Lucas Lenne; Patrick Chevret; Etienne Parizet;[SS5] |
| 12:00 | | PLENARY CONFERENCE - Office Noise - Effects and control Valteri Hongisto | | | | | | | | |
| 13:00 | | LUNCH | | | | | | | | |
| | | SS4: Low-cost sensor networks for noise mon. and advanced charact. of urban sound env.; | | SS19: Objective and perceptual evaluation of sound fields in indoor and outdoor spaces; | | SS20: Parametric modelling and room acoustic simulation; | | GS19: Numerical and Computational Techniques; | | SS5: Open-Plan Offices; |
| 14:20 | 80 | CENSE Project: general overview - Arnaud Can; Judicaël Picaut; Jérémy Ardouin; Pierre Crépeaux; Erwan Bocher; David Ecotière; Mathieu Lagrange; ...;[SS4] | 48 | Acoustic Virtual Reality as a Learning Framework for Built Environment Students - Alessia Milo; Maarten Hornikx;[SS19] | 27 | Façade design through parametric modelling for environmental noise mitigation in a courtyard - Elena Badino; Louena Shtrepi; Arianna Astolfi;[SS20] | 5 | On the formulation of a BEM for solving wave propagation in acoustic domains with complex boundary conditions - A. Romero; P. Galvín; A. Tadeu;[GS19] | 165 | Space dynamics for work performance enhancement in open plan office - Hyun In Jo; Haram Lee; Beta Bayu Santika; Jin Yong Jeon;[SS5] |
| 14:40 | 122 | Improvement of city noise map production processes and sensitivity analysis to noise models inputs - Pierre Aumond; Erwan Bocher; David Ecotière; Nicolas Fortin; Benoît Gauvreau; Gwenaél Guillaume; Gwendal Petit;[SS4] | 79 | Noise unmasks the masking effect of reverberation on early reflections in the intelligibility of speech - Nicola Prodi; Matteo Pellegatti; Chiara Visentini;[SS19] | 121 | An Integrated Computational Approach for the Design of Tailored Acoustic Surfaces - Maia Zheliazkova;[SS20] | 24 | Simulation Study on the Noise Reduction Effect of Smoke Vent Layouts of Enclosed Noise Barriers - Jie Yang; Zhongxu Kang; Edgar Matas;[GS19] | 184 | Tagging noise sources in offices through Machine-Learning techniques - Dario D'Orazio; Domenico de Salvio; Massimo Garai;[SS5] |



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| 15:00 | 57 | A high density network of low cost acoustic sensors based on wired and airborne transmission of spectral data - Ardouin Jérémy; Baron Jean-Claude; Charpentier Ludovic; David Ecotiere; Fortin Nicolas; Gontier Félix; Guillaume Gwenaël; Mathieu Lagrange;[SS4] | 100 | Sound field synthesis: Simulation and evaluation of auralized interaural cues over an extended area - Matthieu Kuntz; Bernhard U. Seeber;[SS19] | 123 | Computational design applied to small room acoustics: creating and evaluating custom solutions - Valentijn Bors; Sebastiaan Bors;[SS20] | 50 | Stable Finite Element Formulation for the Perturbed Convective Wave Equation - Kaltenbacher Manfred; Roppert Klaus; Schoder Stefan; Heinz Johannes;[GS19] | 199 | Wave-based room acoustic simulations of an open plan office - Huiqing Wang; Wouter Wittebol; Matthias Cosnefroy; Maarten Hornikx; Remy Wenmaekers;[SS5] |
| 15:20 | 109 | Faster and more accurate noise mapping combining meta-modeling and data assimilation - Antoine Lesieur; Vivien Mallet; Pierre Aumond; Arnaud Can;[SS4] | 126 | Assessment of reverberation perception in atrium spaces - Rozhin Naeemae; Zühre Sü Gü;[SS19] | 125 | FDTD Simulation Study of Acoustic Enclosure Shape - Zackery Belanger; Elizabeth Teret;[SS20] | 66 | Lattice Boltzmann simulations in a rectilinear cascade configuration for the turbulence-airfoil interaction noise evaluation and reduction through serrated leading edges - Martin Buszyk; Thomas Le Garrec; Cyril Polacsek; Raphaël Barrier;[GS19] | 208 | How will ISO 22955 affect designs for open plan offices? - Jack Harvie-Clark; Ethan Bourdeau; Patrick Chevre; Laurent Brocolini;[SS5] |
| 15:40 | 93 | Urban sensor network for characterizing the sound environment in Lorient (France) through an automatic assessment of traffic, voice and bird presence ratios - Catherine Lavandier; Pierre Aumond; Arnaud Can; Félix Gontier; Mathieu Lagrange; Gwendall Petit;[SS4] | 153 | On the Acoustics of the Vianna da Motta Auditorium in Lisbon - Diogo Alarcão; Pedro Bello; Octávio Inácio;[SS19] | 132 | Generating Complex Reflective and Diffusive Geometries through Parametric Design - Laura C. Brill; John T. Strong; Scott D. Pfeiffer; Marcus R. Mayell;[SS20] | 96 | Pile driving induced vibrations: prediction based on a time-domain nonlinear hyperelastic model - Tales Vieira Sofiste; Luís Godinho; Pedro Alves Costa; Delfim Soares;[GS19] | 245 | Investigating noise disturbance in open-plan offices using measurements of the room acoustics, and of the sound environment during occupancy - Manuj Yadav; Densil Cabrera; Jungsoo Kim; James Love; Jonothan Holmes; Janina Fels; Richard de Dear;[SS5] |
| 16:00 | BREAK | | | | | | | | | |
