

19th INTERNATIONAL CONGRESS ON ACOUSTICS

CONGRESS PROGRAMME AND ABSTRACTS



INTERNATIONAL TECHNICAL EXHIBITION OF PRODUCTS AND SERVICES ON ACOUSTICS AND VIBRATIONS









sc 170/07

S.M. el Rey, accediendo a la petición que tan amablemente Le ha sido formulada, ha tenido a bien aceptar la

PRESIDENCIA DE HONOR

del **"19th INTERNATIONAL CONGRESS ON ACOUSTICS"** que, bajo el lema *«Acoustics for the 21st Century»*, tendrá lugar en Madrid del 2 al 7 de septiembre próximo.

Lo que me complace participarle para su conocimiento y efectos.

PALACIO DE LA ZARZUELA, Z6 de abril de 2007

EL JEFE DE LA CASA DE S.M. EL REY,

Allun Fro Anis

SR. PRESIDENTE DEL COMITÉ ORGANIZADOR

MADRID





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38º Congreso Nacional de Acústica y Encuentro Ibérico de Acústica

38º Congresso Nacional de Acústica e Encontro Iberico de Acústica

38th Spanish National Congress on Acoustics and Iberian Meeting on Acoustics

Jointly with ICA 2007 MADRID



Sociedad Española de Acústica



Sociedad Española de Acústica

Welcome to ICA2007MADRID

The International Congresses on Acoustics are held every three years under the auspices of the International Commission for Acoustics. These series of conferences have already a long history since they started in 1953.

In 1977, the 9th International Congress on Acoustics was held in Madrid. Thirty years later the Spanish acousticians are very pleased to host once again the biggest world meeting in acoustics.

The 19th ICA2007MADRID is jointly organised by the Spanish Acoustical Society (SEA) and the Institute of Acoustics (IA) of the Spanish Higher Council for Scientific Research (CSIC).

The number of invited and contributed papers of all branches of acoustics presented at the Congress are over 1300 from authors of more than 50 countries. The Congress programme also includes five Plenary Lectures given by selected renowned speakers.

An international technical exhibition of products and services on Acoustics and Vibrations, EXPOACUSTICA® 2007 MADRID, will be held from 3rd to 7th September at the Congress Venue.

Also, jointly with ICA2007MADRID the 38th Spanish National Congress on Acoustics and Iberian Encounter on Acoustics will take placed.

In addition, to the general programme, lasting from the 2nd to the 7th September 2007, two satellite symposia will be held, respectively, in Barcelona, the International Symposium on Musical Acoustics, ISMA2007, and in Sevilla the International Symposium on Room Acoustics, ISRA2007.

The Organizing Committee of the ICA2007 Madrid, on behalf of all the Spanish acousticians welcome all colleagues from all over the world and hope to offer them an adequate platform for fruitful scientific and technical exchanges and an enjoyable stay in Spain.

The Organizing Committe

19th INTERNATIONAL CONGRESS ON ACOUSTICS ICA2007MADRID

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 - BIO Bioacoustics
 - CAS Communication Acoustics, including Speech
 - COM Computational Acoustics
 - ELE Electro-acoustics and Audio Engineering
 - **ENV Environmental Acoustics**
 - MUS Musical Acoustics
 - NLA Non-linear Acoustics
 - NOI Noise
 - PHY- Physical Acoustics
 - PPA Physiological and Psychological Acoustics
 - RBA Room and Building Acoustics
 - SAV Structural Acoustics and Vibration
 - **ULT** Ultrasonics
 - **UNW** -Underwater Acoustics
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PRESIDENT OF HONOUR

His Majesty the King of Spain

1. Committees and Organizing Institutions

1.1. Committee of Honour

The President of the Community of Madrid

The Minister of Public Works

The Minister of Education and Science

The Minister of Culture

The Minister of Health and Consumer Affairs

The Minister of Environment The Minister of Housing

The Major of Madrid

The President of the Consejo Superior de Investigaciones Científicas

The Dean of the Colegio Oficial de Ingenieros Técnicos de Telecomunicación

1.2. International Advisory Committee

Fülop Agucztinovizc - Hungary

Adriano Alippi - Italy
Ewald Benes - Austria
Phillipe Blanc-Benon - France
Jens Blauert - Germany
Douglas Cato Australia
Hou Chaohuan - China
Lawrence A. Crum - U.S.A.
Gilles Daigle - Canada
Françesc Daumal - Spain

Nikolai A. Dubrovsky - Russia Stephen J. Elliot - U.K. Hugo Fastl - Germany Mathias Fink - France Luis Gaete - Chile Amando García - Spain Guillermo Gaunaurd - U.S.A. Samir N.Y. Gerges - Brasil Colin H. Hansen - Australia

Finn Jensen - Denmark

William A. Kuperman - U.S.A. Sonoko Kuwano - Japan Zyunti Maekawa - Japan Luigi Maffei - Italu

Pedro Martins da Silva - Portugal Francisco Montero - Spain Antonio Moreno - Spain Philip A. Nelson - U.K. Massimo Pappalardo - Italy Jaime Pfretzschner - Spain Roberto Pompoli - Italy Manuel Recuero - Spain Joachim Scheuren - Germany Charles E. Schmid - U.S.A.

Brigitte Schulte-Fortkamp - Germany Juan Jose Sendra, - Spain Antoni Sliwinski - Poland Hideki Tachibana - Japan Machael Vorländer - Germany Suk Wang Yoon - Korea

1.3. Organizing Committee

Honorary President: Andrés Lara President: Juan A. Gallego-Juárez

Vice-Presidents: Antonio Pérez-López Carlos Ranz-Guerra J. Salvador Santiago

General Secretary and Manager: Antonio Calvo-Manzano

Members: Harald Aagesen Miguel Arana Higini Arau

José Luis Bento Coelho

Luis Bragança Cleofé Campos Joan Casamaió

Francisco José Chinchurreta

Carlos de la Colina Azucena Cortés María Cuesta Ana Delgado Cesar Díaz Tomás Gómez Álvarez-Arenas Itziar González Gómez Julio González Suárez Isabel López Barrio

Juan José Martínez Requena

Emilio Mateos
Jorge Patricio
Placido Perera
Antonio Ramos
Enrique Riera
José María Ruiz
José Luis San Emeterio
Pedro Tomás Sanz Sánchez

Ana Espinel Javier Tejado

1.4. Organizing Institutions: Profiles, Boards and Members

The 19th International Congress on Acoustics is organized by the Spanish Acoustical Society, SEA and the Institute of Acoustics, -IA- CSIC, under the auspices of the International Commission for Acoustics, ICA, and the collaboration of the Municipality of Madrid.

International Commission for Acoustics -ICA-

Profile

The International Commission for Acoustics (ICA) was instituted in 1951 as a subcommittee of the International Union of Pure and Applied Physics (IUPAP). New Statutes were adopted by the International Commission for Acoustics in Antwerp 1996 March 31 and were approved by the IUPAP General Assembly in Uppsala Sweden 1996 September 20. An information letter explaining the proposed changes to the status of the commission was circulated to acoustical societies 1996 May 10. The new ICA held its first General Assembly 1998 June 25 during the 16th Congress in Seattle where the By-laws of the new organization were adopted by the Member Societies. The ICA also applied to become an Affiliated Commission of the International Union of Applied and Theoretical Mechanics (IUTAM). A motion in favour of Affiliation was carried unanimously at the IUTAM General Assembly Meeting held at the University of Stuttgart 1998 August 28-30. The Commission remains affiliated to the International Union for Pure and Applied Physics (IUPAP). The ICA became a Scientific Associate of the International Council for Science ICSU in its own right in 2006

The purpose of the International Commission on Acoustics (ICA) is to promote international development and collaboration in all fields of acoustics including research, development, education, and standardisation.

Means for the Commission to fulfil its mission are:

- a) i to maintain close contacts with national and regional acoustical societies and associations as well as other relevant professional organisations and seek consensus in matters of mutual interest; ii to provide an information service on societies, congresses, symposia, etc., research and education organisations in the field of acoustics; iii to take a proactive role in co-ordinating the main international meetings within acoustics.
- b) to convene the International Congresses on Acoustics in accordance with the Commission's guidelines and to act as the International Advisory Committee for these congresses.
- c) to sponsor or co-sponsor other topical and special international conferences normally in close cooperation with national and/or regional organisations and to give financial support (grants or guarantees), as a grant to organising committees for such meetings or as a travel grant to participants.

Previous International Congresses on Acoustics

Dates and locations of past congresses of the International Commission for Acoustics:

01 ICA 1953 Delft, Netherlands 10 ICA 1980 Sydney, Australia 02 ICA 1956 Cambridge, USA 11 ICA 1983 Paris, France 03 ICA 1959 Stuttgart, Germany 12 ICA 1986 Toronto, Canada 04 ICA 1962 Copenhagen, Denmark 13 ICA 1989 Belgrade, Yugoslavia 05 ICA 1965 Liege, Belgium 14 ICA 1992 Beijing, China 06 ICA 1968 Tokyo, Japan 15 ICA 1995 Trondheim, Norway 16 ICA 1998 Seattle, USA 07 ICA 1971 Budapest, Hungary 08 ICA 1974 London, England 17 ICA 2001 Rome, Italy 09 ICA 1977 Madrid, Spain 18 ICA 2004 Kyoto, Japan

ICA Board

President: Philip A. Nelson Vice-President: Suk Wang Yoon Secretary-General: Sonoko Kuwano

Treasurer: Hugo Fastl
Past-President: Gilles Daigle

Members: Ewald Benes Phillipe Blanc-Benon Douglas Cato

Samir N.Y. Gerges Chaohuan Hou Roberto Pompoli Nikolai A. Dubrovsky Juan A. Gallego-Juarez

Member Societies:

Argentina: Asociacion de los Acústicos Argentinos

Australia: Australian Acoustical Society

Austria: Österreichischee Gesellschaft für Akustik

Belarus: Belarusian Acoustical Society
Belgium: Association Belge des Acousticiens/

Belgische Akoestische Vereniging Brazil: Sociedade Brasileira de Acustica Canada: Canadian Acoustical Association Chile: Sociedad Chilena de Acústica China: Acoustical Society of China Croatia: Acoustical Society of Croatia Czech Republic: Czech Acoustical Society Denmark: Danska Akustiska Sällskapet Egypt: Acoustical Society of Egypt

France: French Acoustical Society Germany: Deutsche Gesellschaft für Akustik

Finland: Acoustical Society of Finland

Hong Kong: Hong Kong Institute of Acoustics Hungary: OPAKFI

India: Acoustical Society of India
Italy: Associazione Italiana di Acustica
Japan: Acoustical Society of Japan
Korea: Acoustical Society of Korea
Spanish Acoustical Society -SEA-

Charles E. Schmid Antoni Sliwinski

Latvia: Latvian Acoustical Society Lithuania: Lithuanian Acoustical Society Mexico: Mexican Institute of Acoustics

Netherlands: Nederland Akoestisch Genootschap New Zealand: New Zealand Acoustical Society Norway: Norwegian Acoustical Society

Peru: Sociedad Peruana de Acústica

Poland: Polish Academy of Sciences Committee of Acoustics

Poland: Polish Acoustical Society

Portugal: Sociedade Portuguesa de Acústica Russia: East-European Acoustical Association

Russia: Russian Acoustical Society Slovakia: Slovak Acoustical Society Slovenia: Slovenian Acoustical Society

South Africa: Southern African Acoustics Institute

Spain: Sociedad Española de Acústica Sweden: Svenska Akustiska Sällskapet Switzerland: Swiss Acoustical Society Turkey: Turkish Acoustical Society United Kingdom: Institute of Acoustics U.S.A.: Acoustical Society of America

U.S.A.: Institute of Noise Control Engineering of the U.S.A.

Yugoslavia: Acoustical Society of Yugoslavia

Profile

The Spanish Acoustical Society (Sociedad Española de Acústica, SEA) was founded in 1969 as a non-for-profit scientific and technical association. Its primary goal is to enhance the development of Acoustics in Spain.

The specific objectives of SEA are:

- to promote continuous progress in all fields of Acoustics,
- to foster Research and Development in Science and Technology of Acoustics, and its applications,
- to support and contribute with technical advice to Administration, Companies and Associations activities seeking the improvement on acoustic environment, its control, and its influence on populations welfare
- to host and organize national and international meetings and conferences as forum for discussion and exchanges
 of knowledge and experiences among specialists,
- to publish regularly the technical journal, Revista de Acústica

Spanish Acoustical Society (SEA) links with other Acoustics bodies at national and international level are a fundamental component of its character:

- Since its origin, SEA is in close relationship with Acoustics Institute of the Spanish Scientific Research Council.
- Since the beginning, SEA has cooperated with the acoustical societies of other countries, particularly those in Europe and Iberoamerica.
- SEA is a founding member of the European Acoustics Association —EAA, International Commission for Acoustics—ICA, and Iberian Federation of Acoustics—FIA.
- SEA is also member of the Spanish Committee of Audiophonology- CEAF, Bureau International d ´Audiophonologie— BIAP,
 International Institute of Noise Control Engineering I-INCE, and International Institute of Sound and Vibration— IISV.

Every year, SEA celebrates a national congress, TECNIACÚSTICA, in different cities of Spain to promote the development of Acoustics in academia and private sector, providing a common space for exchange and reporting about latest research developments and technical advances. In parallel to the annual congress, a technical exhibition of products and services is organized- EXPOACÚSTICA.

We would like to highlight other significant meetings organized by SEA:

- 9th International Congress on Acoustics, Madrid, 1977, with satellite symposia in Barcelona and Sevilla. This congress met together 1,500 participants from all over the world, and near 1,000 papers were presented. We are fortunate enough to celebrate again, 30 years later, the 19th edition of this ICA congress in Madrid in 2007.
- 8th FASE Symposium on Environmental Acoustics, Zaragoza, 1989;

- 11th FASE Symposium on Acoustical Materials and Ultrasonic Transducers, Valencia 1984;
- Conference on "Environmental Noise in Urban Areas", Barcelona, 1990;
- International conference on "Noise in Urban Areas", Madrid, 1991;
- International Conference on the "Acoustic Quality of Concert Halls" in Madrid in 1994, on the occasion of SEA's 25th anniversary;
- 2nd Iberian Congress on Acoustics and an EAA Symposium on Architectural Acoustics, Madrid, 2000.
- FORUM ACUSTICUM, Sevilla 2002

SEA BOARD

Honorary President: Andrés Lara Sáenz President: Antonio Pérez-López Vice-Presidents:

J. Salvador Santiago Páez Amando García Rodríguez

General Secretary: Antonio Calvo-Manzano

Treasuree: Julio González Suárez

Members:
Harald Aagesen
Miguel Arana Burgui
Higini Arau Puchades
Joan Casamajó Monclus
Azucena Cortes Liendo
Francesc Daumal Doménech
Ana Delgado Portela
César Díaz Sanchidrian
Ana Espinel Valdivieso

Juan Antonio Gallego Juárez Juan José Martínez Requena Antonio Moreno Arranz Plácido Perera Melero Carlos Ranz Guerra José María Ruiz Pérez Javier Serra María-Tomé Teofilo Zamarreño García

Institute of Acoustics -IA- CSIC

Profile

The Instituto de Acústica-CSIC main activity is to deepen in the knowledge of the generation, propagation, attenuation and detection of waves and sonic and ultrasonic perturbations, as well as to develop related technologies. This activity has an important incidence on the society by improving the sound environment through the noise control and the increment of the industrial production quality and so reaching new techniques and new and more efficient processes with care of the ambient. The Instituto de Acústica-CSIC is, by now, the national reference centre in those disciplines that are the subject of its work.

The Instituto de Acústica was created in 1976 from the Acoustics Department of the former CIF "Leonardo Torres Quevedo". This first nucleus dealt with Electroacoustics and Ultrasound.

At the beginning of the sixties lines like Noise and Underwater Acoustics, were introduced. In 1978, the Institute was structured in three units: Environmental Acoustics, Radiation and Propagation and Ultrasound, altogether with two Service Units: Information and Documentation and Technical Assistance and Metrology.

The Instituto is now formed by two Departments Environmental Acoustics and Ultrasonic Signals, Systems and Technologies and two Service Units: Administration and Technical Assistance.

The Instituto de Acústica is located on the Serrano Campus of the CSIC at Serrano, 144. The Instituto de Acústica together with the Instituto de Física Aplicada (Institute of Applied Physics) and the Instituto de Automática Industrial (Institute for Industrial Automation) form the Centro de Tecnologías Físicas (Physics Technologies Centre), "Leonardo Torres Quevedo".

The Instituto de Acústica and the Instituto de Física Aplicada, together with some other small units, share common services that will be enumerated later.

The Instituto de Acústica was the first research centre devoted to Acoustics that was created in our country. Although, in posterior years there have appeared some other centres that have acoustics as one of their main concerns, mainly at Universities, there is no other centre in Spain with a field coverage as extensive as our Institute and it does exist no other centre with an experimental infrastructure as important as the one owned by the Instituto de Acústica. This primacy together with the relationship that the Instituto de Acústica maintains with centres, from Europe and USA, place the Instituto de Acústica as a reference in Spain.

The reference position is seen activated by the formative tasks created in other centres from people who temporarily belonged to the Institute. The centre imparts numerous postgraduate, pre and post doctoral courses in cooperation with or attended to the Institute.

ding the demands of Spanish Universities, Professional Colleges, Enterprise Associations and the local Autonomous and State Administrations. When no Courses are involved, this collaboration shows up in Conferences, consultancies and assessment and expert appraisals. The Instituto de Acústica co-organizes, every year, with the Acoustical Society of Spain, SEA, and the Acoustical Society of Portugal, SPA, and the punctual collaboration of specific University Centres, the Acoustics Conferences, Tecniacustica. In these Conferences, the past year scientific and technical acoustical activity, is presented.

Since 1996, when the Acoustical Society of Portugal joined in, these Conferences have become international events. After the 2004 Conference held in Guimaraes (Portugal) laboratories and centres from Germany, Italy and France have adhered to this initiative.

Thanks to the Institute involvement in the management of Acoustical Conferences, the International Commission on Acoustics has appointed our Institute, together with the Acoustical Society of Spain, to organise the XIX International Congress on Acoustics that will be held in Madrid in September 2007. Professor Andres Lara, who was the firs director of the Instituto de Acústica, will be the President of Honour while our Research Professor Juan Antonio Gallego Juárez will be the executive President.

The Institute activities place it inside the Applied Research field. Its activities are grouped within thematic lines framed in the multidisciplinary character of Acoustics. Let us just mention that these activities go from Medical Sciences, to Oceanographic, through the Environment, Material Engineering, Architecture, Music, Comfort, Nourishment, and Health.

IA BOARD

Director: Carlos Ranz Guerra

Vice-director: Francisco Montero de Espinosa

Heads of Department: José Salvador Santiago Páez; Tomás Gómez Alvarez Arenas

Manager: Emilio Mateos Jiménez

2. Sponsors

Ministerio de Educación y Ciencia
Ministerio de Medio Ambiente
Ministerio de Vivienda
Comunidad de Madrid
Ayuntamiento de Madrid
Consejo Superior de Investigaciones Científicas
Colegio Oficial de Ingenieros Tecnicos de Telecomunicacion
Fundación Ramón Areces
International Society of Electrochemistry
Rockwool

3. Congress Venue

Palacio Municipal de Congresos -Campo de las Naciones- Municipal Conference Centre Avda. de la Capital de España Madrid, s/n.

E-28042 Madrid. Spain. Phone: 0034 917 220 400 Fax: 0034 917 210 607

Web: http://www.madridespaciosycongresos.com/palacio/index i.cfm

The Municipal Conference Centre -PMC- is an iconic building, located at the "Campo de las Naciones", a new exhibition and financial area in the city of Madrid. It is very easily accessed both from the city centre and the Barajas International Airport Madrid-Barajas.

Parking facilities: 503 spaces.

4. Structure of the Congress Building (PMC), Conference Rooms and other services

The PMC consists in three main blocks:

The Ground Floor central area: Auditorium A, Registration Desks and main lobby. Ground Floor: Congress Secretariat, Exhibition Area, Posters Area, Cafeteria.

The left wing: Conference rooms and other services in four levels

1st level - Conference Rooms L-101, L-102, L-103

- Poster Area

2nd level - Conference Rooms L-201, L-202, L-203

3rd level - Restaurant

4th level - Conference Rooms L-401, L-402

The right wing: Conference rooms and other services in three levels

1st level - Conference Rooms R-101, R-102, R-103

2nd level - Conference Rooms R-201, R-202, R-203, R-204

4th level - Conference Room R-401

- Reception of the individual presentations: R-402
- Internet Rooms: R-403, R-404, R-405



5. General Programme

ICA2007MADRID - GENERAL PROGRAMME												
Sept.	Sunday-2nd	Monday-3rd	Tuesday-4th	Wednesday-5th	Thursday-6th	Friday-7th						
Hours		12.16			1/2							
09:00		Registration	Sessions	Sessions	Sessions	Sessions						
10:30		Opening Ceremony	S.02	S.04	S.06	S.08						
12:00		Opening Lecture PL-001	Plenary Lecture PL-002	Plenary Lecture PL-003	Plenary Lecture PL-004	Plenary Lecture PL-005						
13:00		Welcome				Closing Act						
	Registration	Cocktail & Tapas	Lunch break	Lunch break	Lunch break	Farewell Cocktail & Tapas						
15:00		Sessions S.01	Sessions S.03	Sessions S.05	Sessions S.07							
18:00			Technical	Technical	Technical							
19:00			demostrations Musical	demostrations Musical	demostrations							
			Performance	Performance								
19:30					Congress Dinner							
	WORKSHOP			,								
	Tuesday, 4th	9 h to 12 h - 15 h	n to 18 h, Room L-202	2 - Workshop on "Educ	ation in Noise Contro	Engineering"						

6. EXPOACUSTICA 2007

EXPOACUSTICA® 2007 MADRID, an international technical exhibition of products and services in Acoustics and Vibrations, will be held jointly with the ICA2007MADRID.