| | | SS4: Low-cost sensor networks for noise mon. and advanced charact. of urban sound env.; | | SS19: Objective and perceptual evaluation of sound fields in indoor and outdoor spaces; GS3: Aeroacoustics; | | SS20: Parametric modelling and room acoustic simulation; GS30: Underwater Acoustics; | | GS19: Numerical and Computational Techniques; SS8: Computational methods for acoustic materials; | | SS5: Open-Plan Offices; SS23: Session for MSc students of architect. and civil engng. present. their thesis; |
| 16:20 | 53 | Multilabel acoustic event classification for urban sound monitoring at a traffic intersection - Ester Vildaña-Vila; Dan Stowell; Joan Navarro; Rosa Ma Alsina-Pagès;[SS4] | 231 | The influence of room acoustic parameters on the impression of orchestral blending - Jithin Thilakan; Otavio Colella Gomes; Malte Kob;[SS19] | 140 | Parametric Acoustics: Design techniques that integrate modelling and simulation - Brady Peters; John Nguyen; Randa Omar;[SS20] | 101 | Numerical modelling of sonic crystal noise barriers with absorbing scatterers - Matheus Duarte Veloso; Luís Godinho; Paulo Amado Mendes; Javier Redondo; Matheus Pereira;[GS19] | 247 | Office noise reduces work performance – A tool to assess the payback time of room acoustic investments - Valterri Hongisto;[SS5] |
| 16:40 | 70 | Implementation and performance assessment of a MEMS-based Sound Level Meter - Kham Savanne; Marmaroli Patrick; Minier Jordan; Boulandet Romain;[SS4] | 251 | How does the choice of the sound reproduction system affect the perceptual evaluation of impact sound insulation? - Dominik Kisić; Marko Horvat; Vedran Planinec; Kristian Jambrošić;[SS19] | 144 | Rapid Prototyping in Acoustics: Designing Sound Diffusive Panels with Rhino and Grasshopper for Robotic Fabrication - Anastasia Chatzikonstantinou; Karl Ostvall; Chase Gause; Pierre Chigot; Erling Nilsson;[SS20] | 161 | Optimisation of railway noise barrier design using finite element and boundary element modelling methods - César Bustos; Vincent Jurdic; Calum Sharp; David Hiller;[GS19] | 229 | Acoustic comfort contribution to the overall indoor environmental quality in workplaces - Silvia Fasano; Virginia Isabella Fissore; Giuseppina Emma Puglisi; Louena Shtrepi; Giorgia Spigiantini; Arianna Astolfi;[SS23] |
| 17:00 | 130 | Capturing the spatial and temporal variability of urban noise: do low-cost sensors offer a step towards higher resolution noise monitoring? - Tatiana Alvares-Sanches; Patrick E. Osborne; Paul R. White; Calvin Jephcote; John Gulliver;[SS4] | 258 | On the use of audible sound from modulated ultrasound in indoor spaces - David Ortega; Carbajo-San-Martín, Jesús; Poveda-Martínez, Pedro; Ramis-Soriano, Jaime;[SS19] | 171 | Parametric study of speech privacy in semi-enclosed meeting pods - Pantea Alambeigi; Jane Barry;[SS20] | 225 | Numerical modelling of structural vibration with piece-wise constant material properties using the nodal discontinuous Galerkin method - Indra Sihar; Jieun Yang; Maarten Hornikx;[GS19] | 232 | Investigation of acoustical phenomenon in atria covered by structural glass roof - Richard Simek; Vojtech Chmelfik;[SS23] |
| 17:20 | 145 | Self-calibrating Acoustic Sensor Networks with Per-Channel Energy Normalization - Vincent Lostanlen;[SS4] | 30 | Aeroacoustic Investigation of Refrigerator Air Duct and Flow Systems - Hazal Berfin Demir; Bayram Çelik; Koray Erdogan;[GS3] | 212 | Parametricising sound for early-stage design: An information design problem? - Nicole Gardner; Matthias Haeusler; Daniel Yu;[SS20] | 244 | Hybrid Fourier pseudospectral/discontinuous Galerkin time-domain method for urban sound propagation in a moving atmosphere - Matthias Cosnefroy; Maarten Hornikx;[GS19] | 267 | Digital Reconstruction of a Baroque Soundscape: The church of Sant'Ignazio di Loyola (1626), Rome - Barbe Dumoulin; Yannick Sluyts; Prof. Krista De Jonge; Monika Rychtáriková;[SS23] |



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| 17:40 | 183 | Design of a low-cost sound measurement device with wifi connectivity - Pedro Atanasio-Moraga; Jaime Borrallo Rivera; Antonio Gordillo Guerrero; Juan Miguel Barrigón Morillas; David Montes González; Guillermo Rey Gozalo; Guillermo Rey Gozalo;[SS4] | 51 | A Virtual Source Method for the prediction of the sound field around rigid obstacles - Penelope Menounou; Sryros Bougialis; Yannis Kallinderis; Panos Antonellis;[GS3] | 226 | Applications of Machine Learning Bounding-Boxes for Optimised Acoustical Reflectors - John O'Keefe;[SS20] | 285 | Development of a virtual auditorium occupied with virtual manikins used in thermo-acoustic evaluation - Eusébio Conceição; M ^a Inês L. Conceição; M ^a Manuela J. R. Lúcio; João M. M. Gomes; Hazim B. Awbi;[GS19] | 268 | The effect of mask wearing on speech intelligibility in various architectural environments in schools - TingChun Lee; Yannick Sluyts; Daniel Urban; Monika Rychtáriková;[SS23] |
| 18:00 | 234 | Low-cost noise monitoring: STEM education as a medium to collect population based noise exposure data - Luc Dekoninck;[SS4] | 55 | Bayesian denoising of wind tunnel tests using background noise measurements – application to supersonic jet noise - Nicolas Aujogue; Jérôme Antoni; Quentin Leclère; Emmanuel Julliard;[GS3] | 139 | Noise generation and propagation by biomimetic dynamic-foil thruster - Kostas Belibassakis; Iro Malefaki;[GS30] | 112 | Topology optimization of plate structures for sound transmission loss improvement in specific frequency - Daniele Giannini; Mattias Schevenels; Edwin Reynders;[SS8] | 269 | Acoustic Comfort Evaluation Based on Architectural Aspects in Atria - Majid Lavasani; Yannick Sluyts; Daniel Urban; Monika Rychtáriková;[SS23] |
| 18:20 | 243 | Determining the origin of impulsive noise events using paired wireless sound sensors - Fabian Nemazi; Jon Nordby;[SS4] | | | 283 | Acoustic signatures of ships and their inclusion in underwater traffic noise prediction models. - Michael Taroudakis; Emmanuel Skarsoulis;[GS30] | | | | |



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TUESDAY, 26th OCTOBER

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| | | GS2: Active Noise and Vibration Control; SS12: Development and application of EN ISO 12354 to national building techniques; | | SS7: Acoustic metamaterials; | | SS17: Prediction of airborne and impact sound insulation; | | GS20: Psychological and Physiological Acoustics; | | GS28: Tyre, Road and Rail Noise; |
| 09:00 | 104 | A narrowband virtual sensing Active Noise Control system using ESPRIT for an aircraft interior - Erspamer A.; Mylonas D.; Yiakopoulos C.; Antoniadis I.;[GS2] | 12 | A theoretical approach on designing wideband acoustic absorbers - Ela Faslija; Semiha Yilmazer; Cengiz Yilmazer;[SS7] | 34 | Determining the influence of the junction length on the vibration transmission across junctions - Wannes Stalmans; Cédric Van hoorickx; Edwin Reynders;[SS17] | 9 | Characterisation of hearing aids to determine the intelligibility of hearing impaired employees in a noisy working environment. - Antoine Malrin; Joël Ducourneau; Patrick Chevret;[GS20] | 2 | LIFE project Cool & Low Noise Asphalt: monitoring the acoustic performance of low noise pavements in the city center of Paris - Carlos Ribeiro; Jacopo Martini; Jérôme Lefébvre; Giulia Custodi; Fanny Mietlicki;[GS28] |
| 09:20 | 270 | Feedback impedance control for sound absorption with corona discharge actuator - Stanislav Sergeev; Hervé Lissek;[GS2] | 31 | Fast forced response calculations of finite metamaterial plates using a Generalized Bloch Mode Synthesis based sub-structuring approach - Lucas Van Belle; Claus Claeys; Elke Deckers; Wim Desmet;[SS7] | 36 | Challenges in interactive sound insulation auralization - Michael Vorländer;[SS17] | 25 | Relationship between acoustic perception and overall user experience in vacuum cleaners - Noemi Martin; Lisa-Marie Wadle;[GS20] | 10 | Shifts detection in the road surface condition through tyre/road noise analysis and pattern recognition approach. - Carlos Ramos-Romero; Juan Manuel Cermeño; César Asensio;[GS28] |
| 09:40 | 106 | A participatory approach to the evaluation of acoustic behavior of national building techniques - Luca Barbaresi; Antonino Di Bella;[SS12] | 65 | A Meta-structure for Low-frequency Acoustic Treatment Based on a KDamper-Inertial Amplification Concept - Moris Kalderon; Andreas Paradeisiotis; Ioannis Antoniadis;[SS7] | 88 | Numerical Acoustic Modelling of Cross-Laminated Timber Elements - Sven Valley; Stefan Schoenwald;[SS17] | 73 | Auditory perception and the subjective representation of time - Michael Haverkamp;[GS20] | 17 | Low-noise road mixtures for electric vehicles - Filippo G. Pratico; Gianfranco Pellicano; Rosario Fedele;[GS28] |
| 10:00 | 163 | Comparison of standard EN 12354 versions 2000 and 2017 applied to simulations of acoustic performance in buildings - Bárbara Fengler; Raquel Rossatto Rocha; José Carlos Giner;[SS12] | 85 | On the use of the Angular Spectrum Method for the evaluation of acoustic metasurfaces - Abdelhalim Azbaid El Ouahabi; Gianluca Memoli;[SS7] | 136 | A modal transfer matrix approach for the prediction of impact sound insulation - J. Vastiau; C. Van hoorickx; E. Reynders;[SS17] | 129 | Effects of sound environment on perceived enclosure in urban street canyons - Nazmiye Gulenay Yilmaz; Pyoung-Jik Lee; Muhammad Imran; Jeong-Ho Jeong;[GS20] | 18 | SOPRANOISE – in-situ inspection procedure for airborne sound insulation properties of existing noise barriers - Fabio Strigari; Michael Chudalla; Wolfram Bartolomaeus; Marco Conter; Andreas Fuchs; Massimo Garai; Christophe Nicodème; Jean-Pierre Clairbois;[GS28] |
| 10:20 | | BREAK | | | | | | | | |
| | | GS21: Room and Building Acoustics; | | SS7: Acoustic metamaterials; | | SS17: Prediction of airborne and impact sound insulation; SS22: Room acoustic effect on voice and instruments; GS6: Auralisation; | | GS20: Psychological and Physiological Acoustics; | | GS28: Tyre, Road and Rail Noise; |