EXPOACUSTICA® 2007 MADRID will present the most recent novelties in products, equipments, materials and services related with the different fields of acoustics, thus offering an excellent opportunity for the companies of the sector to show their performances in:

- Acoustic engineering
- Acoustic materials
- Acoustic screens
- Acoustical treatments
- Anti-vibration systems
- Computer applications
- Equipment and instruments for measurement and analysis
- Noise Mapping & Noise Prediction

The Exhibition will be located at Ground Floor in the Congress venue.

Booth No.	Exhibitors	Booth No.	Exhibitors
1	Alava Ingenieros - 01dB	13	MSC Software Simulating Reality S.A.
2	Brüel & Kjær	14	Saint-Gobain-Isover
3	Alava Ingenieros - Head Acoustic	15	Acoustics Engineering
4	Brüel & Kjær	16	AECOR
5	Alava Ingenieros - LMS - Spectronics-Oros	17	Chova
6	Acusttel	18	EAA-Acoustics'08 París
7	Alava Ingenieros - Svantek	19	Complaistec. AIE
8	Rockwool	20	ICA-2010 Sydney
9	Cesva Instruments	22	12A2
10	G.R.A.S. Sound & Vibration A/S	24	ESI Group
11	Aries / Norsonic	26	Sonogamma
12	AAC Centro de Acústica Aplicada. Sound Plan		

Technical Demonstrations

TD-001	Tuesday 4th 18:00 hours, Room L-201 by Brüel & Kjær
TD-002	Wednewsday 5th 18:00 hours Room L-201 by Alava Ingenieros
TD-003	Thursday 6th 18:00 hours, Room L-201 by Cesva Instruments

7. Social activities

The ICA2007MADRID Organization has foreseen the development of a social programme of activities for both registered congress members and accompanying persons.

- Monday, 3rd: Opening Ceremony, Musical Performance and Welcome Cocktail&Tapas
- Tuesday, 4th: Musical Performance
- Wednesday, 5th: Musical Performance
- Thursday, 6th: Dinner congress (Optional)
- Friday, 7th: Closing Act and Farewell Cocktail&Tapas

All these activities, cocktail&tapas and musical performances, except the Congress Dinner, are included in the Participants and Accompanying Persons Registration Fee.

8. Programme for Accompanying Persons

To make the stay in Madrid pleasant for the accompanying persons, the following guided tours (included in the registration fee of the accompanying persons) will be organized:

- T1- Tuesday 4th Morning- Madrid sightseeing tour and visit to the Royal Palace
- T2- Wednesday, 5th Full day, including lunch- El Escorial Monastery
- T3- Thursday, 6th Morning Prado Museum and Reina Sofia Museum

Important note.- The accompanying persons must be pre-registered for the guided tours.

Departure of the buses: Congress venue at the 09:30 hours.

9. Souvenir of the Congress — "Puerta de Alcalá" (Alcala Gate) Symbol of Madrid

The Puerta de Alcalá is one of the most significative monuments of Madrid, together with the nearby Cibeles Fountain. It was a design of the architect Francesco Sabatini and built by order of King Carlos III, the so called "Best Mayor of Madrid". It is located at the Plaza de la Independencia, at the crossing of Alcalá, Alfonso XII, Serrano and Salustiano Olózaga and near the Puerta de España of the Retiro Gardens. The name of the gate derives from the fact that it is on the road from Madrid to Alcalá de Henares.



10. CONGRESS PROGRAMME

10. Congress Programme

10.1. Plenary Lectures

Monday, 3rd - 11:30 h. Auditorium A

PL-001. "Acoustics for the 21st Century" (Opening Lecture)

Juan A. Gallego-Juárez - Spain

Research Professor, Ultrasonics

Higher Council for Scientific Research -CSIC-

Instituto de Acústica, Madrid

Session chair person: Andrés Lara, President of Honour of the Spanish Acoustical Society

Tuesday, 4th - 12:00 h. Auditorium A

PL-002. "Psychological evaluation of sound environment along temporal stream"

Sonoko Kuwano - Japan

Professor of the Laboratory of Environmental Psychology

Graduate School of Human Sciences, Osaka University

Professor of the Department of Environmental Engineering, Graduate

School of Engineering, Osaka University

Session chair person: Ichiro Yamada, Head of Aviation Environment Research Center, AEIF

Wednesdy, 5th - 12:00 h. Auditorium A

PL-003. "Cavitation and Cetacean: Bubble Acoustics by whales and dolphins"

Timothy G. Leighton - U.K.,

Professor of Ultrasonics and Underwater Acoustics, Centre for Ultrasonics and Underwater Acoustics

Director of Postgraduate Research, Institute of Sound and Vibration Research

University of Southampton, U.K.

Session chair person: Philip A. Nelson, President of the International Comission for Acoustics

Thursday, 6th – 12:00 h. Auditorium A

PL-004. "Numerical Methods in Acoustics: Facts, Fears, Future"

Otto von Estorff - Germany

Director Institut für Modellierung und Berechnung

Technische Universität Hamburg

Session chair person: Michael Vorländer, President of the European Acoustics Association

Friday, 7th - 12:00 h. Auditorium A

PL-005. "From Speech Privacy to Speech Security"

John S. Bradley - Canada

Principal Research Officer

Institute for Research in Construction

National Research Council, Ottawa

Session chair person: Gilles Daigle, President-elect of the Acoustical Society of America

10.2. Technical Sessions

10.2.1. Subject Classification Criteria

The Invited Papers -IP- and Contributed Papers are distributed in 14 Thematic Fields; each Field comprises several Structured Sessions -SS- on specific topics; within each SS are included Invited Papers and Contributed Papers.

The Contributed Papers not classified in the specific topics of the SS have been included in each Field in the Session "General".

10.2.2. Identification paper codes

- Thematic Fields, three capital letters with the initials of the title of the field.
- Structured Sessions -SS-, with the three letter code of the Field in which they are included, followed by the two digits that indicate the order in the SS.
- Papers. The reference of each paper is composed by the code (three letters and two numbers) of the Field and Structured Session, followed by the tree digits that normally indicate the order of the presentation of the papers in the SS
- Invited Papers -IP-. The invited papers included in the different structured session, have the initial IP after the paper code

Example: RBA-01-005-IP.

- RBA: This paper is included: in the SS- RBA- Room and Building Acoustics
- 01: First Session in this Field: 01- Acoustics and sustainable building
- 005: Paper that will be in the 5th place in the session SS-RBA-01
- IP: Invited Paper

10.2.3. Development of the oral sessions

The Technical Sessions will be held in parallel, from Monday 3th September (afternoon) until Friday 7th September (noon). Morning sessions from 9.00 until 12:00 h; afternoon sessions from 15:00 until 18:00 h.

Session Chairs are kindly requested to follow in a strict way the time sequence indicated by the acoustic signals, to permit all participants to atend a paper that could be presented in another room. If an author is not in the room to present the paper, the Session Chair is asked either to allow additional discussion of papers already presented, or to declare a recess until the next presentation, so that subsequent papers are not presented ahead of the scheduled times.

10.2.4. Poster sessions

Morning sessions: 10.00 h - 13.45 h, Tuesday to Thrusday Afterrnoon sessions: 14.15 h - 18:00 h, Tuesday to Thrusday

The authors of the posters are requested to install them in the assigned board (1.80 m) height x 0.80 m wide) between 9.30 h and 10 h for the morning sessions, and between 13.45 h and 14.15 h for the afternoon sessions. The organizers will provide the fastening material. The format of the poster presentation is free. The author is kindly asked to dismantle the poster at the end of the session.

Recommended presence of the author(s) of the poster:

- Morning session from 13:00 h to 13;45 h.
- Afternoon sessions from 14:15 h to 15:00 h.

10.2.5. Structured Sessions

BIO - Bioacoustics

BIO-01 Animal acoustics

BIO-02 Auditory neuroscience and bioacoustics

BIO-03 Marine bioacoustics

CAS- Communication Acoustics, including Speech

CAS-01 Communication Acoustics

CAS-02 Oto-acoustic emissions

CAS-03 Speech acoustics

CAS-04 CAS-General

COM- Computational Acoustics

COM-01 Advances and applications of computational methods for sound radiation and scattering

COM-02 Boundary element methods in acoustics

COM-03 Computational methods in combustion noise

COM-04 Computational methods in fluid-structure interaction

COM-05 Numerical simulation of cavities and indoor spaces

COM-06 COM-General

ELE-Electro-acoustics and Audio Engineering

ELE-01 Loudspeakers and sound reinforcement

ELE-02 Microphones

ELE-03 Sensor array systems

ELE-04 ELE-General

ENV- Environmental Acoustics

ENV-01 Alternative mapping of the urban sound environment

ENV-02 Community response to noise

ENV-03 Environmental noise policy

ENV-04 Long-term evaluation of the impact of environmental noise

ENV-05 Low frequency noise

ENV-06 Noise barriers

ENV-07 Noise mapping and action planning

ENV-08 Prediction of sound propagation in urban environment

ENV-09 Sound quality outdoors

ENV-10 Soundscape and cultural perception

ENV-11 Transportation noise

MUS-Musical Acoustics

MUS-01 Acoustics of stringed instruments

MUS-02 Ancient instruments and traditional musical instruments

MUS-03 Choir acoustics

MUS-04 Linear and nonlinear modes in musical acoustics

MUS-05 Physical models and virtual musical instruments

MUS-06 Production and perception of singing voices

MUS-07 MUS-General

NLA-Non-linear Acoustics

NLA-01 Cavitation and bubbly media

NLA-02 Generation, measurement and modelling of high power sound waves in liquid or air

NLA-03 Nonlinear acoustics in medical ultrasound

NLA-04 Nonlinear dynamic and chaos

NLA-05 Nonlinear interactions of vibration modes in solid structures

NLA-06 Nonlinear methods in the evaluation of material microdamage

NLA-07 Numerical methods in non-linear acoustics

NLA-08 Sonic boom

NLA-09 Subharmonic generation in acoustic resonators

NLA-10 NLA-General

NOI- Noise: sources and control

NOI-01 Aircraft noise

NOI-02 Automotive acoustics

NOI-03 Industrial noise

NOI-04 Noise measurements

NOI-05 Outdoor sound propagation

NOI-06 Railway Noise

NOI-07 NOI-General

PHY-Physical Acoustics

PHY-02 Acoustics of porous media

PHY-03 Acoustics of unconsolidated granular media

PHY-04 Adaptive and active materials

PHY-05 Aeroacoustic sensing for urban warfare applications

PHY-06 Dispersion and attenuation of sound in various materials

PHY-07 Standing waves

PHY-08 PHY-General

PPA-Physiological and Psychological Acoustics

PPA-01 Algorithmic music analysis and processing

PPA-02 Applications of psychoacoustics

PPA-03 Audio-visual interaction

PPA-04 Audition of the sound source and its properties

PPA-05 Binaural hearing and spatial perception

PPA-06 Binaural technology

PPA-07 Computational models of the auditory system

PPA-08 Virtual and real auditory environments-auditory display

PPA-09 PPA-General

RBA- Room and Building Acoustics

RBA-01 Acoustics and sustainable building

RBA-02 Acoustics of ancient theatres: their use for acoustical performances

RBA-03 Airborne sound insulation

RBA-04 Class room acoustics

RBA-05 Computational methods for room acoustics

RBA-06 Concert hall acoustics

RBA-07 Measuring methods and standards in room and building acoustics

RBA-08 Microperforated materials

RBA-09 New materials and systems in building acoustics

RBA-10 Open-plan office acoustics

RBA-11 Reflections, scattering and diffraction in room acoustics

RBA-12 Sound insulation between dwellings

RBA-13 Spatial hearing in concert auditoria

RBA-14 Structure borne sound sources (Impact noise and equipment noise)

RBA-15 Virtual acoustics and auralisation methods

RBA-16 RBA-General

SAV- Structural Acoustics and Vibration

SAV-01 Applications of analytical techniques in general

SAV-02 Simulation and environmental factors

SAV-03 SAV-General

ULT- Ultrasonics

ULT-01 Acoustic radiation force and biomedical applications

ULT-02 Air-borne transducers for ultrasonic detection

ULT-03 Analytical and numerical (FEM) transducer modelling

ULT-04 Capacitive ultrasonic transducers: Modelling and technology

ULT-05 HIFU in medical therapy

ULT-06 High intensity acoustics near surfaces and interfaces

ULT-07 High-power ultrasonic transducers

ULT-08 High-power ultrasound in large-scale sonochemical reactors

ULT-09 New power ultrasonic processes and systems

ULT-10 Signal processing for ultrasonic imaging & detection

ULT-11 Sonochemical water treatment

ULT-12 Sonoelectrochemical processes

ULT-13 Tissue characterization by ultrasound

ULT-14 Ultrasonic manipulation of micron-sized particles and cells

ULT-15 Ultrasonic transducer systems for imaging & detection

ULT-16 Ultrasound contrast agents

ULT-17 ULT-General

UNW- Underwater Acoustics

UNW-01 Inversion methods in underwater acoustics

UNW-02 Scattering

UNW-03 Seafloor characterization, imaging and GIS

UNW-04 UNW-General

10.2.6. Daily Timetable

10.2.6.1 Oral Session

Session S.01 - Monday 3rd - Afternoon

Hours	Rooms							
	L - 101	L - 102	L - 103	L - 201	L - 202	L - 203	L - 401	L - 402
15:00	RBA-02-001	RBA-13-001	RBA-10-001	ENV-10-001	ENV-03-001	NOI-06-001	PPA-07-001	PPA-04-001
15:20	RBA-02-002	RBA-13-002	RBA-10-002	ENV-10-002	ENV-03-002	NOI-06-002	PPA-07-002	PPA-04-002
15:40	RBA-02-003	RBA-13-003	RBA-10-003	ENV-10-003	ENV-03-003	NOI-06-003	PPA-07-003	PPA-04-003
16:00	RBA-02-004	RBA-13-004	RBA-10-004	ENV-10-004	ENV-03-004	N0I-06-004	PPA-07-004	PPA-04-004
16:20	RBA-02-005	RBA-13-005	RBA-10-005	ENV-10-005	ENV-03-005	NOI-06-005	PPA-07-005	PPA-04-005
16:40	RBA-02-006	RBA-13-006	RBA-10-006	ENV-10-006	RBA-05-019	NOI-06-006	PPA-07-006	PPA-01-001
17:00	RBA-02-007	RBA-03-005	RBA-10-007	ENV-10-007	RBA-05-020	NOI-06-007	PPA-07-007	PPA-01-002
17:20	RBA-02-008	RBA-14-014	RBA-10-008	ENV-10-008	RBA-05-021	NOI-06-008	PPA-07-008	PPA-01-003
17:40	RBA-02-009	RBA-14-015	RBA-10-009			NOI-06-009	PPA-07-009	PPA-01-004

Session S.01 - Monday 3rd - Afternoon

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
15:00	BIO-01-001	COM-05-001	UNW-01-001	NLA-09-001		ULT-14-001	ULT-06-001	MUS-02-001
15:20	BIO-01-002	COM-05-002	UNW-01-002	NLA-09-002		ULT-14-002	ULT-06-002	MUS-02-002
15:40	BIO-01-003	COM-05-003	UNW-01-003	NLA-09-003		ULT-14-003	ULT-06-003	MUS-02-003
16:00	BIO-02-001	COM-05-004	UNW-01-004	NLA-09-004	PHY-02-001	ULT-14-004	ULT-06-004	MUS-02-004
16:20	BIO-02-002	COM-05-005	UNW-01-005	NLA-03-001	PHY-02-002	ULT-14-005	ULT-07-001	MUS-02-005
16:40	BIO-02-003	COM-05-006	UNW-02-001	NLA-03-002	PHY-02-003	ULT-14-006	ULT-07-002	MUS-02-006
17:00	BIO-03-001	COM-05-007	UNW-02-002	NLA-03-003	PHY-03-001	ULT-14-007	ULT-07-003	MUS-02-007
17:20	BIO-03-002	COM-05-008	UNW-02-003	NLA-03-004	PHY-03-002	ULT-14-008	ULT-07-004	MUS-02-008
17:40	BIO-03-003	COM-05-009	UNW-02-004		PHY-03-003	ULT-14-009	ULT-07-005	MUS-02-009
18:00			18 3110			ULT-14-010		
18:20					1000	ULT-14-011		

Session S.02 - Tuesday 4th - Morning

Hours	Rooms		W.	- ///	100		- 11/	_	
	L - 101	L - 102	L - 103	L - 201	L - 202	L - 203	L - 401	L - 402	
09:00	RBA-06-001	RBA-15-001	RBA-10-010	ENV-02-001	Workshop	NOI-04-001	PPA-07-010	PPA-03-001	
09:20	RBA-06-002	RBA-15-002	RBA-10-011	ENV-02-002	Workshop	NOI-04-002	PPA-07-011	PPA-03-002	
09:40	RBA-06-003	RBA-15-003	RBA-10-012	ENV-02-003	Workshop	NOI-04-003	PPA-07-012	PPA-03-003	
10:00	RBA-06-004	RBA-15-004	RBA-10-013	ENV-02-004	Workshop	NOI-04-004	PPA-07-013	PPA-03-004	
10:20	RBA-06-005	RBA-15-005	RBA-07-001	ENV-02-005	Workshop	NOI-04-005	PPA-07-014	PPA-03-005	
10:40	RBA-06-006	RBA-15-006	RBA-07-002	ENV-02-006	Workshop	NOI-04-006	PPA-07-015	PPA-03-006	
11:00	RBA-06-007	RBA-15-007	RBA-07-003	ENV-02-007	Workshop	N0I-04-007	PPA-07-016	PPA-03-007	
11:20	RBA-06-008	RBA-15-008	RBA-07-004	ENV-02-008	Workshop	NOI-04-008	PPA-07-017	PPA-03-008	
11:40	RBA-06-009	RBA-15-009	RBA-07-005	ENV-02-009	Workshop	NOI-04-009		PPA-03-009	
12:00	PLENARY LECTURE PL-002 - AUDITORIUM A								
13:00					LUNCH BREAK				

Session S.02 - Tuesday 4th - Morning

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
09:00	ELE-01-001	COM-01-001	UNW-02-005	NLA-01-001	PHY-03-004	ULT-01-001	ULT-07-006	MUS-03-001
09:20	ELE-01-002	COM-01-002	UNW-03-001	NLA-01-002	PHY-03-005	ULT-01-002	ULT-07-007	MUS-03-002
09:40	ELE-01-003	COM-01-003	UNW-03-002	NLA-01-003	PHY-03-006	ULT-01-003	ULT-09-001	MUS-03-003
10:00	ELE-01-004	COM-01-004	UNW-03-003	NLA-01-004	PHY-03-007	ULT-01-004	ULT-09-002	MUS-03-004
10:20	ELE-01-005	COM-01-005	UNW-03-004	NLA-01-005	PHY-03-008	ULT-01-005	ULT-09-003	MUS-03-005
10:40	ELE-01-006	COM-01-006	UNW-04-001	NLA-01-006	PHY-03-009	ULT-01-006	ULT-09-004	MUS-03-006
11:00	ELE-01-007	COM-01-007	UNW-04-002	NLA-01-007	PHY-03-010	ULT-01-007	ULT-09-005	MUS-06-001
11:20	ELE-01-008	COM-01-008	UNW-04-003	NLA-01-008	PHY-03-011	ULT-01-008	ULT-09-006	MUS-06-002
11:40	ELE-01-009	COM-01-009	UNW-04-004	NLA-01-009	PHY-03-012	ULT-01-009	ULT-09-007	MUS-06-003
12:00	PLENARY LECTURE PL - 002 - AUDITORIUM A							
13:00				LUNCH BRE	AK			

Session S.03 - Tuesday 4th - Afternoon

Hours	Rooms								
	L -101	L -102	L -103	L -201	L -202	L -203	L -401	L -402	
15:00	RBA-06-010	RBA-01-001	RBA-07-006	ENV-05-001	Workshop	NOI-04-010	PPA-02-001	PPA-03-010	
15:20	RBA-06-011	RBA-01-002	RBA-07-007	ENV-05-002	Workshop	NOI-04-011	PPA-02-002	PPA-03-011	
15:40	RBA-06-012	RBA-01-003	RBA-07-008	ENV-05-003	Workshop	NOI-04-012	PPA-02-003	PPA-03-012	
16:00	RBA-06-013	RBA-01-004	RBA-07-009	ENV-05-004	Workshop	NOI-04-013	PPA-02-004	PPA-03-013	
16:20	RBA-06-014	RBA-01-005	RBA-07-010	ENV-05-005	Workshop	NOI-04-014	PPA-02-005	PPA-03-014	
16:40	RBA-06-015	RBA-01-006	RBA-07-011		Workshop	NOI-04-015	PPA-02-006	PPA-08-001	
17:00	RBA-06-016	RBA-01-007	RBA-07-012		Workshop	NOI-02-001	PPA-02-007	PPA-08-002	
17:20	RBA-06-017	RBA-01-008	RBA-07-013		Workshop	NOI-02-002	PPA-02-008	PPA-08-003	
17:40	RBA-06-018	RBA-01-009	RBA-07-014		Workshop	NOI-02-003	PPA-02-009	PPA-08-004	
18:00	TECHNICAL DEMONSTRATION TD - 001 - R00M L-201								
18:30			ML	ISICAL PERFORMA	NCE - AUDITORIUN	1 A			

Session S.03 - Tuesday 4th - Afternoon

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
15:00	ELE-01-010	COM-01-010	UNW-04-005	NLA-01-010	PHY-05-001	ULT-02-001		MUS-06-004
15:20	ELE-01-011	COM-02-001	UNW-04-006	NLA-01-011	PHY-05-002	ULT-02-002	ULT-09-009	MUS-06-005
15:40	ELE-01-012	COM-02-002	UNW-04-007	NLA-01-012	PHY-05-003	ULT-02-003	ULT-09-010	MUS-06-006
16:00	ELE-01-013	COM-02-003	UNW-04-008	NLA-01-013	PHY-05-004	ULT-02-004	ULT-09-011	MUS-06-007
16:20	ELE-01-014	COM-02-004	UNW-04-009	NLA-01-014	PHY-05-005	ULT-02-005	ULT-09-012	MUS-06-008
16:40	ELE-01-015	COM-02-005	UNW-04-010	NLA-01-015	PHY-04-001	ULT-04-001	ULT-09-013	MUS-06-009
17:00	ELE-01-016	COM-02-006	UNW-04-011	NLA-01-016	PHY-04-002	ULT-04-002	ULT-09-014	MUS-06-010
17:20	ELE-01-017	COM-02-007	UNW-04-012	NLA-01-017	PHY-04-003	ULT-04-003	ULT-13-001	MUS-06-011
17:40	ELE-01-018	COM-02-008	UNW-04-013	NLA-01-018	PHY-04-004	ULT-04-004	ULT-13-002	MUS-06-012
18:00	TECHNICAL DEMONSTRATION TD - 001 - R00M L201							
18:30			MU	ISICAL PERFORMA	NCE - AUDITORIUM	1 A		

Session S.04 - Wednesday 5th - Morning

		3	0						
Hours	Rooms	3 1 1 1 1 1	1000		11/10				
	L - 101	L - 102	L - 103	L - 201	L - 202	L - 203	L - 401	L - 402	
09:00	RBA-06-019	RBA-01-010	RBA-07-015	ENV-01-001	ENV-11-001	N0I-02-004	PPA-02-010	PPA-08-005	
09:20	RBA-06-020	RBA-01-011	RBA-07-016	ENV-01-002	ENV-11-002	NOI-02-005	PPA-02-011	PPA-08-006	
09:40	RBA-06-021	RBA-01-012	RBA-07-017	ENV-01-003	ENV-11-003	NOI-02-006	PPA-02-012	PPA-08-007	
10:00	RBA-06-022	RBA-01-013	RBA-07-018	ENV-01-004	ENV-11-004	NOI-02-007	PPA-02-013	PPA-08-008	
10:20	RBA-06-023	RBA-01-014	RBA-07-019	ENV-01-005	ENV-11-005	NOI-02-008	PPA-02-014	PPA-08-009	
10:40	RBA-06-024	RBA-01-015	RBA-07-020	ENV-01-006	ENV-11-006	NOI-02-009	PPA-02-015	PPA-08-010	
11:00	RBA-06-025	RBA-01-016	RBA-07-021	ENV-01-007	ENV-11-007	NOI-01-001	PPA-02-016	PPA-09-008	
11:20	RBA-06-026	RBA-01-017	RBA-07-022		ENV-11-008	NOI-01-002	PPA-02-017	PPA-09-001	
11:40	RBA-06-027	RBA-01-018	RBA-07-023		ENV-11-009	NOI-01-003	PPA-02-018	PPA-09-003	
12:00	PLENARY LECTURE PL-003 - AUDITORIUM A								
13:00				LUNCH	BREAK				

Session S.04 - Wednesday 5th - Morning

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
09:00	ELE-02-001	COM-03-001	NLA-10-001	NLA-08-001	PHY-04-005	ULT-10-001	ULT-13-003	MUS-01-001
09:20	ELE-02-002	COM-03-002	NLA-10-002	NLA-08-002	PHY-04-006	ULT-10-002	ULT-13-004	MUS-01-002
09:40	ELE-02-003	COM-03-003	NLA-10-003	NLA-08-003	PHY-04-007	ULT-10-003	ULT-13-005	MUS-01-003
10:00	ELE-02-004	COM-03-004	NLA-10-004	NLA-08-004	PHY-04-008	ULT-10-004	ULT-13-006	MUS-01-004
10:20	ELE-02-005	COM-03-005	SAV-01-001	NLA-08-005	PHY-06-001	ULT-10-005	ULT-13-007	MUS-01-005
10:40	ELE-02-006	COM-03-006	SAV-01-002	NLA-08-006	PHY-06-002	ULT-10-006	ULT-13-008	MUS-01-006
11:00	ELE-02-007	COM-04-001	SAV-01-003	NLA-08-007	PHY-06-003	ULT-10-007	ULT-13-009	MUS-01-007
11:20	ELE-02-008	COM-04-002	SAV-01-004	NLA-08-008	PHY-06-004	ULT-10-008	ULT-13-010	MUS-01-008
11:40	ELE-02-009	COM-04-003	SAV-01-005	NLA-08-009	PHY-06-005	ULT-10-009	ULT-13-011	MUS-01-009
12:00	PLENARY LECTURE PL-003 - AUDITORIUM A							
13:00				LUNCH	BREAK		·	

Session S.05 - Wednesday 5th - Afternoon

Hours	Rooms								
	L -101	L -102	L -103	L -201	L -202	L -203	L -401	L -402	
15:00	RBA-06-028	RBA-04-001	RBA-07-024	ENV-09-001	ICA GA	NOI-01-004	PPA-02-019	PPA-09-004	
15:20	RBA-06-029	RBA-04-002	RBA-07-025	ENV-09-002	ICA GA	NOI-01-005	PPA-02-020	PPA-09-005	
15:40	RBA-06-030	RBA-04-003	RBA-07-026	ENV-09-003	ICA GA	NOI-01-006	PPA-02-021	PPA-09-006	
16:00	RBA-06-031	RBA-04-004	RBA-07-027	ENV-09-004	ICA GA	NOI-01-007	PPA-02-022	PPA-09-007	
16:20	RBA-06-032	RBA-04-005	RBA-07-028	ENV-09-005	ICA GA	NOI-01-008	PPA-02-023	PPA-09-002	
16:40	RBA-06-033	RBA-04-006	RBA-03-001	ENV-09-006	ICA GA	NOI-01-009	PPA-02-024	PPA-09-009	
17:00	RBA-06-034	RBA-04-007	RBA-03-002	ENV-09-007	ICA GA	NOI-01-010	PPA-02-025	PPA-09-010	
17:20	RBA-06-035	RBA-04-008	RBA-03-003	ENV-09-008	ICA GA	RBA-07-029	PPA-02-026	PPA-09-011	
17:40	RBA-06-036	RBA-04-009	RBA-03-004	ENV-09-009	ICA GA	RBA-07-030	PPA-02-027	PPA-09-012	
18:00	TECHNICAL DEMONSTRATION TD - 002 - R00M L-201								
18:30			MU:	SICAL PERFORMAI	NCE - AUDITORIUM	Α			

Session S.05 - Wednesday 5th - Afternoon

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
15:00	ELE-02-010	COM-06-001	SAV-01-006	NLA-08-010	PHY-06-006	ULT-10-010	ULT-17-001	MUS-01-010
15:20	ELE-02-011	COM-06-002	SAV-01-007	NLA-07-001	PHY-06-007	ULT-10-011	ULT-17-002	MUS-01-011
15:40	ELE-02-012	COM-06-003	SAV-01-008	NLA-07-002	PHY-07-001	ULT-10-012	ULT-17-003	MUS-01-012
16:00	ELE-02-013	COM-06-004	SAV-01-009	NLA-07-003	PHY-07-002	ULT-05-001	ULT-17-004	MUS-01-013
16:20	ELE-02-014	COM-06-005	SAV-01-010	NLA-07-004	PHY-07-003	ULT-05-002	ULT-17-005	MUS-01-014
16:40	ELE-03-001	COM-06-006	SAV-01-011	NLA-07-005	PHY-07-004	ULT-05-003	ULT-17-006	MUS-04-001
17:00	ELE-03-002	COM-06-007	SAV-01-012	NLA-07-006	PHY-07-005	ULT-05-004	ULT-17-007	MUS-04-002
17:20	ELE-03-003	COM-06-008	SAV-01-013	NLA-07-007	PHY-07-006	ULT-05-005	ULT-17-008	MUS-04-003
17:40	ELE-03-004	COM-06-009	SAV-01-014	NLA-07-008	PHY-07-007	ULT-05-006	ULT-17-009	MUS-04-004
18:00			TECHNIC	AL DEMONSTRATIO	N TD - 002 - R00I	M L-201		MUS-04-010
18:30			ML	ISICAL PERFORMA	NCE - AUDITORIUM	1 A		

Session S.06 - Thursday 6th - Morning

Hours	Rooms		19.00		11/1/2			
	L - 101	L - 102	L - 103	L - 201	L - 202	L - 203	L - 401	L - 402
09:00	RBA-05-001	RBA-04-010	RBA-12-001	ENV-07-001	ENV-04-001	NOI-03-001	PPA-02-028	
09:20	RBA-05-002	RBA-04-011	RBA-12-002	ENV-07-002	ENV-04-002	NOI-03-002	PPA-02-029	
09:40	RBA-05-003	RBA-04-012	RBA-12-003	ENV-07-003	ENV-04-003	NOI-03-003	PPA-05-001	
10:00	RBA-05-004	RBA-04-013	RBA-12-004	ENV-07-004	ENV-04-004	NOI-03-004	PPA-05-002	
10:20	RBA-05-005	RBA-04-014	RBA-12-005	ENV-07-005	ENV-04-005	NOI-03-005	PPA-05-003	
10:40	RBA-05-006	RBA-08-001	RBA-12-006	ENV-07-006	ENV-04-006	NOI-07-001	PPA-05-004	
11:00	RBA-05-007	RBA-08-002	RBA-12-007	ENV-07-007	NOI-07-014	NOI-07-002	PPA-05-005	
11:20	RBA-05-008	RBA-08-003	RBA-12-008	ENV-07-008	NOI-07-015	NOI-07-003	PPA-05-006	
11:40	RBA-05-009	RBA-08-004	RBA-12-009	ENV-07-009	NOI-07-016	NOI-07-004	PPA-05-007	
12:00		•	PLE	NARY LECTURE PL	-004 - AUDITORIU	МА		
13:00				LUNCH	BREAK			

Session S.06 - Thursday 6th - Morning

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
09:00	ELE-03-005	COM-06-010	SAV-01-015	NLA-02-001	PHY-07-008	ULT-15-001	ULT-11-001	MUS-04-005
09:20	ELE-03-006	COM-06-011	SAV-02-001	NLA-02-002	PHY-07-009	ULT-15-002	ULT-11-002	MUS-04-006
09:40	ELE-03-007	COM-06-012	SAV-02-002	NLA-02-003	PHY-07-010	ULT-15-003	ULT-11-003	MUS-04-007
10:00	ELE-03-008	CAS-02-001	SAV-02-003	NLA-02-004	PHY-07-011	ULT-15-004	ULT-11-004	MUS-04-008
10:20	ELE-03-009	CAS-02-002	SAV-02-004	NLA-02-005	PHY-08-001	ULT-15-005	ULT-11-005	MUS-04-009
10:40	ELE-03-010	CAS-02-003	SAV-02-005	NLA-02-006	PHY-08-002	ULT-15-006	ULT-11-006	MUS-05-001
11:00	ELE-03-011	CAS-01-001	SAV-02-006	NLA-02-007	PHY-08-003	ULT-15-007	ULT-08-001	MUS-05-002
11:20	CAS-04-003	CAS-01-002	SAV-02-007	NLA-02-008	PHY-08-004	ULT-15-008	ULT-08-002	MUS-05-003
11:40		CAS-01-003	SAV-02-008	NLA-02-009	PHY-08-005	ULT-15-009	ULT-08-003	MUS-05-004
12:00	PLENARY LECTURE PL-004 - AUDITORIUM A							
13:00				LUNCH	BREAK			

Session S.07 - Thursday 6th - Afternoon

Hours	Rooms							
	L -101	L -102	L -103	L -201	L -202	L -203	L -401	L -402
15:00	RBA-05-010	RBA-08-005	RBA-12-010	ENV-08-001	RBA-16-001	NOI-05-001	PPA-05-008	
15:20	RBA-05-011	RBA-08-006	RBA-12-011	ENV-08-002	RBA-16-002	NOI-05-002	PPA-05-009	
15:40	RBA-05-012	RBA-08-007	RBA-12-012	ENV-08-003	RBA-16-003	NOI-05-003	PPA-05-010	
16:00	RBA-05-013	RBA-08-008	RBA-12-013	ENV-08-004	RBA-16-004	NOI-05-004	PPA-05-011	
16:20	RBA-05-014	RBA-08-009	RBA-12-014	ENV-08-005	RBA-16-005	NOI-05-005	PPA-06-001	
16:40	RBA-05-015	RBA-08-010	RBA-14-001	ENV-08-006	RBA-16-006	NOI-05-006	PPA-06-002	
17:00	RBA-05-016	RBA-09-001	RBA-14-002	ENV-08-007	RBA-16-007	NOI-05-007	PPA-06-003	
17:20	RBA-05-017	RBA-09-002	RBA-14-003	ENV-08-008	RBA-16-008	NOI-05-008	PPA-06-004	
17:40	RBA-05-018	RBA-09-003	RBA-14-004	ENV-08-009	RBA-16-009	NOI-05-009	PPA-06-005	
18:00	TECHNICAL DEMONSTRATION TD - 003 - ROOM L201							
19:30	DEPARTURE FOR THE CONGRESS DINNER							

Session S.07 - Thursday 6th - Afternoon

Harris	Deame							
Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
15:00	ELE-04-001	CAS-01-004	SAV-03-001	NLA-04-001	PHY-08-006	ULT-15-010	ULT-08-004	MUS-05-005
15:20	ELE-04-002	CAS-03-001	SAV-03-002	NLA-04-002	PHY-08-007	ULT-15-011	ULT-08-005	MUS-05-006
15:40	ELE-04-003	CAS-03-002	SAV-03-003	NLA-04-003	PHY-08-008	ULT-15-012	ULT-08-006	MUS-05-007
16:00	ELE-04-004	CAS-03-003	SAV-03-004	NLA-04-004	PHY-08-009	ULT-15-013		MUS-05-008
16:20	ELE-04-005	CAS-03-004	SAV-03-005	NLA-04-005	PHY-08-010	ULT-15-014	ULT-03-001	MUS-05-009
16:40	ELE-04-006	CAS-03-005	SAV-03-006	NLA-04-006	PHY-08-011	ULT-16-001	ULT-03-002	MUS-05-010
17:00	ELE-04-007	CAS-03-006	SAV-03-007	NLA-05-001	PHY-08-012	ULT-16-002	ULT-03-003	MUS-05-011
17:20	ELE-04-008	CAS-03-007	SAV-03-008	NLA-05-002	PHY-08-013	ULT-16-003	ULT-03-004	MUS-05-012
17:40	ELE-04-009	CAS-03-008	SAV-03-009	NLA-05-003	PHY-08-014	ULT-16-004	ULT-03-005	MUS-05-013
18:00	ELE-04-015	TECHNIC	CAL DEMONSTRATI	ON TD - 003 - R00	M L-201	ULT-16-008		
19:30			DE	PARTURE FOR THE	CONGRESS DINN	ER		

Session S.08 - Friday 7th - Morning

Hours	Rooms		11.	100	11-16	- 11		_
	L - 101	L - 102	L - 103	L - 201	L - 202	L - 203	L - 401	L - 402
09:00	RBA-11-001	RBA-09-004	RBA-14-005	ENV-08-010	RBA-16-010	NOI-07-005	PPA-06-006	TNA-07-001
09:20	RBA-11-002	RBA-09-005	RBA-14-006	ENV-08-011	RBA-16-011	NOI-07-006	PPA-06-007	TNA-07-002
09:40	RBA-11-003	RBA-09-006	RBA-14-007	ENV-08-012	RBA-16-012	NOI-07-007	PPA-06-008	TNA-07-003
10:00	RBA-11-004	RBA-09-007	RBA-14-008	ENV-08-013	RBA-16-013	NOI-07-008	PPA-06-009	TNA-07-004
10:20	RBA-11-005	RBA-09-008	RBA-14-009	ENV-06-001	RBA-16-014	NOI-07-009	PPA-06-010	TNA-07-005
10:40	RBA-11-006	RBA-09-009	RBA-14-010	ENV-06-002		NOI-07-010		TNA-07-006
11:00	RBA-11-007	RBA-09-010	RBA-14-011	ENV-06-003		NOI-07-011		TNA-07-007
11:20	RBA-11-008	RBA-09-011	RBA-14-012	ENV-06-004		NOI-07-012		TNA-07-008
11:40	RBA-11-009	RBA-09-012	RBA-14-013	ENV-06-005		NOI-07-013		TNA-07-009
12:00	PLENARY LECTURE PL- 005 - AUDITORIUM A							
13:00				CLOSING ACT -	AUDITORIUM A			
13:30		·	·	FAREWELL CO	CKTAIL & TAPAS		·	

Session S.08 - Friday 7th - Morning

Hours	Rooms							
	R-101	R-102	R-103	R-201	R-202	R-203	R-204	R-401
09:00	PHY-08-024	CAS-03-009	SAV-03-010	NLA-06-001	PHY-08-015	ULT-16-005	ULT-12-001	MUS-07-001
09:20	COM-06-013	CAS-03-010	SAV-03-011	NLA-06-002	PHY-08-016	ULT-16-006	ULT-12-002	MUS-07-002
09:40	NLA-10-005	CAS-03-011	CAS-04-001	NLA-06-003	PHY-08-017	ULT-16-007	ULT-12-003	MUS-07-003
10:00	NLA-10-006	CAS-03-012	CAS-04-002	NLA-06-004	PHY-08-018	ULT-17-010	ULT-12-004	MUS-07-004
10:20	NLA-10-007	CAS-03-013	CAS-04-004	NLA-06-005	PHY-08-019	ULT-17-011	ULT-12-005	MUS-07-005
10:40	NLA-10-008	CAS-03-014	BIO-03-004	NLA-06-006	PHY-08-020	ULT-17-012	ULT-12-006	MUS-07-006
11:00		CAS-03-015	BIO-03-005	NLA-06-007	PHY-08-021	ULT-17-013	ULT-12-007	MUS-07-007
11:20		CAS-03-016	BIO-03-006	NLA-06-008	PHY-08-022	ULT-17-014	ULT-12-008	MUS-07-008
11:40		CAS-03-017		NLA-06-009	PHY-08-023	ULT-17-015	ULT-12-009	MUS-07-009
12:00	PLENARY LECTURE PL-005 - AUDITORIUM A							
13:00	CLOSING ACT - AUDITORIUM A							
13:30	FAREWELL COCKTAIL & TAPAS							

10.2.6.1 Poster Session

POSTER SESSIONS

Doord No	Tuesda	ay 4th	Wednes	sday 5th	Thursday 6th		
Board No.	Morning	Afternoon	Morning	Afternoon	Morning	Afternoon	
1	BIO-02-004	ELE-03-012	MUS-07-023	PHY-08-028	RBA-07-032	ULT-10-019	
2	CAS-01-005	ELE-04-010	NLA-02-010	PHY-08-029	RBA-07-033	ULT-10-020	
3	CSA-01-006	ELE-04-011	NLA-02-011	PPA-02-030	RBA-07-034	ULT-12-010	
4	CAS-01-007	ELE-04-012	NLA-03-005	PPA-02-031	RBA-09-013	ULT-12-011	
5	CAS-01-008	ELE-04-013	NLA-04-007	PPA-03-015	RBA-11-010	ULT-13-012	
6	CAS-03-018	ELE-04-014	NLA-06-010	PPA-04-006	RBA-11-011	ULT-13-013	
7	CAS-03-019	ENV-01-008	NLA-10-009	PPA-04-007	RBA-13-007	ULT-13-014	
8	CAS-03-020	ENV-01-009	NLA-10-010	PPA-05-012	RBA-15-010	ULT-13-015	
9	CAS-03-021	ENV-02-010	NLA-10-011	PPA-05-013	RBA-15-011	ULT-13-016	
10	CAS-03-022	ENV-03-006	NLA-10-012	PPA-05-014	RBA-15-012	ULT-14-012	
11	CAS-03-023	ENV-03-007	NOI-02-010	PPA-05-015	SAV-01-016	ULT-14-013	
12	CAS-03-024	ENV-03-008	NOI-02-011	PPA-05-016	SAV-01-017	ULT-15-015	
13	CAS-03-025	ENV-06-006	NOI-03-006	PPA-05-017	SAV-01-018	ULT-15-016	
14	CAS-03-026	ENV-07-010	NOI-03-007	PPA-06-011	SAV-01-019	ULT-15-017	
15	CAS-03-027	ENV-07-011	NOI-03-008	PPA-07-018	SAV-02-009	ULT-15-018	
16	CAS-03-028	ENV-07-012	NOI-03-009	PPA-08-011	SAV-02-010	ULT-15-019	
17	CAS-03-029	ENV-08-014	NOI-03-010	PPA-08-012	SAV-03-012	ULT-17-016	
18	CAS-03-030	ENV-08-015	NOI-03-011	PPA-09-013	SAV-03-013	ULT-17-017	
19	CAS-03-031	ENV-10-009	NOI-04-016	PPA-09-014	SAV-03-014	ULT-17-018	
20	CAS-03-032	ENV-10-010	NOI-04-017	PPA-09-015	SAV-03-015	ULT-17-019	
21	CAS-03-033	ENV-11-010	NOI-05-010	PPA-09-016	SAV-03-016	ULT-17-020	
22	CAS-03-034	MUS-02-010	NOI-07-017	RBA-01-019	ULT-02-006	ULT-17-021	
23	CAS-03-035	MUS-02-011	NOI-07-018	RBA-01-020	ULT-02-007	ULT-17-022	
24	CAS-03-036	MUS-05-014	PHY-02-004	RBA-02-010	ULT-04-005	ULT-17-023	
25	CAS-03-037	MUS-07-010	PHY-02-005	RBA-03-006	ULT-05-007	UNW-02-00	
26	CAS-03-038	MUS-07-011	PHY-06-008	RBA-03-007	ULT-07-008	UNW-02-00	
27	CAS-03-039	MUS-07-012	PHY-06-009	RBA-03-008	ULT-07-009	UNW-04-01	
28	CAS-03-040	MUS-07-013	PHY-06-010	RBA-03-009	ULT-09-015	UNW-04-01	
29	CAS-03-041	MUS-07-014	PHY-06-011	RBA-03-010	ULT-09-016	UNW-04-01	
30	CAS-04-005	MUS-07-015	PHY-06-012	RBA-05-022	ULT-09-017	UNW-04-01	
31	CAS-04-006	MUS-07-016	PHY-06-013	RBA-05-023	ULT-10-013		
32	CAS-04-007	MUS-07-017	PHY-06-014	RBA-05-024	ULT-10-014		
33	CAS-04-008	MUS-07-018	PHY-06-015	RBA-06-037	ULT-10-015		
34	COM-01-011	MUS-07-019	PHY-07-012	RBA-06-038	ULT-10-016		
35	COM-06-014	MUS-07-020	PHY-08-025	RBA-06-039	ULT-10-017		
36	ELE-01-019	MUS-07-021	PHY-08-026	RBA-07-031	ULT-10-018		
37	ENV-01-010	MUS-07-022	PHY-08-027		ULT-08-007		