| 10:40 | 8 | The acoustic characteristics of heritage theaters in Quito-Ecuador - Ernesto Ochoa; Antonio Pedrero; Mª de los Ángeles Navacerrada;[GS21] | 91 | PASSIVE EQUALIZER WITH VARIABLE RESONATOR RINGS FOR MUSICAL INSTRUMENTS - Lorenzo Bonoldi; Gianluca Memoli; Abdelhalim Azbaid El Ouahabi;[SS7] | 266 | Uncertainty quantification of diffuse sound insulation values - Edwin Reynders; Cédric Van hoorickx;[SS17] | 180 | The limen of azimuth as a Function of Frequency and Interaural Level Difference - Guo Wenjing; Wang Heng; Geng Yuxuan; Li Shuaifeng; Liu Jie;[GS20] | 87 | Acoustical characterization of low-noise prototype asphalt concretes for electric vehicles - Julien Cesbron; Simon Bianchetti; Marie-Agnès Pallas; Filippo G. Pratico; Rosario Fedele; Gianfranco Pellicano; Antonino Moro; Francesco Bianco;[GS28] |
| 11:00 | 44 | In situ acoustic characterization of a porous layer backed by a large air cavity - Baltazar Briere de La Hossieraye; Jieun Yang; Maarten Hornikx;[GS21] | 92 | Fundamental constraints on broadband passive acoustic treatments - Yang Meng; Vicente Romero-García; Gwénaél Gabard; Jean-Philippe Groby; Charlie Bricault; Sébastien Goude;[SS7] | 23 | Voice Production Changes in Artificial Environments - Pasquale Bottalico; Tomas Sierra-Polanco;[SS22] | 252 | Challenges on level calibration of online listening test: a proposed subjective method - Léopold Kritly; Vincent Basecq; Christ Glorieux; Monika Rychtáriková;[GS20] | 133 | Dynamic stiffness assessment of rubberized bituminous mixtures - Gil-Abarca A.; Vázquez V.F.; García-Hoz A.M.; Terán F.; Paje S.E.;[GS28] |
| 11:20 | 52 | Curves and empirical formulas for predicting the diffraction field caused by edges of finite length - Penelope Menounou; Nikolaos Gkourlias; Petros Nikolaou;[GS21] | 114 | Inverse design of a Helmholtz resonator-based acoustic metasurface for low-frequency sound absorption using deep neural network - K. Mahesh; S. Kumar Ranjith; R. S. Mini;[SS7] | 216 | Voice support from acoustically retroreflective surfaces - Densil Cabrera; Jonathan Holmes1; Shuai Lu1; Mary Rapp1; Manuj Yadav; Manuj Yadav;[SS22] | 255 | Influence of the COVID-19 mask on speech - Poveda-Martínez, Pedro; Carbajo-San-Martín, Jesús; Marco-Montejano, Alejandro; Castillo-Ginés, Ana B; Bleda-Pérez, Sergio; Ramis-Soriano, Jaime;[GS20] | 156 | Numerical tyre impact model combining Finite Element and Boundary Element Methodologies - Miguel Fabra-Rodríguez; Ramón Peral-Orts; Héctor Campello-Vicente; Nuria Campillo-Davó; Francisco Javier Simón-Portillo;[GS28] |



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| | 11:40 | 62 Analytical solution for diffraction by finite edges in frequency domain - Petros Nikolaou; Penelope Menounou;[GS21] | | 115 Preliminary studies for metamaterial-based audio systems - Letizia Chisari; Mario Di Cola; Paolo Martignon; Gianluca Memoli;[SS7] | | 49 Universal parameters and similarity conditions in the study of the diffracted signal around a wedge - Penelope Menounou; Marios Spyropoulos;[GS6] | | 277 Sound quality assessment: comparison of in-situ and on-line experiments - Parizet Etienne; Dorian Grappe; Chaouki Benzekri; Clément Coppel;[GS25] | | 176 Low barriers for Railway Noise installed at Basque Country. Experience of Euskal Trenbide Sarea in Ermua - Manuel VAZQUEZ; Itziar ASPURU; FERNANDEZ, Pilar; LÓPEZ, Cristina; PEIRO, Pilar; TORRECILLA, Jesús;[GS28] |
| | 12:00 | PLENARY CONFERENCE - Theory vs. Practical Cases in Room Acoustics Kristian Jambrošić | | | | | | | | |
| | 13:00 | LUNCH | | | | | | | | |
| | | GS21: Room and Building Acoustics; | | SS7: Acoustic metamaterials; | | SS18: Ground-borne noise in buildings; | | GS16: Noise Control Materials; | | GS28: Tyre, Road and Rail Noise; GS7: Community Noise; |
| | 14:20 | 63 Assessment of the low-frequency procedure in the field measurements of impact sound insulation - Mikko Kylliäinen; Lauri Talus; Jesse Lietzén; Pekka Latvanne; Ville Kovalainen;[GS21] | | 116 Effective properties derivation of Willis-type 1D asymmetric resonant structures - M. Malléjac; A. Merkel; D. Torrent; J. Li; V. Tournat; V. Romero-García; J.-P. Groby;[SS7] | | 35 Railway-induced ground-borne noise in buildings: case-study of the CEVA line in Geneva (CH) - BOZZOLO Dario; Vincenza Barbaro; David Cordier;[SS18] | | 58 Acoustic absorption of porous concrete – normal incidence vs diffuse field conditions - Laura Lourenço de Sousa; Luís Pereira; Denilson Ramos; Luís Godinho; Paulo Amado Mendes;[GS16] | | 191 An approach to improve railway rolling noise calculations in CNOSSOS-EU: Refinement and validation using TWINS calculations - Siddharth Venkataraman; Romain Rumpler; Siv Leth; Martin Toward; Tohmy Bustad;[GS28] |
| | 14:40 | 76 Sound flanking transmission by curtain wall mullions - Medelfef Youcef; Midelet Christophe; BEN TAHAR Mabrouk; Lahbib Patrick;[GS21] | | 127 Perfect broadband sound absorber metamaterial for noise reduction in a rocket launch - José M. Requena-Plens; Rubén Picó; Víctor J. Sánchez-Morcillo; Noé Jiménez; Alejandro Cebrecos; Mara S. Escartí-Guillem;[SS7] | | 71 A case study on railway-induced ground-borne noise numerical modeling - Benjamin Oksanen; Jesse Lietzén; Timo Huhtala; Mikko Kylliäinen;[SS18] | | 160 Low-frequency noise reduction by a noise barrier made of a resonator array - Jieun Yang; Maarten Hornikx;[GS16] | | 201 Acoustic properties of several track types - Itziar Aspuru; Michael Dittrich; Manuel Vázquez; Alvaro Santander; Ana Leal; Marta Ruiz;[GS28] |