10.3. Technical Programme

Structured Session Coordinators: Antonio Pérez-López; Michael Vorländer

BIO - Bioacoustics

BIO-01 - Animal acoustics

BIO-01-001. Investigations on the structure of fish stocks in Ataturk Dam lake by using classical

and acoustical approaches Akoglu, Ekin; Gucu, Ali Cemal

S.01 Monday 3rd - 15:00 - Room R-101

BIO-01-002. Vibrations: Pathway to understanding termite foraging behaviour

Lai, Joseph CS.; Evans, Theodore, A.; Inta, Ra S.01 Monday 3rd - 15:20 - Room R-101

BIO-01-003. Experimental and numerical analysis of the frequency response of the cuvier's ziphius mandible

and the mandibular fat bodies

Militello, Carmelo, Guadalupe, Viana, V. Correa, Santiago, Buenafuente, S., Martín I, Recuero, Manuel

S.01 Monday 3rd - 15:40 - Room R-101

BIO-02 - Auditory neuroscience and bioacoustics

Session Organizer: Mardi C. Hastings

BIO-02-001. Vibration characteristics of dry human skull using scanning laser doppler vibrometer

Romuald Bolejko, Andrzej B. Dobrucki S.01 Monday 3rd - 16:00 - Room R-101

BIO-02-002. Heat-stress actuated protective mechanism of the inner ear against

noise-induced hearing loss

Murakoshi, Michio; Kitsunai, Yoko; Yoshida, Naohiro; Iida, Koji; Kumano, Shun; Kobayashi, Toshimitsu;

Wada, Hiroshi

S.01 Monday 3rd - 16:20 - Room R-101

BIO-02-003. Mostly malleus: Ground sound detection by the remarkable ear of the golden mole

Narins, Peter M.; Willi, Urban B. S.01 Monday 3rd - 16:40 - Room R-101

BIO-02-004. Assessments of bone-conducted ultrasonic hearing-aid (bcuha)

by europhysiological measurements

Nakagawa, Seiji

Poster - Tuesday 4th morning - Board 01

BIO-03 - Marine bioacoustics

Session Organizer: Manuel Castellote

BIO-03-001. Birth prediction using acoustics in captive beluga whales

Azorín, María del Mar; Castellote, Manuel; Esteban, José Antonio

S.01 Monday 3rd - 17:00 - Room R-101

BIO-03-002. The temporal structure of the echo for the fish identification by using the broadband sonar signal

Matsuo, Ikuo; Imaizumi, Tomohito; Furusawa, Masahiko; Akamatsu, Tomonari; Nishimori, Yasushi;

Ogawa, Shinji

S.01 Monday 3rd - 17:20 - Room R-101

BIO-03-003. Temporal order discrimination by a bottlenose dolphin is not affected by stimulus frequency spectrum

variation

Zaslavski, Gennadi

S.01 Monday 3rd - 17:40 - Room R-101

BIO-O3-O04-IP. Sound production of neonate captive beluga whales

Castellote, Manuel; Vergara, Valeria; Barret-Lennard, Lance G.; Esteban, José A.

S.08 Friday 7th - 10:40 - Room R-103

BIO-03-005. Mathematical modeling of dolphin clicks source

Dubrovskiy, Nikolay; Urusovskiy Igor S.08 Friday 7th - 11:00 - Room R-103

BIO-03-006-IP. On the use of broadband signals for the acoustical characterisation of the gilt-head sea bream

Ester Soliveres, Víctor Espinosa, Eva Escuder, Jesús Alba, Javier Redondo, Miguel Ardida, Silvia Martínez, Miguel Jover, Vicent D. Estruch

S.08 Friday 7th - 11:20 - Room R-103

CAS - Communication Acoustics, including Speech

CAS-01 - Communication Acoustics

CAS-01-001. Toward the evaluation of speech quality impact on users' behaviour through a recognition dual task

Durin, Virginie; Gros, Laetitia

S.06 Thursday 6th - 11:00 - Room R-102

CAS-01-002. A new approach to achieve a better auditory perception into remote videocon-ference rooms

Mato-Méndez, Fernando José; Sobreira-Seoane, Manuel; Torres-Guijarro, Marisol

S.06 Thursday 6th - 11:20 - Room R-102

CAS-01-003. Speech recognition in classroom noise by school-age children

Picard, Michel

S.06 Thursday 6th - 11:40 - Room R-102

CAS-01-004. Speech enhancement based on time-domain -filter and time- frequency -filter

Abe, Tomomi; Matsumoto, Mitsuharu; Hashimoto, Shuji

S.07 Thursday 6th - 15:00 - Room R-102

CAS-01-005. User authentication using the personal auditory characteristics

Sonoda, Kotaro; Asemi, Noriaki; Nakazato, Junji; Yoshioka, Katsunari;

Inoue, Daisuke; Takizawa, Osamu

Poster - Tuesday 4th morning - Board 02

CAS-01-006. Reduction method of side information for packet loss concealment based

on spectrum stripe coding

Suzuki, Motoyuki; Sakai, Toshiyuki; Ito, Akinori; Makino, Shozo

Poster - Tuesday 4th morning - Board 03

CAS-01-007. Preference of the transfer functions for music recording in a coherent region of a reverberant field

Yoshifumi Hara; Yoshinori Takahashi; Hiroaki Nomura; Mikio Tohyama; Kazunori Miyoshi

Poster - Tuesday 4th morning - Board 04

CAS-01-008. Development of small sound equipment with micro-dynamic-type loudspeakers

for HRTF measurement

Yoshihide, Hayakawa; Takanori, Nishino; Kazuya, Takeda

Poster - Tuesday 4th morning - Board 05

CAS-02 - Oto-acoustic emission

Session Organizer: Dorte Hammershøi

CAS-02-001-IP. Artifact rejection of distortion product otoacoustic emissions measured after sound exposure

Reuter, Karen; Ordoñez, Rodrigo; Aranda de Toro, Miguel Angel, Hammershøi, Dorte

S.06 Thursday 6th - 10:00 - Room R-102

CAS-02-002. Contralateral suppression of distortion product otoacoustic emission in humans

Ozimek, Edward; Wicher, Andrzej

S.06 Thursday 6th - 10:20 - Room R-102

CAS-02-003. Optimization of distortion product otoacoustic emission (DPOAE) measurements with the commercial

system IL096

Aranda de Toro, Miguel Angel; Ordoñez, Rodrigo; Hammershøi, Dorte

S.06 Thursday 6th - 10:40 - Room R-102

CAS-03 — Speech a	acoustics
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CAS-03-001. Modelling of the human-machine dialogue in dual language R. Djeradi, A. Djeradi, J. Caelen S.07 Thursday 6th - 15:20 - Room R-102 CAS-03-002. Design of a Chilean voices database by means of a telephonic interface Grez, Guillermo, Recuero, Manuel S.07 Thursday 6th - 15:40 - Room R-102 CAS-03-003. Acoustic features of disordered voices under vocal fold pathology Aquiar Neto, Benedito G.; Costa, Silvana C.; Fechine, Joseana M.; Muppa, Menaka S.07 Thursday 6th - 16:00 - Room R-102 CAS-03-004. Experimental validation of simplified free jet turbulence models applied to the vocal tract Grandchamp, Xavier; Van Hirtum, Annemie; Pelorson, Xavier S.07 Thursday 6th - 16:20 - Room R-102 CAS-03-005. Articulatory feature estimation for nonstationary vowels based on a local vector coding Ito, Masashi; Yano, Masafumi S.07 Thursday 6th - 16:40 - Room R-102 CAS-03-006. Time-scaling of consonant-vowel transitions using harmonic-plus-noise model for improving speech perception by listeners with moderate sensorineural impairment Jayan, A. R.; Pandey, Prem C.; Lehana, Parveen K. S.07 Thursday 6th - 17:00 - Room R-102 CAS-03-007. Russian speech recognition model with morphemic analysis and synthesis Karpov, Alexey; Ronzhin, Andrey S.07 Thursday 6th - 17:20 - Room R-102 CAS-03-008. Speech compression using discrete hermite transform Hossein Marvi S.07 Thursday 6th - 17:40 - Room R-102 CAS-03-009. Speech intelligibility of two groups of cordectomized Miralles, J.L.; Garriques, J.V.; Romero, J.; Cerdá, S.; Giménez, A.; Cibrián, R. S.08 Friday 7th - 09:00 - Room R-102 A study of vocal tract area functions for speech synthesis system based CAS-03-010. on transmission line model Ogata, Kohichi; Yang, Bing S.08 Friday 7th - 09:20 - Room R-102 CAS-03-011. Surface modeling of vocal tract shapes in transition segments of vowel-consonant-vowel syllables for estimation of place of closure Shah, Milind S.; Pandey, Prem C. S.08 Friday 7th - 09:40 - Room R-102 CAS-03-012. Harmonics – to – noise ratio in ika Igbo and English utterances: implications and inferences Uguru, Joy Oluchi S.08 Friday 7th - 10:00 - Room R-102 CAS-03-013. Polish sentence test for speech intelligibility measurements in masking conditions Ozimek, Edward; Kutzner, Dariusz; S k, Aleksander; Wicher, Andrzej S.08 Friday 7th - 10:20 - Room R-102 Detection of musical scale from speech CAS-03-014. Bosu, Orpita; Datta, Asoke S.08 Friday 7th - 10:40 - Room R-102

CAS-03-015.	Perceptral impression to same utterances with various speech styles Yasukazu Kanamori; Mayo Noda S.08 Friday 7th - 11:00 - Room R-102
CAS-03-016.	Experimental Validation of Direct and Inverse Glottal Flow Models for Unsteady Flow Conditions and Glottal Closure Cisonni, Julien; Van Hirtum, Annemie; Willems, Jan; Pelorson, Xavier S.08 Friday 7th - 11:20 - Room R-102
CAS-03-017.	The influence of linguistic and extra-linguistic information on synthetic speech intelligibility Gardzielewska, Hanna S.08 Friday 7th - 11:40 - Room R-102
CAS-03-018.	Detection and direction estimation of calling voice Ito, Akinori; Kitadate, Kota; Suzuki, Motoyuki; Makino, Shozo Poster - Tuesday 4th morning - Board 06
CAS-03-019.	Robust Harmonic complex estimation in noise Krijnders, Dirkjan; Niessen, Maria; Andringa, Tjeerd Poster - Tuesday 4th morning - Board 07
CAS-03-020.	Assessing the reverberation level in speech Niessen, Maria; Krijnders, Dirkjan; Boers, Joep; Andringa, Tjeerd Poster - Tuesday 4th morning - Board 08
CAS-03-021.	A numerical experiment on waveform fluctuation within the larynx Nomura, Hideyuki; Funada, Tetsuo Poster - Tuesday 4th morning - Board 09
CAS-03-022.	A cross-linguistic perceptual and acoustical study of speaker discrimination in film dubbing Payri, Blas; Enríquez Carrasco, Emilia V.; Redondo, Javier; Picó, Rubén
	Poster - Tuesday 4th morning - Board 10
CAS-03-023.	Data hiding in speech signals on the basis of the modification of segment pitch and duration Ponomar, Marina Poster - Tuesday 4th morning - Board 11
CAS-03-024.	Effects of F0 range and contours in speech upon the image of speakers' personality Uchida, Teruhisa Poster - Tuesday 4th morning - Board 12
CAS-03-025.	Analysis of peak contours in different segmental and suprasegmental contexts Wagner, Agnieszka Poster - Tuesday 4th morning - Board 13
CAS-03-026.	Experimental validation and physical modelling of vocal folds pathologies Ruty, Nicolas; Brutel-Vuilmet, Claire; Pelorson, Xavier; Van Hirtum, Annemie Poster - Tuesday 4th morning - Board 14
CAS-03-027.	Behavior of the spectral enveloppe of the vocal tract in front of a variation of the source parameters Falek, Lila; Djeradi Amar Poster - Tuesday 4th morning - Board 15
CAS-03-028.	Locus equation for arabic guturals O., Bouferroum, L. Falek, A. Djeradi Poster - Tuesday 4th morning - Board 16
CAS-03-029.	Locus equation of arabic consonants preceded by middle vowel compared to when preceded by front or back vowel O.Bouferroum, L.Falek, A.Djeradi Poster - Tuesday 4th morning - Board 17

CAS-03-030. A real-time lecture captioning system using speech recognition technology for hearing-impaired students Isono, Haruo; Irikura, Keisuke; Yamaquchi Junpei Poster - Tuesday 4th morning - Board 18 CAS-03-031. A New Architecture and Approaches to Improve a Subword-Based Open Vocabulary Spoken Document Retrieval System Yoshiaki, Itoh; Kohei, Iwata; Kazunori, Kojima; Masaaki, Ishiqame; Kazuyo, Tanaka; Shi-wook, Lee Poster - Tuesday 4th morning - Board 19 CAS-03-032. Auditory representation of spectral intensity variation in coarticulated vowels Jacewicz, Ewa; Fox, Robert Allen Poster - Tuesday 4th morning - Board 20 CAS-03-033. Spectral integration of virtual cues in speech perception Fox, Robert Allen; Jacewicz, Ewa; Wackler, Lisa Poster - Tuesday 4th morning - Board 21 CAS-03-034. Spontaneous speech recognition using discrete-mixture HMMS Kosaka, Tetsuo; Katoh, Masaharu; Kohda, Masaki Poster - Tuesday 4th morning - Board 22 CAS-03-035. Estimation of area function using pressure contours and sound intensity in 3-d vocal tract Nakai, Takayoshi; Mochizuki, Keita Poster - Tuesday 4th morning - Board 23 CAS-03-036. A study of suitable reverberation criteria for distant-talking speech recognition with room acoustic parameters Nishiura, Takanobu; Hirano, Yoshiki; Denda, Yuki; Nakayama, Masato Poster - Tuesday 4th morning - Board 24 CAS-03-037. Enhancing speech in reverberation by steady-state suppression Kei Takahashi; Keiichi Yasu; Nao Hodoshima; Takayuki Arai; Kiyohiro Kurisu Poster - Tuesday 4th morning - Board 25 CAS-03-038. Continuous time-frequency coordinate mapping with sparse anchoring templates and its application to auditory morphing Takahashi, Toru; Irino, Toshio; Kawahara, Hideki Poster - Tuesday 4th morning - Board 26 CAS-03-039. Disordered Speech Assessment Using Different Speech Zlatník, Petr; Cmejla, Roman Poster - Tuesday 4th morning - Board 27 CAS-03-040. Speech segmentation on subphonemic segments aimed to the speech pathology analysis Saric, Zoran; Jovicic, Slobodan; Bilibajkic, Ruzica Poster - Tuesday 4th morning - Board 28 CAS-03-041. Perceptral impresión to same utterances with vaious speech styles Yasukazu Kanamori; Mayo Noda Poster - Tuesday 4th morning - Board 29 CAS-04 - CAS-General CAS-04-001. Teaching acoustics using IHAS open-source TLM-package Lambda Matthias Blau S.08 Friday 7th - 09:40 - Room R-103 CAS-04-002. Synchronization of acoustic speech data for machine learning based audio to visual conversion Takács, György; Tihanyi, Attila; Feldhoffer, Gergely; Bárdi, Tamás; Oroszi, Balázs S.08 Friday 7th - 10:00 - Room R-103

CAS-04-003. Substantial difference between the dynamic characteristics of the middle ear in infants and those in adults

Wada, Hiroshi; Yoshimura, Yusuke; Sugaya, Mitsuki; Suzuki, Takashi; Hamanishi, Shinji; Nakae, Nobuyoshi; Matsutani, Sachiko; Kobayashi, Toshimitsu

S.6 Thrusday 6 th - 11:20 - Room R-101

CAS-04-004. An image processing approach to cochleograms

Krijnders, Dirkjan; van der Zant, Tijn; Haak, Koen; Andringa, Tjeerd; Schomaker, Lambert

S.08 Friday 7th - 10:20 - Room R-103

CAS-04-005. Speech data base of the massenrempulu language in the south sulawesi province in Indonesia

Nakashima, Hirotake; Sawada, Yusuke Poster - Tuesday 4th morning - Board 30

CAS-04-006 Numerical simulation of attenuation characteristics of soft-tissue conducted sound originated

from vocal tract

Otani, Makoto; Hirahara, Tatsuya; Adachi, Seiji

Poster - Tuesday 4th morning - Board 31

CAS-04-007. 3 Dimensional Sound Source Localization Using a Distributed Microphones System

Cho, Kook; Nishiura, Takanobu; Yamashita, Yoichi

Poster - Tuesday 4th morning - Board 32

CAS-04-008. Improvement of the Speech Recognition under the Noisy Environment using the Savitzky-Golay

smoothing filter

Yoichi, Midorikawa; Masanori, Akita

Poster - Tuesday 4th morning - Board 33

COM – Computational Acoustics

COM-01 — Advances and applications of computational methods for sound radiation and scattering Session Organizer: Andrew Peplow

COM-01-001-IP. A FE/FMBE-Coupling to model the interaction of an absorbing material with a surrounding fluid

Schneider, Stefan

S.02 Tuesday 4th - 09:00 - Room R-102

COM-01-002-IP. Adaptive sampling for frustum-based sound propagation in complex and dynamic environments

Lauterbach, Christian; Chandak, Anish; Manocha, Dinesh

S.02 Tuesday 4th - 09:20 - Room R-102

COM-01-003. Fast integral equation algorithm for large scale simulation of acoustic field propagation

in biological tissues

Bleszynski, E.; Bleszynski, M.; Jaroszewicz, T.

S.02 Tuesday 4th - 09:40 - Room R-102

COM-01-004. A general procedure for selecting suitable equivalent monopole sets for rigid body

scattering problems

Gounot, Yves J. R.; Musafir, Ricardo E.

S.02 Tuesday 4th - 10:00 - Room R-102

COM-01-005. Efficient and Stable Acoustic Tomography Using Sparse Reconstruction Methods

Jovanovic, Ivana; Hormati, Ali; Sbaiz, Luciano; Vetterli, Matrin

S.02 Tuesday 4th - 10:20 - Room R-102

COM-01-006. Modeling radiation synthesis with spherical loudspeaker arrays

Franz Zotter, Robert Höldrich

S.02 Tuesday 4th - 10:40 - Room R-102

COM-01-007. Modelling sound radiation using a vibrating wall excited by an impact load:

A bem approach

Santos, Paulo; Mateus, Diogo

S.02 Tuesday 4th - 11:00 - Room R-102

COM-01-008. Simple model of porous material for FDTD method

Hisaharu Suzuki, Akira Omoto and Kyoji Fujiwara

S.02 Tuesday 4th - 11:20 - Room R-102

COM-01-009. Computer simulation of room reverberation

Noha Korany

S.02 Tuesday 4th - 11:40 - Room R-102

COM-01-010. Dynamic imaging on broadband sound source using CAVSPAC

Shimoyama, Ryuichi

S.03 Tuesday 4th - 15:00 - Room R-102

COM -01-011. Combination of Acoustical Wave Propagator with Perfectly Matched Layer

Jing Lu, Zhibin Lin, Xiaoqin Chen, Boling Xu Poster - Tuesday 4th morning - Board 34

COM-02 - Boundary element methods in acoustics

Session Organizer: Antoine Lavie

COM-02-001-IP. Fast Multipole Method for Acoustic Computations

Parot, Jean-Marc; Pellicier, Antoine S.03 Tuesday 4th - 15:20 - Room R-102

COM-02-002. Acoustic boundary element method formulation with treatment of nearly singular integrands

by element subdivision

Cutanda Henriquez, Vicente; Juhl, Peter S.03 Tuesday 4th - 15:40 - Room R-102

COM-02-003. A methodology for optimum design of Y-shape noise barriers

Aznarez, Juan José; Greiner, David; Maeso, Orlando; Winter, Gabriel

S.03 Tuesday 4th - 16:00 - Room R-102

COM-02-004. Inverse Boundary Element Calculations based on structural modes

Juhl, Peter Møller

S.03 Tuesday 4th - 16:20 - Room R-102

COM-02-005. Sound transmission analysis provided by a single panel in the presence of an elastic interlayer

Pereira, Andreia; Tadeu, António

S.03 Tuesday 4th - 16:40 - Room R-102

COM-02-006. A numerical study of the influence of sound level meter case

Rodríguez Molares, Alfonso; Sobreira Seoane, Manuel A.