| | 15:00 | 108 Sound absorption evaluated by analytical and experimental approaches of a variable acoustic solution composed of a multi-layer acoustic absorber - Anna Carolina Ripke Gaspar; Andrea Pereira; Luís Godinho; Paulo Amado Mendes; Díogo Manuel Rosa Mateus; Jesús Carballo-San- | | 128 Low-frequency sound transmission loss of honeycomb metastructure with in-parallel arrangement of Helmholtz resonators - Denilson Ramos; Luis Godinho; Paulo Amado-Mendes; Paulo Mareze;[SS7] | | 147 Building structural impact response to Train pass-by and to MLS excitation - Robin WALTHER; Abbas KACEM; Arthur LECLERC; Emmanuel THORAVALL; Nizar SAYAD;[SS18] | | 211 Oblique Incidence Sound Absorption of Parallel Arrangement of Thin Microperforated Panel (MPP) - Iwan Prasetyo; Indra Sihar; Anugrah Sabdono Sudarsono;[GS16] | | 20 The Development of ISO/PAS 1996-3 on Impulsive Sound Prominence - Douglas Manvell; Torben Holm Pedersen;[GS7] |
| | 15:20 | 118 Optimization of multiple dynamic vibration absorbers for reduction of low frequency vibration of joist floor structures - Yi Qin; Jin Jack Tan; Maarten Hornikx;[GS21] | | 157 Acoustic metamaterial for low frequency harmonic noise mitigation - Michal Kozupa; Beata Kotra;[SS7] | | 168 Prediction of building noise and vibration – 3D finite element and 1D wave propagation models - Lutz Auersch;[SS18] | | 239 Acoustic properties of high-capacity asphalt mixtures with alternate grain size - Jesús Carbajo-San-Martin; P. Poveda; J. Ramis; D. Ortega; G. Motos; J. López; J. M. Berenguer;[GS16] | | 169 Noise annoyance from motorways is worse than annoyance from urban roads - Hans Bendtsen; Torben Holm Pedersen;[GS7] |
| | 15:40 | 172 The "Teatro Principal" of Valencia. Acoustics for Theatre or Music. Objective evaluation supported by acoustic simulation - Pérez-Aguilar, Blanca; Quintana Gallardo, Alberto; Guillén Guillamón, Ignacio;[GS21] | | 177 Redirection of flexural waves in thin plates - Jose Sanchez-Dehesa; Penglin Gao; Francisco Cervera;[SS7] | | 263 Predicting structure-borne sound in buildings due to outdoor ground vibration: what can be used from the European standards predicting the acoustic performances of buildings? - Michel Villot;[SS18] | | 240 Materials for simultaneous acoustic insulation and conditioning - Jesús Alba; Juan C. Rodríguez; Romina del Rey; M ^a Cruz Grau; Ignacio Ramón2;[GS16] | | 151 Acoustic properties of calcium silicate ducts used for ventilation and smoke extraction - Cyrille Demanet; Emmanuel Annerel; Wilfried Piontkowski;[GS7] |
| | 16:00 | BREAK | | | | | | | | |
| | | GS21: Room and Building Acoustics; | | SS7: Acoustic metamaterials; SS3: Urban Sound Environment; | | GS10: Environmental Noise Exposure; | | GS24: Soundscape; | | SS21: Acoustic environments for children: design and effects on listening and learning; |



FINAL PROGRAM



TUESDAY, 26th OCTOBER

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|-------|-----|---|-----|--|-----|---|-----|--|-----|---|
| 16:20 | 185 | A hybrid room acoustic approach for auralization - Wouter Wittebol; Maarten Hornikx;[GS21] | 257 | Natural sonic crystal absorber constituted of Aegagropilae fiber network - Laurianne Barguet; Vicente Romero-García; Noé Jiménez; Luís M. Garcia-Raffi; Victor J. Sánchez-Morcillo; Jean-Philippe Groby;[SS7] | 148 | Noise barriers as a road traffic noise intervention in an urban environment - Ablenya Grangeiro de Barros; Navid Hasheminejad; Jarl K. Kampen; Steve Vanlanduit; Cedric Vuye;[GS10] | 78 | Perceptual assessment of operation noises of equipment on construction sites - Joo Young Hong; Bhan Lam; Zhen-Ting Ong; Kenneth Ooi; Woon-Seng Gan; Sung Chan Lee;[GS24] | 22 | Comprehension of dysphonic speech by primary students. - Pasquale Bottalico; Silvia Murgia;[SS21] |
| 16:40 | 195 | Examples of constraint-based specification of room acoustic parameters - Andor T. Fúrjes;[GS21] | 3 | Sounds of Smart City: a subjective review of acoustical problems appearing in creating intelligent urban areas - Jan Kaźmierczak; Barbara Rożałowska; Joanna Bartnicka; Kinga Stecula; Waldemar Paszkowski; Artur Kuboszek; Arkadiusz Boczkowski;[SS3] | 196 | Effect of media coverage about airport changes on aircraft noise annoyance during an airport study - Sarah Benz; Christin Belke; Dirk Schreckenber;[GS10] | 170 | Soundscape characterisation of two motorway service areas - Gianluca Memoli; Letizia Chisari; Lara Geneva Del Pizzo; Vincenzo Cirimele; Benedetto Carambia;[GS24] | 39 | Sentence comprehension and word recall in noisy classrooms: links with cognitive and noise-sensitivity measures - Chiara Visentin; Matteo Pellegatti; Nicola Prodi;[SS21] |