S.03 Tuesday 4th - 17:00 - Room R-102

COM-02-007. Boundary element method for the estimation of noise barrier

insertion losses

Waubke Holger, Chen Zhensheng, Kreuzer Wolfgang

S.03 Tuesday 4th - 17:20 - Room R-102

COM-02-008. High frequency acoustics simulations via fmm accelerated Bem

Gumerov, Nail A.; Duraiswami, Ramani S.03 Tuesday 4th - 17:40 - Room R-102

COM-03 - Computational methods in combustion noise

Session Organizers: Martin Ochmann; Rafael Piscoya

COM-03-001-IP. Computational Method on Prediction of Combustion Noise

F. Zhang, P. Habisreuther, M. Hettel and H. Bockhorn

S.04 Wednesday 5th - 09:00 - Room R-102

COM-03-002. Zonal Approaches for the Simulation of Indirect Combustion Noise

Richter, Christoph; Thiele, Frank

S.04 Wednesday 5th - 09:20 - Room R-102

COM-03-003.IP. Determination of the Sound Radiation of Turbulent Flames Using an Integral Method Piscoya, Rafael; Ochmann, Martin S.04 Wednesday 5th - 09:40 - Room R-102 COM-03-004.IP. Calculation of acoustic radiation of an open turbulent flame with a transient boundary element method Stütz, Michael; Ochmann, Martin S.04 Wednesday 5th - 10:00 - Room R-102 COM-03-005.IP. Validation of a model for premixed combustion noise with optical measurement techniques Winkler, Anton; Wäsle, Johann; Hirsch, Christoph; Sattelmayer Thomas; S.04 Wednesday 5th - 10:20 - Room R-102 Improvement of the spectrofilter - Separation of coherent sources overlapping in time and frequency domains COM-03-006 Pruvost, Laurent; Leclère, Quentin; Parizet, Etienne S.04 Wednesday 5th - 10:40 - Room R-102 COM-04 - Computational methods in fluid-structure interaction Session Organizer: Pablo Garcia-Foqeda COM-04-001-IP. An approach for characterizing the aerodynamics/structure coupling at the aircraft design stage in the presence of structural nonlinearities Arévalo Lozano, Félix S.04 Wednesday 5th - 11:00 - Room R-102 COM-04-002. Modelling structural acoustic transmission in waveguides Peplow, Andrew; Finnveden, Svante S.04 Wednesday 5th - 11:20 - Room R-102 COM-04-003. Acoustic transmission characteristics of closed flexible structures using FEM/BEM coupling Sunggyu Won; Weui Bong Jeong S.04 Wednesday 5th - 11:40 - Room R-102 COM-05 - Numerical simulation of cavities and indoor spaces Session Organizer: Andreas Franck COM-05-001. Sound field analysis of rooms with the finite element method Wernberg, Per-Anders; Sandberg, Góran S.01 Monday 3rd - 15:00 - Room R-102 COM-05-002. Prediction of low-frequency sound-pressure fields in rooms with obstacles Chan, Gary; Hodgson, Murray; Valeau, Vincent S.01 Monday 3rd - 15:20 - Room R-102 COM-05-003-IP. Accuracy of direct frequency response analysis in sound field of a cavity using finite element method by comparison with modal frequency response analysis Otsuru, Toru; Okamoto, Noriko; Okuzono, Takeshi; Kondo, Takayuki; Kurogi, Yuka S.01 Monday 3rd - 15:40 - Room R-102 COM-05-004-IP. Wall structure modeling for room acoustic and building acoustic FEM simulations Franck, Andreas; Aretz, Marc S.01 Monday 3rd - 16:00 - Room R-102 COM-05-005-IP. Identification of boundary conditions in arbitrarily shaped cavities Anderssohn, Robert; Marburg, Steffen S.01 Monday 3rd - 16:20 - Room R-102 COM-05-006. Numerical simulation of multichannel active control on cells with a frontal porous veil Bermúdez, Alfredo; Gamallo, Pablo; Hervella-Nieto, Luis María; Prieto, Andrés

COM-05-007-IP. Optimal space-time finite difference schemes for experimental booth design Naka, Yusuke; Oberai, Assad A.; Shinn-Cunningham, Barbara G.

S.01 Monday 3rd - 16:40 - Room R-102

S.01 Monday 3rd - 17:00 - Room R-102

COM-05-008-IP. Numerical analysis of interior sound fields using the fast multipole bem with a domain decomposition approach Sakuma, Tetsuya; Yasuda, Yosuke S.01 Monday 3rd - 17:20 - Room R-102 COM-05-009. Boundary element analysis of circular dual-chamber mufflers with microperforated panel absorbers Pasqual, Alexander M.; Arruda, José Roberto de F. S.01 Monday 3rd - 17:40 - Room R-102 COM-06 - COM-General COM-06-001. Acoustic-based surface roughness measurement of paper Aguilar, Juan R., Salinas, Renato A.. Briones, Leoncio J. S.05 Wednesday 5th - 15:00 - Room R-102 COM-06-002. CAE Modeling and Simulation for Acoustic Performance of Industrial Mufflers Chinsuk Hong; Deahwan Kim; Weui Song Jeong S.05 Wednesday 5th - 15:20 - Room R-102 COM-06-003. Methodology for electro mechanical simulation of piezoelectric ceramics Morcillo López, Miguel Ángel; Cesteros Morante, Beatriz; Cordero Izquierdo, Roberto; Hidalgo Otamendi, Antonio; Fernández, J. Francisco S.05 Wednesday 5th - 15:40 - Room R-102 COM-06-004. Modelling of Acoustic Wave Propagation using Transient Insular Nodal Analysis (TINA) De Rybel, Tom; Martí, José; Hodgson, Murray S.05 Wednesday 5th - 16:00 - Room R-102 Acoustical response of a room with computational techniques - improving direct diffuse rays COM-06-005. as an extension of the specular images method Feo Rodríguez, Walter A. S.05 Wednesday 5th - 16:20 - Room R-102 COM-06-006. An application of morphologic filters to remove non-linear distortions from time-frequency representations of acoustic signals G. G. Soledad, N. O. Valery, M. R. Ramón S.05 Wednesday 5th - 16:40 - Room R-102 COM-06-007. A time domain model of a resonance tube containing a porous ceramic material Kleiven, Stig; Kropp, Wolfgang; Larsson, Krister S.05 Wednesday 5th - 17:00 - Room R-102 Acoustic modelling of the cooling system of an induction HOB COM-06-008. Lladó, Juan; Sánchez, Beatriz; Monterde, Fernando; Pina, Carmelo; Llorente, Sergio; Hernández, Pablo S.05 Wednesday 5th - 17:20 - Room R-102 COM-06-009. An Investigation of Parameters Controlling the Lowest Natural Frequency in Helmholtz Resonators Nair, Unnikrishnan; Shete, C. D.; Padmanabhan, Chandramouli; Subramoniam, A. S.05 Wednesday 5th - 17:40 - Room R-102 COM-06-010. Traffic Noise Measurement: Frequency Response as a Function of Microphone Position from Computer Simulations Miyara, Federico; Pasch, Vivian; Cabanellas, Susana; Yanitelli, Marta; Miechi, Pablo S.06 Thursday 6th - 09:00 - Room R-102 COM-06-011. On the well posed problem for a third-order hyperbolic equation Magaña, Antonio; Quintanilla, Ramón S.06 Thursday 6th - 09:20 - Room R-102 COM-06-012. HRTF calculation in the full audible frequency range using FMBEM Masumoto, Takayuki; Oshima, Takuya; Yasuda, Yosuke; Sakuma, Tetsuya; Kabuto, Masaaki;

Akiyama, Makoto

S.06 Thursday 6th - 09:40 - Room R-102

COM-06-013. Perceptual evaluation of simulated head-related transfer functions

Julia Turku, Eira Seppälä, Ole Kirkeby, Asta Kärkkäinen, Leo Kärkkäinen

S.08 Friday 7th – 09.20 – Room R-101

COM-06-014. Numerical simulation of the acoustical waves propagation in a standing wave tube Juliá Sanchis, Ernesto; Segura Alcaraz, Jorge; Alba Fernández, Jesús; del Rey Tormos, Romina

Poster - Tuesday 4th morning - Board 35

ELE - Electro-acoustics and Audio Engineering

${\sf ELE-01-Loudspeakers\ and\ sound\ reinforcement}$

Session Organizer: Andrzej Dobrucki

ELE-01-001-IP. New Approach of Speaker Simulation for Sound Reinforcement Ahnert, Wolfgang; Feistel, Stefan; Maier, Torsten

S.02 Tuesday 4th - 09:00 - Room R-101

ELE-01-002. Adaptation of Multichannel Sound Reproduction to Restricted Speaker Arrangement

Ando, Akio

S.02 Tuesday 4th - 09:20 - Room R-101

ELE-01-003-IP. Magnetohydrodynamic transducer

Dobrucki, Andrzej; Czura, Lukasz S.02 Tuesday 4th - 09:40 - Room R-101

ELE-01-004. Personal Audio with Multiple Dark Zones

Jones, Matthew; Elliott, Stephen S.02 Tuesday 4th - 10:00 - Room R-101

ELE-01-005. Evaluation of the spatial field of loudspeakers configuration in home theatre 5.1 systems

Soelami, FXN; Sarwono, J. and Bagawan, T. S.02 Tuesday 4th - 10:20 - Room R-101

ELE-01-006. Comparison of higher-order Ambisonics and wave field synthesis with respect to spatial

aliasing artifacts

Sascha Spors, Jens Ahrens

S.02 Tuesday 4th - 10:40 - Room R-101

ELE-01-007. Influence of loudspeaker displacement on the reproduction quality

of wave field synthesis systems Strauß, Michael J.; Munderloh, Marco S.02 Tuesday 4th - 11:00 - Room R-101

ELE-01-008-IP. How to ameliorate the linearity of loudspeakers

Lemarquand, Guy; Lemarquand, Valérie S.02 Tuesday 4th - 11:20 - Room R-101

ELE-01-009-IP. Sound Distorter Based on Nonlinear Model of Dynamic Loudspeaker

Zoltogorski, Bronislaw; Pruchnicki, Piotr S.02 Tuesday 4th - 11:40 - Room R-101

ELE-01-010-IP. Vibroacoustical characteristics of loudspeakers with damaged diaphragm

Romuald Bolejko

S.03 Tuesday 4th - 15:00 - Room R-101

ELE-01-011. Digital measurement of dynamic distortion of loudspeakers

Imaoka, Keiichi; Ohqa, Juro

S.03 Tuesday 4th - 15:20 - Room R-101

ELE-01-012. Direct radiator loudspeaker by continuous revolution of ultrasonic motor

Yuta Ohnuma, Yusuke Iwaki, Juro Ohga, Hirokazu Negishi, Toshio Sashida, Kazuaki Maeda

S.03 Tuesday 4th - 15:40 - Room R-101

 $\hbox{ELE-01-013}. \qquad \hbox{Distortion reduction for the parametric loudspeaker}$

Yang, Jun; Ji, Peifeng; Gan, Woon-Seng S.03 Tuesday 4th - 16:00 - Room R-101

ELE-01-014-IP. Image of acoustic energy field radiated in 3d space by electrodynamic loudspeaker

Stefan Weyna

S.03 Tuesday 4th - 16:20 - Room R-101

ELE-01-015-IP. The loudspeaker system equipped with organ tubes

Didkovskiy Vitaly, Dobrucki Andrzej, Lunyova Svetlana

S.03 Tuesday 4th - 16:40 - Room R-101

ELE-01-016. The acoustic antennas for atmospheric research

Krasnenko, Nikolay

S.03 Tuesday 4th - 17:00 - Room R-101

ELE-01-017. Design of acoustic box for loudspeakers with the use of hybrid model

analytical-FE

Martín Sánchez, Juan Sabas, Cordero Izquierdo, Roberto,

Lobo González, Fernando

S.03 Tuesday 4th - 17:20 - Room R-101

ELE-01-018. Analysis and implementation of crosstalk filters for 3D sound reproduction

Botía Fernandez, Miquel David; Navarro Ruiz, Juan Miquel

S.03 Tuesday 4th - 17:40 - Room R-101

ELE-01-019. A Method for Analyzing Compact Acoustic Reproduction Systems through

Acoustic Equivalent Circuit

Nagase Yoshiaki, Tsujikawa Souichi, Kajikawa Yoshinobu, Nomura Yasuo

Poster - Tuesday 4th morning - Board 36

ELE-02 - Microphones

Session Organizer: Gerhard Sessler

ELE-02-001-IP. Micromachined microphones with diffraction-based optical interferometric readout

and electrostatic actuation

F. Levent Degertekin, Neal A. Hall, Baris Bicen, Caesar Garcia, Kamran Jeelani,

Shakeel Qureshi, Murat Okandan

S.04 Wednesday 5th - 09:00 - Room R-101

ELE-02-002-IP. Challenges of high SNR (signal-to-noise) silicon micromachined microphones

Füldner, Marc; Dehé, Alfons

S.04 Wednesday 5th - 09:20 - Room R-101

ELE-02-003-IP. Design considerations of silicon microphone backplates

Jianmin Miao, Chee Wee Tan and Zhihong Wang S.04 Wednesday 5th - 09:40 - Room R-101

ELE-02-004-IP. Chip scale packaged digital silicon microphone, technology and applications

Rombach, Pirmin; Carsten, Faellesen; Klein, Udo S.04 Wednesday 5th - 10:00 - Room R-101

ELE-02-005-IP. A silicon directional microphone with second-order directivity

Miles, Ronald N.; Liu, Yang; Su, Quang; Cui, Weili S.04 Wednesday 5th - 10:20 - Room R-101

ELE-02-006-IP. A Silicon Microphone Array Prototype for Hearing Aids

Christian Weistenhöfer

S.04 Wednesday 5th - 10:40 - Room R-101

ELE-02-007-IP. Realization of a spherical microphone array

Meyer, Jens; Elko, Gary W.

S.04 Wednesday 5th - 11:00 - Room R-101

ELE-02-008-IP. Broadband Ultrasonic Transducer Lerch, Reinhard; Streicher, Alexander; Sutor, Alexander S.04 Wednesday 5th - 11:20 - Room R-101 ELE-02-009-IP. Piezoelectret-microphones with high capacitance and sensitivity Hillenbrand, Joachim; Pondrom, Perceval; Sessler, Gerhard M. S.04 Wednesday 5th - 11:40 - Room R-101 ELE-02-010. Research progress in piezoelectric mems microphones Tian, Jing; Wang, Chenghao; Xu, Lian; Yang, Chuwei; Li, Junhong S.05 Wednesday 5th - 15:00 - Room R-101 ELE-02-011. Theoretical study of an electrostatic transducer with a non planar backing electrode Le Van Suu, Thierry; Durand, Stéphane; Bruneau, Michel; Honzik, Petr; Lotton, Pierrick S.05 Wednesday 5th - 15:20 - Room R-101 ELE-02-012. The environmentally resistant limit of electret condenser microphones with polymer film diaphragm electret Yoshinobu, Yasuno; Kenzo, Miura S.05 Wednesday 5th - 15:40 - Room R-101 ELE-02-013. An initial investigation on simultaneous measurement of the free-field and diffuse-field sensitivity of microphones Barrera-Figueroa, Salvador; Rasmussen, Knud; Jacobsen, Finn S.05 Wednesday 5th - 16:00 - Room R-101 ELE-02-014. Noise effect reduction in microphone reciprocity calibration Wu, Lixue S.05 Wednesday 5th - 16:20 - Room R-101 ELE-03 - Sensor array system Session Organizer: Jens Meyer ELE-03-001-IP. Towards superdirective beamforming with loudspeaker arrays Edwin Mabande; Walter Kellermann S.05 Wednesday 5th - 16:40 - Room R-101 ELE-03-002-IP. Microphone arrays for measurement and recording De Vries, Diemer S.05 Wednesday 5th - 17:00 - Room R-101 ELE-03-003-IP. Spherical arrays for capturing 3d sound fields: Prototype measurements versus analytical models Daniel, Jerome S.05 Wednesday 5th - 17:20 - Room R-101 ELE-03-004-IP. Sampling-efficient numerically-robust spherical microphone arrays Boaz Rafaely S.05 Wednesday 5th - 17:40 - Room R-101 ELE-03-005-IP. A second-order circular microphone array with out-of-plane beampattern control Elko, Gary W.; Meyer, Jens S.06 Thursday 6th - 09:00 - Room R-101 ELE-03-006-IP. Sensing the world with arrays of microphones and cameras

S.06 Thursday 6th - 09:40 - Room R-101

Melchior, Frank; de Vries, Diemer

S.06 Thursday 6th - 09:20 - Room R-101

ELE-03-007.

O'Donovan, Adam; Duraiswami, Ramani; Neumann, Jan

and their adaptation to different reproduction systems

Plane wave decomposition as a tool for interactive modification of measured sound fields

ELE-03-008. Near-Field Sound Source Separation Based on Amplitude Ratio of Nearby Microphones Nishimura, Ryouichi; Kitamura, Tatsuya; Inoue, Naomi S.06 Thursday 6th - 10:00 - Room R-101 ELE-03-009. A sound-source tracking device to track multiple talkers from microphone array and lavalier microphone data Jonas Braasch; Nicholas Tranby S.06 Thursday 6th - 10:20 - Room R-101 ELE-03-010. Two dimensional DOA estimation based on object related transfer function for the integration with security camera Usagawa, Tsuyoshi; Naganishi, Masahiro; Takada, Toshimichi; Chisaki, Yoshifumi Ebata, Masano S.06 Thursday 6th - 10:40 - Room R-101 ELE-03-011. A study on directivities of line MUM used unidirectional microphone units and its application to hearing aids Miura, Kenzo; Arai, Yasuhiko S.06 Thursday 6th - 11:00 - Room R-101 ELE-03-012. Synergic integration of noise reduction and DOA estimation with stochastic target sound source and deterministic noise models Mizumachi; Mitsunori; Niyada; Katsuyuki Poster - Tuesday 4th afternoon - Board 01 ELE-04 - ELE-General ELE-04-001. Choosing the most appropriate sensor for acoustic measurements Yntema, D.R.; Druyvesteyn, W.F.; Wiegerink, R.J. S.07 Thursday 6th - 15:00 - Room R-101 ELE-04-002. A theoretical study of sound field reconstruction techniques Fazi, Filippo; Nelson, Philip S.07 Thursday 6th - 15:20 - Room R-101 The development of the sound field sharing system based on the boundary surface control principle ELE-04-003. Ise, Shiro; Toyoda, Masahiro; Enomoto, Seigo; Nakamura, Satoshi S.07 Thursday 6th - 15:40 - Room R-101 The pipeline length measurement way by using TSP method ELE-04-004. Takeshi, Araya; Hideo, Shibayama; Yoshiaki, Makabe; Eiji, Okamura S.07 Thursday 6th - 16:00 - Room R-101 ELE-04-005. Comparision of measurements method for analysis electro-acoustic systems with non-linearities Kadlec, Frantisek; Novák, Antonín S.07 Thursday 6th - 16:20 - Room R-101 ELE-04-006. Identification of Nonlinearity of Electro-acoustic Systems using a Direct Path MISO method Novák, Antonín S.07 Thursday 6th - 16:40 - Room R-101 ELE-04-007. Input behaviour of small acoustic components: measurement procedure and its accuracy Rodriques, Dominique; Guianvarc'h, Cécile; Durocher, Jean-Noel; Bruneau Michel; Bruneau, Anne-Marie S.07 Thursday 6th - 17:00 - Room R-101 ELE-04-008. Narrow tubes acoustic impedance characterization using finite element based tools Bravo, Agustín; Ruiz, Mariano; Recuero, Manuel, López, Juan Manuel; De Arcas, Guillermo S.07 Thursday 6th - 17:20 - Room R-101 ELE-04-009. Subjective and Objective Quality Evaluation for Audio Watermarking Based on Sinusoidal **Amplitude Modulation** Nishimura, Akira S.07 Thursday 6th - 17:40 - Room R-101

ELE-04-010. Intensimetric monitoring of acoustic quadraphonic recordings reproduced through a 5.1 loudspeaker array Bonsi, Davide; Cengarle, Giulio; Stanzial, Domenico Poster - Tuesday 4th afternoon - Board 02 ELE-04-011. Determination of Transduction Coefficient or Receiving Sensitivity of an Acoustic Transducer Atashkhooei, Reza Poster - Tuesday 4th afternoon - Board 03 ELE-04-012. Acoustic echo cancellation in frequency domain using combinations of filters Azpicueta-Ruiz, Luis Antonio; Figueiras-Vidal, Anibal; Arenas-Garcia, Jeronimo Poster - Tuesday 4th afternoon - Board 04 ELE-04-013. Design of digital stereo amplifier for mobile IT device Park, Joon-Hoon; Choi, Young-Gyu; Kim, Jin-Min; Jang, Sin-Do Poster - Tuesday 4th afternoon - Board 05 ELE-04-014. Estimation of the connection structure of branching tubule by the interference method Hideo Shibayama; Takeshi Araya; Yoshiaki Makabe; Eiji Okamura Poster - Tuesday 4th afternoon - Board 06 ELE-04-015. Influence of the profile of some vibrating structures on their sound radiating efficiency and directivity Jesús Alba, Jorge Arenas, Jaime Ramis S.07 - Thursday 6th - 18:00 - Room R-101 **ENV - Environmental Acoustics** ENV-01 – Alternative mapping of the urban sound environment Session Organizers: Mats Nilsson; Dick Botteldoren ENV-01-001-IP. Mapping soundscape evaluation in urban open spaces with artificial neural networks and ordinal logistic regression Yu, Lei; Kang, Jian; Harrison, Robert S.04 Wednesday 5th - 09:00 - Room L-201 ENV-01-002-IP. Acoustic indicators of soundscape quality and noise annoyance in outdoor urban areas Nilsson, Mats E.; Botteldooren, Dick; De Coensel, Bere S.04 Wednesday 5th - 09:20 - Room L-201 ENV-01-003-IP. Mapping noise effects in the context of overall well being Botteldooren, Dick S.04 Wednesday 5th - 09:40 - Room L-201 ENV-01-004. An Expeditious Method to Convert Noise Maps Regarding Different Time Period Base Rodrigues, Rui Calejo; Torre, Alipio; Correia, Helena S.04 Wednesday 5th - 10:00 - Room L-201 ENV-01-005. Urban noise in Havana, some considerations for its mitigation Díaz, Gisela; de la Peña, Ana M., Castillo, Maysel S.04 Wednesday 5th - 10:20 - Room L-201 ENV-01-006. Model of noise prediction adapted to urban variables. Implementation in the city of Leon Fuentes, Marcos; García, Eduardo; Cepeda, Jesús; Búrdalo, Gabriel; de Barrios, Mercedes S.04 Wednesday 5th - 10:40 - Room L-201 ENV-01-007. Modelling the urban noise of the city of Belém (Brasil)

Moraes, Elcione; Simón, Francisco; Guimarães, Luis; Moreno, Antonio

S.04 Wednesday 5th - 11:00 - Room L-201

ENV-01-008. Determination of the acoustic trace of vehicles

Martín Bravo, Mª A.; Tarrero Fernández, A.I.; Arias Puga, J.E.; González Suárez, J.;

Machimbarrena Gutiérrez, M.