| 17:00 | 198 | Positioning sound absorption – a comparative study based on different calculation methods - Andor T. Fúrjes;[GS21] | 64 | A Research on the Evaluation and Usability of Mosque Gardens as Quiet Areas - Gulsen AKIN GULER; Asli Ozcevik Bilen;[SS3] | 200 | The role of noise annoyance for health-related effects of aircraft noise and recommendations for interventions - Sarah Benz; Julia Kuhlmann; Barbara Ohlenforst; Susanne Bartels; Sonja Jeram; Dirk Schreckenber;[GS10] | 203 | Daumal method of auditory sensory tour, through the soundscapes of architecture and the city - Francesc Daumal I Domènech; Joaquim Serrat Gonzalez;[GS24] | 98 | The cognitive effects of noise on the memory performance of children with cochlear implants - Barbara Arfé; Gaia Spicciarelli; Flavia Gheller; Massimiliano Facca; Nadina Gómez-Merino; Patrizia Trevisi; Alessandro Martini;[SS21] |
| 17:20 | 280 | On the use of a variable acoustic solution with perforated panels for a multi-purpose auditorium - Andreia Pereira; Gaspar A.; Godinho L.; Amado Mendes P.; Mateus D.; Carbajo J.; Ramis J.; Poveda P.;[GS21] | 141 | A detailed investigation on three-dimensional sound emittance of today's motorised vehicles in urban contexts - Marschner Holger; Krimm Jochen; Techen Holger; Büdding Yvonne; Fiedler Ralf;[SS3] | 214 | Necessary adjustments in ISO 9613-2 and CNOSSOS (industries) methods for noise forecasting in Wind Farms - Vitor Rosão; Rui Leonardo; Pedro Santos;[GS10] | 207 | Validated translation into Portuguese of perceptual attributes for soundscape assessment - Sónia Monteiro Antunes; Ranny Loureiro Xavier Nascimento Michalski; Maria Luiza de Ulhõa Carvalho; Sónia Alves;[GS24] | 149 | Combined assessment of cognitive and physiological parameters in child-appropriate listening experiments - Karin Loh; Christoph Hoog Antink; Sophie Nolden; Janina Fels;[SS21] |
| 17:40 | 241 | Acoustic treatment for a radio studio at the Escola Politècnica Superior de Gandia (Polytechnic School of Gandia) - Jesús Alba; Juan C. Rodríguez1; Gema Gonzalez; Maria Balagué; Maria Cruz Grau; Ignacio Ramon;[GS21] | 188 | Categorization of urban sound sources: A taxonomical framework based on diegesis and intention - Kivanc Kitapci; Dogukan Ozdemir;[SS3] | 217 | Cyclists' Road Traffic Noise Exposure: Highlights of Bike-to-Work Noise Measurements Campaign under Corona Lockdown in a Danish City - Jibran Khan; Franck Bertagnolio; Ole Hertel;[GS10] | 233 | Sentinel: Versatile real-time acoustic autonomous monitoring system for studying natural soundscape - Damian Payo; Lucas E. Gonzalez2; Pablo Kogan; Manuel C. Eguia;[GS24] | 173 | Elementary classroom acoustics: what really matters - Greta Minelli; Giuseppina Emma Puglisi; Arianna Astolfi;[SS21] |
| 18:00 | 278 | Evolutionary Optimization Processes For Acoustic Applications Where Size Matters - Daniel Benítez-Aragón; Jaime Galiana-Nieves; Juan Manuel Herrero; Javier Redondo;[GS21] | 224 | Cultural Soundscape Evaluation on Re-functionalized Historical Sites with Adaptive Reuse Approach: Ankara Citadel Case - Papatya Nur DÖKMECİ YÖRÜKOĞLU; Zehra Gediz URAK; Uğur Beyza ERÇAKMAK OSMAN;[SS3] | 262 | Ranking Industrial Noise Sources with Noise Mapping and Beamforming Techniques - Luís Conde Santos;[GS10] | 242 | The soundscape of the Kościeliska Valley in the Tatra National Park – case study - Dorota Czopek; Katarzyna Sochaczewska; Jerzy Wiciak;[GS24] | 205 | Student activity and speech levels before and after acoustic enhancement and PA redesign - Domenico De Salvo; Dario D'Orazio; Massimo Garai;[SS21] |
| 18:20 | | | | | | | | | 47 | Better Communication and Learning in the Classroom. Training teachers' awareness of voice use and room acoustics, an intervention study - Viveka Lyberg Åhlander; Suvi Karjalainen; Birgitta Sahlén; K. Jonas Brännström; Anna Houmann;[SS21] |



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| | | GS21: Room and Building Acoustics; GS5: Animal and Bioacoustics; | | SS9: Measurement of sound absorption ; | | SS13: BIM in acoustics; | | SS2: Acoustics of the lockdown; | | SS6: Scattering control by sound diffusers and metamaterials; |
| 09:00 | 206 | AIRPORTS: A STUDY OF THE INFLUENCE OF SPECTRAL ADAPTATION TERMS ON THE SOUND INSULATION OF FACADES REINFORCEMENT - Sónia Monteiro Antunes; Jorge Patricio;[GS21] | 7 | A 2D waveguide to measure oblique incidence reflection and transmission coefficients - Ze Zhang; Hervé Denayer; Claus Claey; Wim Desmet; Elke Deckers;[SS9] | 43 | Challenges in entire building sound insulation calculation - Cástor Rodríguez-Fernández; Roberto San Millán-Castillo; Eduardo Latorre-Iglesias;[SS13] | 94 | Multidimensional analysis to monitor the effects of COVID-19 lockdown on the urban sound environment of LorientMultidimensional analysis to monitor the effects of COVID-19 lockdown on the urban sound environment of Lorient - Pierre Aumond; Arnaud Can; Mathieu Lagrange; Félix Gontier; Catherine Lavandier;[SS2] | 42 | Twisting acoustic reflections by spiral sound diffusers - Noé Jiménez; Jean-Philippe Groby; Vicente Romero-García;[SS6] |