Poster - Tuesday 4th afternoon - Board 07

ENV-01-009. Evaluation of urban noise in the city of Cáceres (Spain) by two different methods.

Barrigón Morillas, Juan Miguel; Gómez Escobar, Valentín; Mateos Corchado, Laura; Molano Infante, Elena;

Cancho Cardeñona, Adelaida; Trujillo Carmona, José; Méndez Sierra, Juan Antonio;

Vílchez-Gómez, Rosendo; Carmona del Río, Javier; Vaquero, José M.

Poster - Tuesday 4th afternoon - Board 08

ENV-01-010. Noise mapping of the city of Cáceres (Spain) using mathematical predictive method

Barrigón Morillas, Juan Miguel; Vilches-Gómez, Rosendo; Gómez Escobar, Valentín; Méndez Sierra, Juan Antonio; Molina Fernández, Javier; Carmona del Río, Javier;

Vaquero, José M.

Poster - Tuesday 4th morning - Board 37

ENV-02 – Community response to noise

Session Organizers: Giovanni Brambilla; Brigitte Schulte-Forkamp

ENV-02-001-IP. Annoyance by combined exposure to noise from road traffic and rail traffic discussed in the framework

of the noticing model

Botteldooren, Dick, Dekoninck, Luc, de Greve, Bram, De Coensel, Bert, Lercher, Peter

S.02 Tuesday 4th - 09:00 - Room L-201

ENV-02-002-IP. Noise sensitivity: Associations with demographic factors and health

Stansfeld, Stephen; Clark, Charlotte S.02 Tuesday 4th - 09:20 - Room L-201

ENV-02-003-IP. The children's community response to environmental noise

Berglund, Birgitta1; Lindvall, Thomas; Nilsson, Mats E.

S.02 Tuesday 4th - 09:40 - Room L-201

ENV-02-004-IP. Analysis of some results of psychosocial noise impact studies in Spain

Aspuru, Itziar; Herranz, M. Karmele S.02 Tuesday 4th - 10:00 - Room L-201

ENV-02-005-IP. Leisure noise and community noise assessment

Burgess, Marion

S.02 Tuesday 4th - 10:20 - Room L-201

ENV-02-006-IP. Integrating the soundscape in the community noise area

Brigitte Schulte-Fortkamp

S.02 Tuesday 4th - 10:40 - Room L-201

ENV-02-007. Traffic noise effects on Padilla Avenue's neighbors. Environmental noise reduction proposal

Diaz, Monica; Rojas, Axa; Martinez, Ede S.02 Tuesday 4th - 11:00 - Room L-201

ENV-02-008. Subjective assessment of road traffic noise by inhabitants of border-adjacent areas

Kompa_a, Janusz; Lipowczan, Adam S.02 Tuesday 4th - 11:20 - Room L-201

ENV-02-009. Application of pilot survey in population exposed to noise levels produced by air operations

of the international airport Arturo Merino Benítez of Santiago – Chile

Marzzano, Antonio; Recuero, Manuel S.02 Tuesday 4th - 11:40 - Room L-201

ENV-02-010. Evaluation of the road traffic noise and anomalous sound events annoyance on the population

Torija, Antonio J.; Ruiz, Diego P., Ramos, A.

Poster - Tuesday 4th afternoon - Board 09

ENV-03 - Environmental noise policy

Session Organizer: Birgitta Berglund

ENV-03-001-IP. Urban noise indicators: noise events and background noise

Jacques Beaumont

S.01 Monday 3rd - 15:00 - Room L-202

ENV-03-002. Urban and building acoustics management in the next decades: A matter of prevention,

simplification and education

Baring, João Gualberto de Azevedo

S.01 Monday 3rd - 15:20 - Room L-202

ENV-03-003. Evaluation of acoustic noise from music activities. is dB(A) correct?

Barti. Robert

S.01 Monday 3rd - 15:40 - Room L-202

ENV-03-004. A national project to evaluate and reduce high sound levels from music

Bengtsson Ryberg, Johanna; Norberg, Kristina

S.01 Monday 3rd - 16:00 - Room L-202

ENV-03-005. Noise mortgage - another way of noise abatement

Boegli, Hans; Menk, Julia; Hauser, Andreas; Abbuehl, Frank

S.01 Monday 3rd - 16:20 - Room L-202

ENV-03-006. Construction noise policy in New York City

Rosen, Stephen; Sachwald, Benjamin
Poster - Tuesday 4th afternoon - Board 10

ENV-03-007. Screen use possibilities as protection from transport noise and prospects

of their improvement

Danielius Guzas; Robertas Klimas; Vaclovas Tricys Poster - Tuesday 4th afternoon - Board 11

ENV-03-008. Comparison of measured noise pollution levels in a large German city with calculated levels according

to guidelines

Poland, Kathleen; Nickel, Willi; Aflalo, Eric Poster - Tuesday 4th afternoon - Board 12

ENV-04 - Long-term evaluation of the impact of environmental noise

Session Organizers: Julie Hatfield; Irene van Kamp

ENV-04-001-IP. Associations between road traffic noise, aircraft noise and noise annoyance. preliminary results

of the hyena study

Babisch, Wolfgang; Houthuijs, Danny; Pershagen, Goran; Cadum, Ennio; Velonakis, Manolis;

Katsouyanni, Klea; Jarup, Lars

S.06 Thursday 6th - 09:00 - Romm L-202

ENV-04-002-IP. Longitudinal effects of a sudden change in aircraft noise exposure on annoyance and sleep

disturbance around Amsterdam airport.

Breugelmans, Oscar; Houthuijs, Danny; van Kamp, Irene; Stellato, Rebecca; van Wiechen, Carla;

Doornbos, Gerda

S.06 Thursday 6th - 09:20 - Romm L-202

ENV-04-003-IP. The effects of changes in noise exposure on perceived control over noise and its relationship

with mood and reaction; a longitudinal survey

Hatfield, J.; Job, R.F.S.; Hede, A.J.; Peploe, P.; Carter, N.L.; Taylor, R.; Morrell, S.

S.06 Thursday 6th - 09:40 - Romm L-202

ENV-04-004-IP. Annoyance and noise sensitivity in urban areas

Griefahn, Barbara; Marks, Anke; Gjestland, Truls; Preis, Anna

S.06 Thursday 6th - 10:00 - Romm L-202

ENV-04-005-IP. The role of attitudes and sensitivity in reactions to changing noise

Job, R.F.S,; Hatfield, J.; Hede, A.J.; Peploe, P.; Carter, N.L.; Taylor, R.; Morrell, S.

S.06 Thursday 6th - 10:20 - Romm L-202

ENV-04-006-IP. Environmental Noise and Mental Health

Irene van Kamp, Danny Houthuijs, Carla van Wiechen, Rebecca. Stellato,

Oscar Breugelmans

S.06 Thursday 6th - 10:40 - Romm L-202

ENV-05 - Low frequency noise

Session Organizer: Martijn Vercammen

ENV-05-001-IP. Criteria for low frequency noise

Vercammen, Martijn

S.03 Tuesday 4th - 15:00 - Room L-201

ENV-05-002-IP. An investigation of twenty-one cases of low-frequency noise complaints

Pedersen, Christian Sejer; Møller, Henrik; Waye, Kerstin Persson

S.03 Tuesday 4th - 15:20 - Room L-201

ENV-05-003-IP. Indoor measurements of low-frequency noise for annoyance assessment

Pedersen, Steffen; Møller, Henrik; Persson Waye, Kerstin

S.03 Tuesday 4th - 15:40 - Room L-201

ENV-05-004-IP. The Missing 16 Hz - Can We Live With It?

Broner, Norm

S.03 Tuesday 4th - 16:00 - Room L-201

ENV-05-005. Sensitivity of the existing entertainment noise survey methods to varying musical events

Stojiljkovic, Milan; Vlaovic, Igor

S.03 Tuesday 4th - 16:20 - Room L-201

ENV-06 - Noise barriers

Session Organizers: Jean Pierre Clairbois; Christo Padmos; Damaso Alegre

ENV -06-001-IP. Prediction of noise barrier performance from intrinsic acoustical characteristics

Padmos, Cristo J.; De Roo, Foort S.08 Friday 7th - 10:20 - Room L-201

ENV-06-002-IP. How to predict the far field effect of barrier tops from diffraction test results

De Roo, Foort; Padmos, Cristo J. S.08 Friday 7th - 10:40 - Room L-201

ENV-06-003-IP. Effects of the double diffraction edge on traffic noise levels in the far field

Hans van Leeuwen; Renez Nota S.08 Friday 7th - 11:00 - Room L-201

ENV-06-004-IP. Using cen/ts 1793-4 to develop an acoustically effective added device

for road traffic noise barriers Garai, Massimo; Guidorzi, Paolo S.08 Friday 7th - 11:20 - Room L-201

ENV-06-005. Influence of the type of ground on the effectiveness of an acoustic barrier

Tarrero Fernández, A.I.; Martín Bravo, Mª A.; González Suárez, J.; Machimbarrena Gutiérrez, M.;

García Sastre, L.

S.08 Friday 7th - 11:40 - Room L-201

ENV-06-006. Lifting preliminary of attenuation of noise by means of vegetable encountered on the biomass

of the fenced-in tract of land forest gross & forest amazônica

Almeida, J.S.; Arruda, I.L.

Poster - Tuesday 4th afternoon - Board 13

ENV-07 - Noise mapping and action planning

Session Organizer: Wolfgang Probst

ENV-07-001-IP. Noise mapping by computer modelling: A practical implementation

Hernández Soto, Pablo; Puig i Solé, Eduard S.06 Thursday 6th - 09:00 - Room L-201

ENV-07-002-IP. Geodesic systems for noise mapping and action planning – The new approach

Notario, Antonio

S.06 Thursday 6th - 09:20 - Room L-201

ENV-07-003. Large scale noise mapping in alpine valleys with MITHRA-SIG Baulac, Marine; Defrance, Jérôme; Olny, Xavier; Miège, Bernard; Yvon, Claude S.06 Thursday 6th - 09:40 - Room L-201 ENV-07-004. Preparation of noise action plans for major roads, railways and airports according to European Directive 2002/49/EC Cholava, Rudolf; Markova, Petra; Smekal, Petr S.06 Thursday 6th - 10:00 - Room L-201 ENV-07-005. Outdoor Sound Propagation in Mountainous Areas: Comparison of Reference and Engineering Models De Greve, Bram; Van Renterghem, Timothy; Botteldooren, Dick S.06 Thursday 6th - 10:20 - Room L-201 ENV-07-006. A comparison of two models for outdoor sound propagation: Harmonoise and Nord2000 Jónsson, Gunnar Birnir; Jacobsen, Finn S.06 Thursday 6th - 10:40 - Room L-201 ENV-07-007. The development of an independent noise prediction model King, Eoin; Rice, Henry S.06 Thursday 6th - 11:00 - Room L-201 ENV-07-008. Exploring environmental noise in a virtual 3D world Pilla, Francesco; Rice, Henry S.06 Thursday 6th - 11:20 - Room L-201 ENV-07-009. Calculate noise of wind-farms Sénat, Claude; Garrigues, Sébastien; Gamba, René S.06 Thursday 6th - 11:40 - Room L-201

ENV-07-010. Comparison among different solutions for the reduction of traffic noise issues

Morcillo, Miguel A.; Bragado, Beatriz; Hidalgo, Antonio; Hernández, María J.;

García, Carlos

Poster - Tuesday 4th afternoon - Board 14

ENV-07-011. Noise map of traffic flow in oldtown Lima, Peru Llimpe, Celso; Piaggio, Miguel, Moreno, Jorge Poster - Tuesday 4th afternoon - Board 15

ENV-07-012. Geothermal power plants noise mapping
Strani, Giancarlo
Poster - Tuesday 4th afternoon - Board 16

ENV-08 – Prediction of sound propagation in urban environment Session Organizer: Jian Kang

ENV-08-001-IP. A markovian technique for predicting noise propagation in a street containing obstructions

Oldham, David; Haron, Zaiton

S.07 Thursday 6th - 15:00 - Room L-201

ENV-08-002-IP. Sound field modeling in urban areas using the transport theory Picaut, Judicaël; Colle, Stéphane; Bérengier, Michel S.07 Thursday 6th - 15:20 - Room L-201

ENV-08-003-IP. Combined ray-tracing and radiosity simulation for urban open spaces Meng, Yan; Kang, Jian S.07 Thursday 6th - 15:40 - Room L-201

ENV-08-004-IP. Improving the shielding of road traffic noise incourtyards: Treatments with vertical and horizontal screens

Hornikx, Maarten; Forssén, Jens

S.07 Thursday 6th - 16:00 - Room L-201

ENV-08-005-IP. Effects of urban morphological characteristics on the noise distribution:

A comparison between the UK and China

Wang, Bo, Kang, Jian, Zhou, Jie

S.07 Thursday 6th - 16:20 - Room L-201

ENV-08-006-IP. How to evaluate the accuracy of a noise map

Probst, Wolfgang; Huber, Bernd

S.07 Thursday 6th - 16:40 - Room L-201

ENV-08-007. Italian railways noise description: Comparison between measurements and simulations

Ausejo, Miguel; Recuero, Manuel; Fausti, Patrizio; Quiqueto, Giuliano

S.07 Thursday 6th - 17:00 - Room L-201

ENV-08-008. A method for prediction of the stabilization time in traffic noise measurements

Torija, Antonio J.; Ruiz, Diego P., Ramos, A. S.O7 Thursday 6th - 17:20 - Room L-201

ENV-08-009. A methodology to estimate the effect of pavement management on noise emission

in urban areas

Bérengier, Michel; Bendtsen, Hans; Haider, Manfred

S.07 Thursday 6th - 17:40 - Room L-201

ENV-08-010. Obtaining of a factor to describe the anomalous sound events in traffic noise measurements

Torija, Antonio J.; Ruiz, Diego P., Ramos, A. S.08 Friday 7th - 09:00 - Room L-201

ENV-08-011. Noise pollution level corrected in terms of the incident total sonorous energy

Torija, Antonio J.; Ruiz, Diego P., Ramos, A. S.08 Friday 7th - 09:20 - Room L-201

ENV-08-012. IMAGINE project: urban measurements of Lden and Lnight and calculation of the associated

uncertainties

Paviotti, Marco; Kephalopoulos, Stylianos; Jonasson, Hans

S.08 Friday 7th - 09:40 - Room L-201

ENV-08-013. Comparison of computer software for external noise prediction

Martínez, Ede; Recuero, Manuel S.08 Friday 7th - 10:00 - Room L-201

ENV-08-014. Characterization of the different types of vehicles flow in traffic

Torija, Antonio J.; Ruiz, Diego P., Ramos, A. Poster - Tuesday 4th afternoon - Board 17

ENV-08-015. Influence of the type of route in the acoustic emission of different types

of vehicles in traffic

Torija, Antonio J.; Ruiz, Diego P., Ramos, A. Poster - Tuesday 4th afternoon - Board 18

ENV-09 - Sound quality outdoors

Session Organizers: Daniele Dubois; Catherine Guastavino

ENV-09-001-IP. Perception of product sound quality and sound quality in soundscapes

Brigitte Schulte-Fortkamp; Klaus Genuit; André Fiebig

S.05 Wednesday 5th - 15:00 - Room L-201

ENV-09-002. Criteria for the determination of the area to be mapped around roads

(Directive 2002/49/EC)

Zambon, Giovanni; Radaelli, Simone; Bisceglie, Alessandro

S.05 Wednesday 5th - 15:20 - Room L-201

ENV-09-003-IP. NOIDESc: Incorporating Feature Descriptors into a Novel Railway Noise Evaluation Scheme

Brian Gygi, Werner A. Deutsch, Anton Noll, Alexander Hirner, Timo Becker

S.05 Wednesday 5th - 15:40 - Room L-201

ENV-09-004-IP. Perceptual attributes of low amplitude sonic booms and other transient environmental sounds

heard outdoors

Marshall, Andrew; Davies, Patricia

S.05 Wednesday 5th - 16:00 - Room L-201

ENV-09-005-IP. Predicting listeners' reports of environmental sounds

Andringa, Tjeerd; van Grootel, Maarten S.05 Wednesday 5th - 16:20 - Room L-201

ENV-09-006. Environmental noise annoyance in Valencia (Spain). Classification of the noise according to phisical

approaches and psychoacoustics

José Romero Fau,. Salvador Cerdá Jordá, Alicia Jiménez, Jose Luis Miralles, José Vicente Garriques,

Rosa Cibrián, Jaume Segura

S.05 Wednesday 5th - 16:40 - Room L-201

ENV-09-007-IP. Sounds like a park: a computational technique to recognize soundscapes holistically,

without source identification

Aucouturier, Jean-Julien; Defreville, Boris S.05 Wednesday 5th - 17:00 - Room L-201

ENV-09-008-IP. Cognitive evaluation of sound quality: Bridging the gap between acoustic measurements

and meaning

Daniele Dubois, Guastavino, Catherine S.05 Wednesday 5th - 17:20 - Room L-201

ENV-09-009-IP. The influence of traffic flow pattern on communiti noise annoyance

Gjesland Truls

S.05 Wednesday 5th - 17:40 - Room L-201

ENV-10 - Soundscape and cultural perception

Session Organizers: Giovanni Brambilla; Luigi Maffei

ENV-10-001-IP. Acoustic Cartographies: Supporting Experiential Learning and Shared Understanding of the Natural Heritage

through Collaborative Mapping

Giaccardi, Elisa; Fogli, Daniela; Gelsomini, Ilaria; Pedrazzi, Francesca; Sabena, Gianluca;

Speed, Chris

S.01 Monday 3rd - 15:00 - Room L-201

ENV-10-002-IP. Soundscape in the archeological area of Pompei

Brambilla, Giovanni; De Gregorio, Leda; Maffei, Luigi; Masullo, Massimiliano

S.01 Monday 3rd - 15:20 - Room L-201

ENV-10-003-IP. Acoustic and visual factors affecting the construction of tranquil space

Pheasant, Robert; Horoshenkov, Kirill; Watts, Greg; Barrett, Brendan

S.01 Monday 3rd - 15:40 - Room L-201

ENV-10-004. The positive soundscape project

Davies, W. J.; Adams, M. D.; Bruce, N. S.; Cain, R.; Carlyle, A.; Cusack, P.; Hume, K. I.;

Jennings, P.; Plack, C. J.

S.01 Monday 3rd - 16:00 - Room L-201

ENV-10-005. Perception of a French city soundscapes by hearing impaired people

Saby, Laurent; Guarracino, Gérard; Premat, Eric

S.01 Monday 3rd - 16:20 - Room L-201

ENV-10-006. Sound environment qualitative assessment in the streets of Maracaibo – Venezuela

Quintero, Carolina; Recuero, Manuel S.01 Monday 3rd - 16:40 - Room L-201

ENV-10-007. Annoyance from industrial noise: Laboratory study regarding noises from transformers fitted

with a huge air cooling system

Alayrac, Marion; Marquis-Favre, Catherine; Viollon, Stéphanie

S.01 Monday 3rd - 17:00 - Room L-201

ENV-10-008. Influence of Low Frequency Sound Resembling Offshore Wind Turbine Noise on Fish

Mueller-Blenkle, Christina; Reíd, Dave; Jones, Emma G.; Lüdemann, Karin; Kafemann, Rudolf;

Elepfandt, Andreas

S.01 Monday 3rd - 17:20 - Room L-201

ENV-10-009. Importance of personal, attitudinal and contextual variables in the assessment of pleasantness

of the urban sound environment

Guillén, José Domingo; López Barrio, Isabel Poster - Tuesday 4th afternoon - Board 19

ENV-10-010. The soundscape experience

Guillén, José Domingo; López Barrio, Isabel Poster - Tuesday 4th afternoon - Board 20

ENV-11 - Transportation noise

Session Organizers: Jordi Romeu; Santiago Jiménez; Joan Cardona

ENV-11-001-IP. Characteristics of vibration and low frequency noise radiated from the highway bridge

and countermeasure

Saiji, Fukada; Yasuo, Kajikawa; Masanobu, Sugimoto; Hirokazu, Hama;

Tetsuo, Matsuda

S.04 Wednesday 5th - 09:00 - Romm L-202

ENV-11-002-IP. Induced vibrations due to high-speed trains: Córdoba-Málaga high speed line

Galvín, Pedro; Domínguez, José

S.04 Wednesday 5th - 09:20 - Romm L-202

ENV-11-003-IP. Vehicle passby noise prediction and audio synthesis

Molla, S.; Bongini, E.; Gautier, P.E.; Habault, D.; Mattéi, P.O.;

Poisson, F.

S.04 Wednesday 5th - 09:40 - Romm L-202

ENV-11-004. Modelling non-linear contact stiffness

Andersson, Patrik B.U.

S.04 Wednesday 5th - 10:00 - Romm L-202

ENV-11-005. Noise levels near roads of major cities of the united arab emirates

Hussein M Elmehdi, Nawal Nayfeh

S.04 Wednesday 5th - 10:20 - Romm L-202

ENV-11-006. Noise levels study produced by the air operations of the international airport

Arturo Merino Benítez of Santiago - Chile Marzzano, Antonio; Recuero, Manuel S.04 Wednesday 5th - 10:40 - Romm L-202

ENV-11-007. The effect of damping the wheels and varying wheel/rail friction coefficient

on railway noise

Vinolas, Jordi; Nieto, F. Javier; Lopez, Ines; Egaña, Javier I.

S.04 Wednesday 5th - 11:00 - Romm L-202

ENV-11-008. Investigation of noise impact of aircraft engine run-up test at a domestic airport

Yoshioka, Hisashi; Yamada, Ichiro

S.04 Wednesday 5th - 11:20 - Romm L-202

ENV-11-009. Road transport noise: assessment and simulation, action plans

and enhancement techniques

Hidalgo Otamendi, Antonio; Hernández Martín, Alberto,

Morcillo Sánchez, Miquel Angel

S.04 Wednesday 5th - 11:40 - Romm L-202

ENV-11-010. Influence of the traffic lights in the noise level generated by the road traffic

Torija, Antonio J.; Ruiz, Diego P., Ramos, A.

Poster - Tuesday 4th afternoon - Board 21

MUS - Musical Acoustics

MUS-01 - Acoustics of stringed instruments

Session Organizers: Jose Antunes; Octávio Inácio

MUS-01-001. Out-of-plane violin bridge in-situ motion

Fan, Christina; Bissinger, George

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MUS-01-002-IP. 3-Dimensional violin corpus motion and far-field radiativity

S.04 Wednesday 5th - 09:00 - Room R-401

Bissinger, George

S.04 Wednesday 5th - 09:20 - Room R-401

MUS-01-003-IP. lar and modal analysis in stringed traditional musical instruments

Tronchin, Lamberto

S.04 Wednesday 5th - 09:40 - Room R-401

MUS-01-004-IP. The role of vibrato in violin tone quality and historic performance

Gough, Colin

S.04 Wednesday 5th - 10:00 - Room R-401

MUS-01-005-IP. Resonance box of the guitar: Structure-fluid interaction

Elejabarrieta, María Jesús; Ezcurra, Amaia; Santamaría, Carlos

S.04 Wednesday 5th - 10:20 - Room R-401

MUS-01-006-IP. A substructure method for the computation of complex string/body coupled modes

from the unconstrained subsystems Antunes, José; Inácio, Octávio

S.04 Wednesday 5th - 10:40 - Room R-401

MUS-01-007. Numerical simulation of vibrating string subject to sawari mechanism

Taquti, Tomoyasu

S.04 Wednesday 5th - 11:00 - Room R-401

MUS-01-008-IP. Modelling and numerical simulation of strings based on lie groups and algebras.

Applications to the nonlinear dynamics of Reissner Beams

Joël Bensoam; David Roze

S.04 Wednesday 5th - 11:20 - Room R-401

MUS-01-009. Admittance Measurement of a Grand Piano Soundboard

Grigorios Plitsis

S.04 Wednesday 5th - 11:40 - Room R-401

MUS-01-010. Piano string vibration and the role of the bridge

Stulov, Anatoli; Erofeyev, Vladimir; Lissenkova, Elena

S.05 Wednesday 5th - 15:00 - Room R-401

MUS-01-011. Three-dimensional interaction between strings, bridge and soundboard in modern piano s treble range

Cuenca, Jacques; Caussé, René

S.05 Wednesday 5th - 15:20 - Room R-401

MUS-01-012. Piano Soundboard Under Prestress: A Numerical Approach

Mamou-Mani, Adrien; Frelat, Joël; Besnainou, Charles

S.05 Wednesday 5th - 15:40 - Room R-401

MUS-01-013. Experimental and theoretical study of the vibration of strings in the high register of the piano.

The effect of the "Duplex Scale" Zelmar, Philippe; Caussé, René

S.05 Wednesday 5th - 16:00 - Room R-401

MUS-01-014-IP. Analysis of the Sustain-Pedal Effect in the Grand Piano

Lehtonen, Heidi-Maria; Penttinen, Henri; Rauhala, Jukka; Välimäki, Vesa

S.05 Wednesday 5th - 16:20 - Room R-401

MUS-02 - Ancient instruments and traditional musical instruments

Session Organizers: Murray Campbell; Vincent Gibiat

MUS-02-001-IP. Acoustic measurements along the history of saxophone: from Adolphe Sax to vintage instruments

Vincent Gibiat, Hamid Louaked, Jerôme Selmer

S.01 Monday 3rd - 15:00 - Room R-401

MUS-02-002. Non-linear propagation characteristics in the evolution of brass musical instrument design

Myers, Arnold; Gilbert, Joël; Pyle, Robert W.; Campbell, D. Murray

S.01 Monday 3rd - 15:20 - Room R-401

MUS-02-003-IP. Measurement Techniques and the Playability of Terminal Horn Crooks

Jonathan Kemp, John Chick, Murray Campbell, Darren Hendrie, Arnold Myers

S.01 Monday 3rd - 15:40 - Room R-401

MUS-02-004-IP. What have we learnt from Dom Bédos about pipe organ actions?

Woolley, Alan

S.01 Monday 3rd - 16:00 Room R-401

MUS-02-005. Acoustical analysis for a txistu

Agos Esparza, Asier; Macho Stadler, Erica; Elejalde García, María Jesus

S.01 Monday 3rd - 16:20 - Room R-401

MUS-02-006-IP. Acoustica studies of historical keyboard instruments in the Royal College

of Music Museum of Instruments

Earis, Andrew; Daly, Melissa; JL Sun, Fei; Thompson, Richard C.

S.01 Monday 3rd - 16:40 - Room R-401

MUS-02-007-IP. Acoustics of Korean historical percussion instruments pyeongyeong and pyeonjong

Yoo Junehee, Suyoung Jin, Hyunsoo Kim, Koeng-mo Sung, Junguk Noh, Hyun-woo Ko,

Thomas Rossing

S.01 Monday 3rd - 17:00 - Room R-401

MUS-02-008. Introduction to the acoustic study of the Peruvian guena

Llimpe, Celso; Moreno, Jorge; Piaggio, Miguel S.01 Monday 3rd - 17:20 - Room R-401

MUS-02-009. Acoustic Transfer function of the Anjok: A bridge of the Korean traditional string instruments

Hyun-Woo Koh; Jung Uk Noh; Sangha Park; Koeng-mo Sung

S.01 Monday 3rd - 17:40 - Room R-401

MUS-02-010. Acoustic Radiation Pattern of the Sanjo Gayageum: A Korean traditional plucked string instrument

Jung Uk Noh; Hyun-Woo Koh; Koeng-mo Sung

Poster - Tuesday 4th afternoon - Board 22

MUS-02-011. Acoustic characteristics of the Haegeum body

Sangha Park; Jung Uk Noh; Ah-reum Lee; Koeng-Mo Sung

Poster - Tuesday 4th afternoon - Board 23

MUS-03 - Choir acoustics

Sesion Organizers: Sten Ternström; Malte Kob

MUS-03-001-IP. Larynx closed quotient variation in quartet singing

Howard, David M.

S.02 Tuesday 4th - 09:00 - Rom R-401

MUS-03-002-IP. Formant frequency adjustment in barbershop quartet singing

Ternström, Sten; Kalin, Gustaf

S.02 Tuesday 4th - 09:20 - Rom R-401

MUS-03-003-IP. Directivity measurements of adjacent singers in a choir

Jers, Harald

S.02 Tuesday 4th - 09:40 - Rom R-401

MUS-03-004-IP. Musicians' adjustment of performance to room acoustics - Part I: Experimental performance and interview in simulated sound field

Ueno, Kanako; Kato, Kosuke; Kawai, Keiji

S.02 Tuesday 4th - 10:00 - Rom R-401

MUS-03-005-IP. Musicians adjustment of performance to room acoustics, Part II: Acoustical analysis of performed sound signals

Kato, Kosuke; Ueno, Kanako; Kawai, Keiji S.02 Tuesday 4th - 10:20 - Rom R-401

MUS-03-006-IP. Voice assessment in choir singers using a virtual choir environment Libeaux, Angela; Lentz, Tobias; Houben, Diana; Kob, Malte S.02 Tuesday 4th - 10:40 - Rom R-401

MUS-04 - Linear and nonlinear modes in musical acoustics

Session Organizers: Christophe Vergez, Jean Kergomard

MUS-04-001-IP. Theoretical and experimental investigations of harp's sympathetic modes Le Carrou, Jean-Loïc; Gautier, François, Badeau, Roland S.05 Wednesday 5th - 16:40 - Room R-401

MUS-04-002-IP. A linearized modal analysis of the bowed string Inácio, Octávio; Antunes, José S.05 Wednesday 5th - 17:00 - Room R-401

MUS-04-003-IP. Effects of a static transverse load on nonlinear dynamical properties of a buckled beam:

A reduced order 2 degrees of freedom model Mamou-Mani, Adrien; Frelat, Joël; Besnainou, Charles S.05 Wednesday 5th - 17:20 - Room R-401

MUS-04-004-IP. Non linear modal approach for electrodynamic loudspeaker modeling Quaegebeur, Nicolas; Chaigne, Antoine S.05 Wednesday 5th - 17:40 - Room R-401

 $\hbox{MUS-04-005-IP. Non-linear vibrations of shallow spherical caps with imperfections:} \\$

Resonant forcing and mode coupling Olivier Thomas; Cédric Camier; Cyril Touzé S.06 Thursday 6th - 09:00 - Room R-401

MUS-04-006-IP. Modal representations and computational complexity in physical modeling sound synthesis applications

Bilbao, Stefan

S.06 Thursday 6th - 09:20 - Room R-401

MUS-04-007. Simulation of single reed instruments oscillations based on modal decomposition of bore

and reed dynamics

Silva, F.; Debut, V.; Kergomard, J.; Vergez, C.; Deblevid, A.; Guillemain, P.

S.06 Thursday 6th - 09:40 - Room R-401

MUS-04-008-IP. Analysis and synthesis of bowed plates

Serafin, Stefania

S.06 Thursday 6th - 10:00 - Room R-401

MUS-04-009. Sound synthesis of a non-linear string using volterra series

Roze, David; Hélie, Thomas

S.06 Thursday 6th - 10:20 - Room R-401

MUS-04-010. On the properness condition for the complex modes in vibroacoustic

modal analysis

Emmanuel Foltete, Morvan Ouiss

S.05 Wenesday 5th - 18:00 - Room R-401

MUS-05 - Physical models and virtual musical instruments

Session Organizer: Vesa Valimäki

MUS-05-001-IP. Timbre control of a real-time percussive synthesizer

Aramaki, Mitsuko; Kronland-Martinet, Richard; Voinier, Thierry; Ystad, Solvi

S.06 Thursday 6th - 10:40 - Room R-401

MUS-05-002-IP. Some comments on computational issues in modularized physical modeling

sound synthesis Bilbao, Stefan

S.06 Thursday 6th - 11:00 - Room R-401

 $\,$ MUS-05-003-IP. A brief survey of the lattice Boltzmann method in musical acoustics

Da Silva, Andrey R.; Kuehnelt, Helmut; Scavone, Gary

S.06 Thursday 6th - 11:20 - Room R-401

MUS-05-004-IP. Physical modeling studies of the piano and violin

Giordano, N.; McKinney, C. P.

S.06 Thursday 6th - 11:40 - Room R-401

MUS-05-005-IP. The Dynamically Varying Digital Waveguide Mesh

Murphy, Damian; Shelley, Simon; Ternström, Sten; Howard, David

S.07 Thursday 6th - 15:00 - Room R-401

MUS-05-006-IP. Combining Performance Actions with Spectral Models for Violin Sound

Transformation

Pérez, Alfonso; Bonada, Jordi; Maestre, Esteban; Guaus, Enric; Blaauw, Merlijn

S.07 Thursday 6th - 15:20 - Room R-401

MUS-05-007-IP. Recent advances in real-time bowed string synthesis: Evaluation of the models

Serafin, Stefania; Young, Diana

S.07 Thursday 6th - 15:40 - Room R-401

MUS-05-008-IP. Modeling and Measurement of Wind Instrument Bores

Smyth, Tamara; Abel, Jonathan

S.07 Thursday 6th - 16:00 - Room R-401

MUS-05-009-IP. Towards physics-based re-synthesis of woodwind tones

Van Walstijn, Maarten; De Sanctis, Giovanni

S.07 Thursday 6th - 16:20 - Room R-401

MUS-05-010. Physical Modelling and Measurements of Plate Reverberation

Kevin Arcas

S.07 Thursday 6th - 16:40 - Room R-401

MUS-05-011. Cymatic: a real-time tactile-controlled physical modelling musical instrument

Howard, David M.; Murphy, Damian T.

S.07 Thursday 6th - 17:00 - Room R-401

MUS-05-012. Aspects on physical modelling of a Chinese string instrument - the Guqin

Penttinen, Henri; Pakarinen, Jyri; Välimäki, Vesa; Laurson, Mikael; Kuuskankare, Mika; Li, Henbing;

Leman, Marc

S.07 Thursday 6th - 17:20 - Room R-401

MUS-05-013-IP. Modeling virtual percussions and their virtual actuators

Rovetta, Diego; Sarti, Augusto: Scarparo, Gabriele; Tubaro, Stefano

S.07 Thursday 6th - 17:40 - Room R-401

MUS-05-014. The estimation of the vibroacoustic parameters of the sounding boards

of musical instruments

Shlychkov, Sergey

Poster - Tuesday 4th afternoon - Board 24

MUS-06 - Production and perception of singing voices

Session Organizers: Malte Kob; Nathalie Henrich

MUS-06-001-IP. The activity of breathing muscles and thorax movement in classical singing

Viggo Pettersen

S.02 Tuesday 4th - 11:00 - Room R-401

MUS-06-002-IP. Vocal Registers and Laryngeal Mechanisms, a case study: The French "Voix Mixte"

Castellengo, Michèle, Lamesch, Sylvain, Henrich, Nathalie

S.02 Tuesday 4th - 11:20 - Room R-401

MUS-06-003-IP. Resonance tuning in singing

Smith, John; Henrich, Nathalie; Wolfe, Joe S.02 Tuesday 4th - 11:40 - Room R-401

MUS-06-004-IP. Directivity measurements of the singing voice

Katz, Brian F.G.; d'Alessandro, Christophe S.03 Tuesday 4th - 15:00 - Room R-401

MUS-06-005-IP. Vocal directivity of eight opera singers in terms of spectro-spatial parameters

Cabrera, Densil; Davis, Pamela J.; Connolly, Anna

S.03 Tuesday 4th - 15:20 - Room R-401

MUS-06-006-IP. Spectral correlates of carrying power in speech and western lyrical singing according to acoustic

and phonetic factors

Pillot, Claire; Vaissière, Jacqueline

S.03 Tuesday 4th - 15:40 - Room R-401

MUS-06-007. What are the spectral differences for singing sounds produced by different laryngeal mechanisms

in the same pitch range? Lamesch, Sylvain; Doval, Boris

S.03 Tuesday 4th - 16:00 - Room R-401

MUS-06-008. An acoustic study on singing voices taught with different singing techniques

Sobucki, Antoni

S.03 Tuesday 4th - 16:20 - Room R-401

MUS-06-009-IP. Observation of subharmonic voices

Sakakibara, Ken-Ichi; Imagawa, Hiroshi; Kimura, Miwako; Tokuda, Isao;

Tayama, Niro

S.03 Tuesday 4th - 16:40 - Room R-401

MUS-06-010. Exploration of vocal-folds and ventricular-bands interaction in singing using high-speed

cinematography and electroglottography

Bailly, Lucie; Henrich, Nathalie; Webb, Mal; Müller, Frank; Licht, Anna-Katharina;

Hess, Markus

S.03 Tuesday 4th - 17:00 - Room R-401

MUS-06-011-IP. Application and extensions of straight-based morphing for singing voice manipulations based

on vowel centred approach

Kawahara, Hideki

S.03 Tuesday 4th - 17:20 - Room R-401

MUS-06-012-IP. Physical modelling of the human voice - influence of high frequency

and acoustical coupling

Brutel-Vuilmet, Claire; Pelorson, Xavier; Van Hirtum, Annemie; Ruty, Nicolas

S.03 Tuesday 4th - 17:40 - Room R-401

MUS-07 - MUS-General

MUS-07-001. Vocal Tract Interactions in Recorder Performance

Chen, Jer-Ming; Laurin, Dan; Smith, John; Wolfe, Joe

S.08 Friday 7th - 09:00 - Room R-401

MUS-07-002. Reed vibration in western free-reed instruments Cottingham, James P. S.08 Friday 7th - 09:20 - Room R-401 MUS-07-003. Physical basis of musical consonance and its application to the construction of scales Fernández-Herrero, Olaya; Lorente, Miguel S.08 Friday 7th - 09:40 - Room R-401 MUS-07-004. Timbral adjectives for the control of a music synthesizer Howard, David M., Disley, Alastair C, Hunt, Andrew D. S.08 Friday 7th - 10:00 - Room R-401 An algorithm to evaluate the appropriateness for playing scales on the piano MUS-07-005. Seiko Akinaga, Masanobu Miura, Norio Emura and Yanagida Masuzo S.08 Friday 7th - 10:20 - Room R-401 MUS-07-006. FEM simulation of wall vibrations of brass instruments Smevik, Torunn S.08 Friday 7th - 10:40 - Room R-401 MUS-07-007. Noise reduction combining microphone and piezoelectric device Takahashi, Naoya; Matsumoto, Mitsuharu; Hashimoto, Shuji S.08 Friday 7th - 11:00 - Room R-401 MUS-07-008. The acoustics of the player-didjeridu system Wolfe, Joe; Fletcher, Neville; Hollenberg, Lloyd; Lange, Ben; Smith John; Tarnopolsky, Alex S.08 Friday 7th - 11:20 - Room R-401 Note extraction of music signals using wavelet transforms MUS-07-009. Charu Pathak S.08 Friday 7th - 11:40 - Room R-401 MUS-07-010. A new approach for the characterization of the resonance wood M. Caniato, S. Favretto, E. Lucchini Poster - Tuesday 4th afternoon - Board 25 MUS-07-011. Models of timbre using spectro-temporal receptive fields: investigation of coding strategies Elhilali, Mounya; Shamma, Shihab; Thorpe, Simon J.; Pressnitzer, Daniel Poster - Tuesday 4th afternoon - Board 26 MUS-07-012. Evaluation of the Emotional Affect Evoked by Music Satoshi, Oode; Johann Ichiro, Bomer; Atsushi, Imai; Akio Ando; Takashi Taniguchi Poster - Tuesday 4th afternoon - Board 27 MUS-07-013. An HMM based investigation of differences between musical instruments of the same type Eichner, Matthias; Wolff, Matthias; Hoffmann, Rüdiger Poster - Tuesday 4th afternoon - Board 28 MUS-07-014. A support system for practicing the drums using visual feedback Naoki Iwami; Masanobu Miura Poster - Tuesday 4th afternoon - Board 29 MUS-07-015. Estimating a chrod name for a set of notes played with a midi-guitar Yasushi Konoki, Norio Emura; Masanobu Miura Poster - Tuesday 4th afternoon - Board 30 MUS-07-016. Automatic score reduction for small-sized wind-orchestras from a score for standard wind-orchestras Maekawa, Hirosh; Emura, Norio; Miura, Masanobu; Yanaqida, Masuzo Poster - Tuesday 4th afternoon - Board 31 MUS-07-017. A System Yielding Harmony to Given Melodies based on the Theory of Popular Music Hikaru Morita; Norio Emura; Masanobu Miura; Masuzo Yanagida Poster - Tuesday 4th afternoon - Board 32

MUS-07-018. Generation of Suitable Phrases for Basic Training to overcome weak points in playing the piano

Masahiro Mukai; Norio Emura; Masanobu Miura; Masuzo Yanagida

Poster - Tuesday 4th afternoon - Board 33

MUS-07-019. An index for evaluating the performance proficiency of tremolo played by the Mandolin

Nozomiko Yasui, Masafumi Kinou and Masanobu Miura

Poster - Tuesday 4th afternoon - Board 34

MUS-07-020. Music therapy with a large-scale midi controller using a mat switch

Niikawa, Takuya; Yamagishi, Kazuaki; Onishi, Eri; Kawachi, Ryosuke; Minato, Kotaro; Yoshihara, Tatsuo;