| 09:20 | 154 | Double Skin Façade for university building in Mexico located in a high noise area - Antonio Bautista Kuri;[GS21] | 40 | Experimental techniques for measuring sound absorption through micro-perforated partitions - Bravo Teresa; Maury Cédric;[SS9] | 72 | Application of BIM Model Checking in building acoustic design - Antonino Di Bella;[SS13] | 124 | Noise immission level reduction during the lockdown considering four main noise sources with the greatest impact on the population - Sara Olivares; Joan Cardona; Behshad Noori;[SS2] | 46 | Scattering control by using correlated disorder - Vicente Romero-García; Svetlana Kuznetsova; Élie Chéron;[SS6] |
| 09:40 | 11 | Dairy Cattle Welfare through Acoustic Analysis: preliminary results of acoustic environment description - Rosa Ma Alsina-Pagès; Pol Llonch; Gerardo Jose Ginovart-Panisello; Raul Guevara; Marc Freixes; Muriel Castro; Leticia Duboc; Eva Mainau;[GS5] | 45 | Perfect acoustic absorption in reciprocal ventilated problems - Vicente Romero-García; Noé Jiménez; Vincent Pagneux;[SS9] | 74 | Development of an architectural acoustic study through a complete Open BIM workflow - Victor Díez Montenegro; Sebastien Agnolin; Pascal Ducruet;[SS13] | 158 | Effects of COVID-19 pandemic on the sound environment of the city of Milan, Italy: a comparison of the pre, during and post lockdown periods - Francesc Alías; Rosa Ma Alsina-Pagès; Roberto Benocci; Fabio Angelini; Giovanni Zamboni;[SS2] | 59 | Sound diffusing metasurfaces based on elastic plates and membranes - José Manuel Requena-Plens; Jean-Philippe Groby; Vicente Romero-García; Noé Jiménez;[SS6] |
| 10:00 | 159 | Changes in the characterization of newborn bird vocalisations during first 48-h of life-hours - Gerardo José Ginovart-Panisello; Silvia Riva; Tesa Panisello Monjo; Rosa Ma Alsina-Pages;[GS5] | 103 | An acoustic impedance measurement technique using one cardioid microphone in a tube - Kazuma Hoshi; Toshiki Hanyu;[SS9] | 146 | An open BIM workflow for the prediction of sound insulation in timber constructions - Camille Châteaueux-Hellwig; Ulrich Schanda; Ekaterine Geladze; Fabian Schöpfer; Felix Frischmann; Andreas Rabold; Andreas Mayr;[SS13] | 175 | Noise levels evolution before, during and after the COVID19 Lockdown in Girona - Carme Martínez-Suquía; Pau Bergadà; Rosa Maria Alsina-Pagès;[SS2] | 99 | Application of metamaterials to control noise scattering during space vehicle lift-off - Escartí-Guillem, Mara S.; Barriuso Feijoo, Pablo; Cebrecos, Alejandro; Chimenó Manguán, Marcos; Cobo, Pedro; García-Raffi, Lluís M.; Groby, Jean-Philippe; ...;[SS6] |
| 10:20 | BREAK | | | | | | | | | |
| | | GS21: Room and Building Acoustics; | | SS9: Measurement of sound absorption ; | | SS13: BIM in acoustics; GS25: Sound Quality; | | SS2: Acoustics of the lockdown; SS16: Characterisation of structure-borne sound sources; | | SS6: Scattering control by sound Diffusers and metamaterials; GS17: Noise Propagation in Ducts and Pipes; |
| 10:40 | 164 | Study on the convenience of performing façade insulation measurements using the low-frequency procedure in rooms with a volume above 25 m3 - María Ángeles Navacerrada-Saturio; D. De la Prida; A. Pedrero; D. Caballol; A. Díaz-Chyla; J. Pinilla;[GS21] | 111 | Learning the finite size effect for in-situ absorption measurement - Elias Zea; Eric Brandao; Melanie Nolan; Joakim Anden; Jacques Cuenca; Peter Svensson;[SS9] | 204 | Brazilian BIM Objects Standard- How to Deal with Acoustics? - Carolina Monteiro; Paola Weitbrecht; Cecilia Jardim;[SS13] | 190 | Perception of the acoustic environment in the remote working setting during the lockdown - Giuseppina Emma Puglisi; Sonja Di Blasio; Louena Shtrepi; Arianna Astolfi;[SS2] | 113 | On the use of slow sound to time delay a pulse - M. Malléjac; V. Tournat; V. Romero-García; J.-P. Groby; P. Sheng;[SS6] |
| 11:00 | | | 120 | Differences in absorption coefficient determination using the Sabine and Millington-Sette equations for different samples of natural virgin cork - David Montes González; Juan Miguel Barrigón Morillas; Valentín Gómez Escobar; Rosendo Vilchez-Gómez; Rubén Maderuelo-Sanz; Guillermo Rey Gozalo; Pedro Atanasio Moraga;[SS9] | 253 | BIM Process for acoustic problems - Costantino Carlo Mastino; Antonino Di Bella; Luca Barbaresi; Giovanni Semprini; Andrea Frattolillo;[SS13] | 194 | Sounds and noises during a period of the COVID-19 pandemic in Brazil - Poliana Lopes de Oliveira; E. Felipe Vergara; Gildean do Nascimento Almeida; Maria Lúcia da Rosa Oiticica; Jordana Teixeira da Silva; Elisabeth de Albuquerque Cavalcanti Duarte Gonçalves;[SS2] | 138 | Spiraling waves and detection of phase singularities in objects immersed in inhomogeneous acoustic fields - Ludovic Alhàit; Diego Baresch; Thomas Brunet; Christophe Aristégui; Olivier Poncelet;[SS6] |



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| 11:20 | | | 131 | Comparison of measurement and prediction for acoustical treatments designed with Transfer Matrix Models - Rinaldi Petrolli; Artur Zorzo; Peter D'Antonio;[SS9] | 249 | Remote Evaluation of Impulse Signals in Refrigerators Using Psychophysical Models - Henrique Silveira; Erasmo Felipe Vergara;[GS25] | 67 | NUMERICAL SIMULATION OF FLOOR IMPACT SOUND USING VIBROACOUSTIC FINITE-DIFFERENCE TIME-DOMAIN METHOD - Takumi Asakura;[SS16] | 162 | From Quasi-Perfect to Broadband Sound Diffusion Using Metadiffusers - Eric Ballesterro; Noé Jiménez; Jean-Philippe Groby; Haydar Aygun; Stephen Dance; Vicent Romero-García;[SS6] |
| 11:40 | | | 202 | An experimental approach for estimating the impedance of elastic non-porous materials - Matthieu Hartenstein; Efen Fernandez-Grande; Vicente Cutanda-Henriquez;[SS9] | | | 89 | Latest results on the characterization of waste water pipes according to the draft EN 14366 - Sven Öhler; Bernd Kaltbeitzel;[SS16] | 21 | Experimental characterisation of the acoustic properties of a residential ventilation valve - Olivier Van Dessel; Hervé Denayer; Wim De Roeck;[GS17] |
| 12:00 | PLENARY CONFERENCE - Diagnostic and therapeutic applications of ultrasound in medicine Xavier Serres-Créixams | | | | | | | | | |
| 13:00 | LUNCH | | | | | | | | | |
| | | | | SS9: Measurement of sound absorption ; GS22: Signal Processing and Analysis; | | SS11: Sound insulation of timber building; | | GS27: Transportation Noise; | | GS29: Ultrasonics; |
| 14:20 | | | 218 | On the Estimation of Directional Decay Times in Reverberation Rooms - Marco Berzborn; Jamilla Balint; Michael Vorländer;[SS9] | 13 | A systematic comparison between EN ISO 12354 calculations of CLT floors with a large set of laboratory and field measurements - Christian Simmons;[SS11] | 54 | "The airport does what it wants to do anyways" – qualitative revisiting of the 4-factor model of fairness in the context of aviation research – first results of a focus group study - Dominik Hauptvogel; Julia Quehl; Susanne Bartels; Tobias Rothmund;[GS27] | 38 | Therapeutic ultrasound holograms to target thalamic nuclei through the temporal bone window - Diana Andrés; Irene Pi-Martin; Noé Jiménez; Francisco Camarena;[GS29] |
| 14:40 | | | 235 | Modeling the edge effect for inverse determination of porous absorbers using feed forward neural networks - Mark Müller-Giebel; Michael Vorländer;[SS9] | 16 | Effects of construction details on measured sound insulation of timber frame partition walls - Bernd Nusser; Christian Lux;[SS11] | 61 | The synergetic effect of nocturnal road noise exposure and work-related stress on self-rated sleep quality - Susanne Bartels; Mikael Ögren; Kim Jeong-Lim; Sofie Fredriksson; Kerstin Persson Waye;[GS27] | 69 | Ultrasonic holograms to enhance hyperthermia volumes - Diana Andrés; Jonathan Vappou; Noé Jiménez; Francisco Camarena;[GS29] |
| 15:00 | | | 250 | Round robin study of a reference sample for PU in situ sound absorption characterization - Fanyu Meng; Dani Fernandez;[SS9] | 81 | Noise propagation through wooden posts - Philippe Jean; Catherine Guigou-Carter; Bertrand de Bastiani;[SS11] | 135 | Characterizing noise barriers: SOPRANOISE half-term progress report - Jean-Pierre Clairbois; Massimo Garai; Paolo Guidorzi; Wolfram Bartolomaeus; Michael Chudalla; Fabio Strigari; Marco Conter; ...;[GS27] | 97 | Performance evaluation of image reconstruction algorithms for photoacoustic tomography - I. Pi-Martin; J.J. García-Garrigós; A. Cebrecos; N. Jiménez; F. Camarena;[GS29] |
| 15:20 | | | 33 | Using dark fibres in existing telecommunication cables for characterization vibration levels of railway infrastructure - Hölscher Paul; Edwin A. Obando Hernández; Pieter Doornenbal; Hielke Zandberg;[GS22] | 84 | Acoustic performance of a CLT-based 3 floor building mockup - Catherine Guigou Carter; Jean-Luc Kouyoumji; Nicolas Balanant; Bertrand De Bastiani;[SS11] | 210 | Performance of low height railway noise barriers - João Lázaro; Matheus Pereira; Pedro Alves Costa; Luís Godinho;[GS27] | 152 | Eigenfrequency analysis of the vibrating horn in Ultrasonic Metal Welding - Elie Abi Raad; Jose Maria Uribe; Michael Vorländer;[GS29] |
| 15:40 | | | 68 | Time-variant signal manipulation using frame multipliers - Christian H. Kasess; Thomas Maly; Peter Balazs; Wolfgang Kreuzer;[GS22] | 182 | Sound insulation performance of CLT prefabricated modules for high-rise buildings - Giacomo Vairetti; Alfons Hartman; Yvo Pol; Diana de Krom;[SS11] | 274 | Sound quality objective evaluation of electric and combustion engine cars - Angelia Oktaviani Purnomo; Calista Talita; Sugeng Joko Sarwono; Anugrah Sabdono Sudarsono;[GS27] | 167 | Sharp and nonlinear cavitation mapping using synchronized sinesweep imaging - Enrique González-Mateo; Nathalie Lamothe; Noé Jiménez; Francisco Camarena;[GS29] |
| 16:00 | BREAK | | | | | | | | | |



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| 16:20 | | PLENARY CONFERENCE - Acoustics and Environmental Comfort Sergio Luzzi | | | | | | | | |
| 17:20 | | CLOSING SESSION | | | | | | | | |