Terayama, Naoya

Poster - Tuesday 4th afternoon - Board 35

MUS-07-021. A modular system yielding Jazz-style voicing for a given set of a melody and its chord name sequence

Norio Emura; Masanobu Miura; Masuzo Yanagida

Poster - Tuesday 4th afternoon - Board 36

MUS-07-022. Comparison between different resonance woods by a new scientific method

M. Caniato, S. Favretto, E. Lucchini

Poster - Wenesday 5th morning - Board 01

NLA - Non-linear Acoustics

NLA-01 - Cavitation and bubbly media

Session Organizers: Robert Mettin; Cleofé Campos

NLA-01-001-IP. Cavitation nuclei and thresholds of acoustic cavitation in ocean water

Akulichev, Victor

S.02 Tuesday 4th - 09:00 - Room R-201

NLA-01-002-IP. Optimization of the cavitation activity in pulsed ultrasound fields

Dezhkunov, Nikolai; Francescutto, Alberto; Calligaris, Franco; Ciuti, Piero, Fedorynchic, Michael

S.02 Tuesday 4th - 09:20 - Room R-201

NLA-01-003-IP. Liquid-bubble dynamics on ultrasonic applications

Fuster, Daniel; Hauke, Guillermo; Dopazo, César

S.02 Tuesday 4th - 09:40 - Room R-201

NLA-01-004-IP. Dynamics of an acoustically driven encapsulated gas bubble immersed in a liquid

Jiménez-Fernández, Javier

S.02 Tuesday 4th - 10:00 - Room R-201

NLA-01-005-IP. Numerical simulation of nonlinear ultrasonic waves in bubbly liquid

with nonhomogeneous bubble distribution Vanhille, Christian; Campos-Pozuelo, Cleofé S.02 Tuesday 4th - 10:20 - Room R-201

NLA-01-006-IP. Experimental observation of nonlinear self-focusing in the cavitation field

Campos-Pozuelo, Cleofé; Granger, Christian; Vanhille, Christian; Dubus, Bertrand

S.02 Tuesday 4th - 10:40 - Room R-201

Dispersive and nonlinear effects during wave propagation in biot medium NLA-01-007.

with fluid saturated cavities

Erofeyev, Vladimir; Pegushin, Anton; Sheshenin, Sergey

S.02 Tuesday 4th - 11:00 - Room R-201

NLA-01-008-IP. Sound propagation and bubble motion in a cavitating channel

Mettin, Robert, Claussen, Jann-Ohle; Campos-Pozuelo, Cleofé

S.02 Tuesday 4th - 11:20 - Room R-201

NLA-01-009. Nonlinear interaction of elastic waves in solid porous material

Pegushin, Anton; Erofeyev, Vladimir; Sheshenin, Sergey

S.02 Tuesday 4th - 11:40 - Room R-201

NLA-01-010. The effect of HIFU-relevant rates of heating on the growth and dissolution of nuclei available for inertial cavitation Webb, Ian R.; Arora, Manish; Collin, Jamie R.T.; Payne, Stephen J.; Roy, Ronald A. and Coussios, Constantin-C. S.03 Tuesday 4th - 15:00 - Room-R-201 NLA-01-011-IP. Acoustic shock waves as a cell-permeabilization method Loske, Achim; Martínez de la Escalera, Gonzalo; Armenta, Eduardo; Varela, Alfredo S.03 Tuesday 4th - 15:20 - Room-R-201 NLA-01-012. Remotely powered microfluidics Dijkink, Rory; Ohl, Claus-Dieter; Prosperetti, Andrea S.03 Tuesday 4th - 15:40 - Room-R-201 NLA-01-013-IP. Influence of ambient bubble radius on sonoluminescence and sonochemical reactions Yasui, Kyuichi; Tuziuti, Toru; Kozuka, Teruyuki; Towata, Atsuya; Iida, Yasuo S.03 Tuesday 4th - 16:00 - Room-R-201 NLA-01-014-IP. Reconstruction of sonoluminescent OH bands. From Hydrodynamics to Spectroscopy Thierry Lepoint, Bertrand Dubus S.03 Tuesday 4th - 16:20 - Room-R-201 NLA-01-015-IP. Sound, shells and sonoporation Michiel Postema S.03 Tuesday 4th - 16:40 - Room-R-201 NLA-01-016-IP. Soundwaves microbubble interactions: the effects of biomaterials in vicinity and different wave profiles Fong, Siew Wan; Klaseboer, Evert; Khoo, Boo Cheong S.03 Tuesday 4th - 17:00 - Room-R-201 NLA-01-017. Pressure pulses from transient cavitation in High-Q resonators Gaitan, D. Felipe; Tessien, Ross A., Hiller, Robert A S.03 Tuesday 4th - 17:20 - Room-R-201 NLA-01-018. Sonoluminescence in hetero organic volatile solvents at room temperature Troia, Adriano; Madonna-Ripa, Daniele; Spagnolo, Renato S.03 Tuesday 4th - 17:40 - Room-R-201 NLA-02 - Generation, measurement and modelling of high power sound waves in liquid or air Session Organizers: Vera Khokhlova; Philippe Blanc-Benon NLA-02-001-IP. High power ultrasound sources employed in lithotripsy and HIFU medical fields Cathignol, Dominique S.06 Thursday 6th - 09:00 - Room R-201 NLA-02-002-IP. High pressure pulses generated by piezoelectric half- and full-spheres applied to liquids Riedlinger, Rainer E.; Emter, Thomas; Liebler, Marko S.06 Thursday 6th - 09:20 - Room R-201 NLA-02-003-IP. High power focused ultrasound fields in therapeutic medical applications: Modeling and measurements with a fiber optic hydrophone Michael R. Bailey, Michael S. Canney, Vera A. Khokhlova, Oleg A. Sapozhnikov, and Lawrence A. Crum S.06 Thursday 6th - 09:40 - Room R-201 NLA-02-004-IP. Experimental study of a spark discharge as an acoustic source

NLA-02-005-IP. Measurements of acoustic pulses in shock wave lithotripsy in the presence of cavitation Pishchalnikov, Yuri; Kreider, Wayne; McAteer, James; Williams, James; Pishchalnikova, Irina; Bailey, Michael

S.06 Thursday 6th - 10:00 - Room R-201

Ayrault, Christophe; Bequin, Philippe; Legros, Mathieu

NLA-02-006-IP. Microorganism inactivation by acoustic cavitation produced with underwater shock waves Loske, Achim; Álvarez, Ulises; Ramírez, Araceli; Fernández, Francisco; Méndez, Arturo S.06 Thursday 6th - 10:40 - Room R-201

NLA-02-007. Spark-generated N-waves for laboratory-scale propagation experiments in air: Measurements and modeling Ollivier, Sébastien, Averiyanov Mikhail A., Yuldashev Petr V., Khokhlova Vera A.,

Blanc-Benon Philippe

S.06 Thursday 6th - 11:00 - Room R-201

NLA-02-008. Improvement of a directional loudspeaker by coupling of a piezoelectric film

and acoustic cavities

Alexandre Ritty, Bruno Gazengel, Pierrick Lotton and Pascal Hamery

S.06 Thursday 6th - 11:20 - Room R-201

NLA-02-009-IP. Acoustic pressures in miniature resonators

X. Y. Huang, N. T. Nguyen and C. Luo S.06 Thursday 6th - 11:40 - Room R-201

NLA-02-010. A study on effects of the valves of acoustic compressors on their delivery flow rate

Masuda, Mitsuhiro; Kawashima, Shintaro Poster - Wenesday 5th morning - Board 02

NLA-02-011. An experimental study of the scattering sound by sound reflected from

a concave surface

Sayin, Umut; Ivana Rosell Turull

Poster - Wenesday 5th morning - Board 03

NLA-03 - Nonlinear Acoustics in Medical ultrasound

Session Organizer: Michael Bailey

NLA-03-001-IP. Influence of a Bifrequency Excitation on the Ultrasonic Cavitation Threshold

Gilles, Bruno; Saletes, Izella ; Béra, Jean-Christophe

S.01 Monday 3rd- 16:20 - Room R-201

NLA-03-002-IP. Efficient heating and localized millisecond boiling in tissue phantoms by high

intensity focused ultrasound due to formation of shocks

Khokhlova, Vera; Canney, Michael; Bailey, Michael; Crum, Lawrence

S.01 Monday 3rd- 16:40 - Room R-201

NLA-03-003-IP. Nonlinear shear wave beams in soft tissue-like media

Wochner, Mark S.; Hamilton, Mark F.; Ilinskii, Yurii A.; Zabolotskaya, Evgenia A.

S.01 Monday 3rd- 17:00 - Room R-201

NLA-03-004. Frequency analysis of shock wave scattering to identify kidney stone fragmentation

in shock wave lithotripsy

Owen, Neil; Bailey, Michael; Sapozhnikov, Oleg; Crum, Lawrence

S.01 Monday 3rd- 17:20 - Room R-201

NLA-03-005. Nonlinear and diffraction effects in high intensity focused ultrasound beams

of various geometry

Bessonova Olga; Khokhlova Vera

Poster - Wenesday 5th morning - Board 04

NLA-04 - Nonlinear dynamic and chaos

Session Organizers: Werner Lauterborn; Ulrich Parlitz; Victor Espinosa

NLA-04-001-IP. Chaos and musical instruments

Vincent Gibiat

S.07 Thursday 6th - 15:00 - Room R-201

NLA-04-002-IP. Synchronization of organ pipes

M. Abel, S. Bergweiler

S.07 Thursday 6th - 15:20 - Room R-201

NLA-04-003-IP. Non linear dynamics and voice

Hans-Peter Herzel

S.07 Thursday 6th - 15:40 - Room R-201

 $NLA-04-004-IP. \ \ Cavity\ solitons\ and\ pattern\ formation\ in\ acoustic\ resonators\ containing\ a\ viscous\ medium$

Isabel Pérez-Arjona, V.J. Sánchez Morcillo, Germán J. de Valcárcel, Joan Martínez-Mora,

Javier Redondo

S.07 Thursday 6th - 16:00 - Room R-201

NLA-04-005. Modeling of low frequency electrodynamical loudspeaker as nonlinear driven

anharmonic oscilator

Petosic, Antonio; Djurek, Ivan; Djurek, Danijel S.07 Thursday 6th - 16:20 - Room R-201

NLA-04-006-IP. Hidden complexity of coupled nonlinear oscillators

Ulrich Parlitz

S.07 Thursday 6th - 16:40 - Room R-201

NLA-04-007. Complex dynamics in a magnetoacoustic resonator

V.J. Sánchez-Morcillo, J. Martínez-Mora, J. Redondo

Poster - Wenesday 5th morning - Board 05

NLA-05 - Nonlinear interactions of vibration modes in solid structures

Session Organizer: Adriano Alippi

NLA-05-001-IP. Non Linear Down-Frequency Conversion Effects in High Intensity Vibration of plate transducers

and piezoelectric structures

A. Alippi, A. Bettucci, E. Riera, J. A. Gallego Juarez

S.07 Thursday 6th - 17:00 - Room R-201

NLA-05-002-IP. Nonlinear influences of a localized defect in a solid resonator

Fillinger, Laurent; Zaitsev, Vladimir; Gusev, Vitalyi

S.07 Thursday 6th - 17:20 - Room R-201

NLA-05-003-IP. Nonlinear vibration spectra of planar defects in solids

Solodov, Igor

S.07 Thursday 6th - 17:40 - Room R-201

NLA-06 - Nonlinear methods in the evaluation of material microdamage

Session Organizer: Koen van den Abeele

NLA-06-001-IP. Elastic wave nonlinearity for monitoring of localized damage in engineering materials

Solodov, Igor; Busse, Gerhard

S.08 Friday 7th - 09:00 - Room R-201

NLA-06-002-IP. Nonlinearity based diagnosis and localization techniques

for microdamage detection

Koen Van Den Abeele, Pierre-Yves Le Bas S.08 Friday 7th - 09:20 - Room R-201

NLA-06-003-IP. Advances in time reversal nonlinear elastic wave spectroscopy (TR NEWS) for application to nonlinear

nondestructive evaluation, Imaging and source complexity

Paul Johnson, T.J. Ulrich, Brian Anderson S.08 Friday 7th - 09:40 - Room R-201

NLA-06-004-IP. Ultrasonic inter-modulation for global non-destructive testing

Courtney, C.R.P.; Drinkwater, B. W.; Neild, S.A.; Wilcox, P.D.

S.08 Friday 7th - 10:00 - Room R-201

NLA-06-005-IP. Monitoring fatigue damage in cortical bone using nonlinear elastic wave spectroscopy

TJ Ulrich, Paul A. Johnson, Marie Muller, Pascal Laugier, Maryline Talmant,

David Mitton

S.08 Friday 7th - 10:20 - Room R-201

NLA-06-006-IP. Higher harmonic imaging of micro damage and tight cracks Koichiro, Kawashima; Morimasa, Murase; Fumio, Fujita

S.08 Friday 7th - 10:40 - Room R-201

NLA-06-007-IP. Is stick-slip an important cause of acoustic dissipation in damaged synthetic opal?

Fillinger, Laurent; Gusev, Vitalyi S.08 Friday 7th - 11:00 - Room R-201

NLA-06-008. TR-New and NEWS-TR experiments for an imaging of the local nonlinearity in damaged

aeronautic complex structure

Serge Dos Santos, Pierre-Yves Le Bas, Koen Van Den Abeele, Thomas Goursolle, Olivier Bou Matar

S.08 Friday 7th - 11:20 - Room R-201

NLA-06-009-IP. Experimental study of the influence of corrosion on the nonlinear elastic properties

of metals

Ignacio Tinao Perez-Miravete, R. Rodríguez-Montejano,. C. Campos-Pozuelo

S.08 Friday 7th - 11:40 - Room R-201

NLA-06-010. Structural damage of aluminum alloy 6082 determined by nonlinear elastic

wave modulation spectroscopy

Straka, Ladislav; Yagodzinskyy, Yuriy; Hänninen, Hannu

Poster - Wenesday 5th morning - Board 06

NLA-07 - Numerical methods in non-linear acoustics

Session Organizers: Christian Vanhille; Cleofé Campos

NLA-07-001-IP. Numerical simulation of acoustical shock wave propagation in heterogeneous

and moving media

Coulouvrat, François; Marchiano, Régis; Ganjehi, Lili; Rollet, Christian

S.05 Wednesday 5th - 15:20 - Room R-201

NLA-07-002-IP. Numerical simulation of two-dimensional high-amplitude acoustic field in cylindrical resonators

using Kuznetsovs equation

Cervenka, Milan

S.05 Wednesday 5th - 15:40 - Room R-201

NLA-07-003-IP. Acoustic streaming in a resonance field of cylindrical standing waves

Yano, Takeru

S.05 Wednesday 5th - 16:00 - Room R-201

NLA-07-004-IP. Investigation of amplitude dependence on nonlinear acoustics using the direct simulation

Monte Carlo method

Hanford, Amanda D.; Long, Lyle N.

S.05 Wednesday 5th - 16:20 - Room R-201

NLA-07-005-IP. 2D and 3D pseudo spectral time domain simulations of elastic waves propagation

in nonlinear hysteretic heterogeneous solids: Application to Time Reversal Imaging

of Damaged Materials

Bou Matar, Olivier; Goursolle, Thomas; Dos Santos, Serge; Calle, Samuel

S.05 Wednesday 5th - 16:40 - Room R-201

NLA-07-006-IP. Numerical study of particle motion in a standing wave including nonlinear interactions

lcíar González

S.05 Wednesday 5th - 17:00 - Room R-201

NLA-07-007-IP. Radiation Force from Scattering Calculations: Beams and other Examples

Marston, Philip L. and Thiessen, David B. S.05 Wednesday 5th - 17:20 - Room R-201

NLA-07-008. 3D time-domain modeling of nonlinear medical ultrasound with a contrast source method:

behavior of the contrast sources

Huijssen, Jacob; Verweij, Martin D.; De Jong, Nico

S.05 Wednesday 5th - 17:40 - Room R-201

NLA-08 - Sonic boom

Session Organizers: François Coulouvrat; Philippe Blanc-Benon; Victor Sparrow

NLA-08-001-IP. From sonic boom to sonic puff

Plotkin, Kenneth J.

S.04 Wednesday 5th - 09:00 - Room R-201

NLA-08-002-IP. Sonic-boom research and low-boom demonstrator project in JAXA

Makino, Yoshikazu; Naka, Yusuke

S.04 Wednesday 5th - 09:20 - Room R-201

NLA-08-003-IP. HISAC midterm: Overview of sonic boom issues

Heron, Nicolas; Rogé, Gilbert; Johan, Zdenek; Coulouvrat, François,

Dagrau, Franck

S.04 Wednesday 5th - 09:40 - Room R-201

NLA-08-004-IP. Experimental simulation of the sonic boom at the laboratory scale

Thomas, JeanLouis; Coulouvrat, François; Marchiano, Régis; Baudoin, Michaël;

Ganjehi, Lili

S.04 Wednesday 5th - 10:00 - Room R-201

NLA-08-005-IP. Acoustic propagation and atmosphere characteristics derived from infrasonic waves generated

by the secondary sonic bang

Gainville, Olaf; Blanc, Elisabeth; Le Pichon, Alexis; Piserchia, Pierre-Franck;

Blanc-Benon, Philippe

S.04 Wednesday 5th - 10:20 - Room R-201

NLA-08-006-IP. A semantic differential study of low amplitude supersonic aircraft noise and other transient sounds

Marshall, Andrew; Davies, Patricia

S.04 Wednesday 5th - 10:40 - Room R-201

NLA-08-007. A complete process for sonic boom assessment with atmospheric and manoeuvres effects

Dagrau, Franck; Coulouvrat, François; Heron, Nicolas; Marchiano, Régis; Rogé, Gilbert;

Johan, Zdenek

S.04 Wednesday 5th - 11:00 - Room R-201

NLA-08-008. Numerical simulation of "low level" sonic boom propagation through random inhomogeneous

sound speed fields

Ollivier, Sébastien; Blanc-Benon, Philippe S.04 Wednesday 5th - 11:20 - Room R-201

NLA-08-009. Nonlinear propagation of shock waves through heterogeneous media

Ganjehi, Lili; Marchiano, Régis; Coulouvrat, François; Thomas, Jean-Louis

S.04 Wednesday 5th - 11:40 - Room R-201

NLA-08-010. Perceived loudness fluctuations in low-boom signatures due to atmospheric turbulence

Locey, Lance L.; Sparrow, Victor W.

S.05 Wednesday 5th - 15:00 - Room R-201

NLA-09 — Subharmonic generation in acoustic resonators

Session Organizers: Mack Breazeale; Victor Sanchez-Morcillo

 $\label{lem:nla-09-001-IP.} \begin{tabular}{ll} NLA-09-001-IP. & On the development of acoustical parametric oscillators \end{tabular}$

Breazeale, M. A.; Ostrovsky, L.

S.01 Monday 3rd- 15:00 - Room R-201

NLA-09-002-IP. Nonlinear dynamics of parametric sound generation

V.J. Sánchez Morcillo, V. Espinosa, I. Pérez-Arjona, J. Redondo

S.01 Monday 3rd- 15:20 - Room R-201

NLA-09-003-IP. Stability Zones and Acoustic Parametric Oscillation

McPherson, Michael S.; Breazeale, M. A.; Teklu, Alem

S.01 Monday 3rd- 15:40 - Room R-201

 $\label{lem:nla-op-one-state} \textbf{NLA-09-004-IP.} \ \ \textbf{A parametric ultrasonic method for the evaluation of adhesive layer}$

S.I. Rokhlin and L. Adler

S.01 Monday 3rd- 16:00 - Room R-201

NLA-10 - NLA-General

NLA-10-001. Optical measurement and numerical simulations of the self-modulated

low frequency displacement

Rénier, Mathieu; Barriére, Christophe, Marchiano, Régis, Coulouvrat, François, Royer Daniel

S.04 Wednesday 5th - 09:00 - Room R-103

NLA-10-002. Study of the nonlinear flow due to a change of section in an acoustic waveguide

using piv and pod

Marx, David; Bailliet, Hélène ; Valière, Jean-Christophe

S.04 Wednesday 5th - 09:20 - Room R-103

NLA-10-003. LDV measurement of fast acoustic streaming in a standing wave guide

Moreau, Solenn; Bailliet, Hélène; Valière, Jean-Christophe

S.04 Wednesday 5th - 09:40 - Room R-103

NLA-10-004. On momentum of sound pulses

Voronovich, Alexander

S.04 Wednesday 5th - 10:00 - Room R-103

NLA-10-005. Nonlinear acoustic imaging of isoechogenic objects and flows using ultrasound

wave phase conjugation

Philippe Pernod, Vladimir Preobrazhensky, Yuri Pylönov, Leonid Krutyansky

S.08 Friday 7th - 09:40 - Room R-101

NLA-10-006-IP. Acoustic virtual laboratory: A modeling tool for wave processes and high intensity

focused ultrasound (HIFU) applications Francesco P. Curra, Steven G. Kargl S.08 Friday 7th - 10:00 - Room R-101

NLA-10-007. Study of the nonlinear flow due to a change of section in an acoustic waveguide using PIV and POD

David Marx, Helene Bailliet, Jean-Christophe Valière

S.08 Friday 7th - 10:20 - Room R-101

NLA-10-008. Thermo-acoustic nonlinear studies in aqueous DNA solution

O.P.Chimankar, V.A Tabhane

S.08 Friday 7th - 10:40 - Room R-101

NLA-10-009. Description of plane progressive nonlinear waves

Bednarik, Michal

Poster - Wenesday 5th morning - Board 07

NLA-10-010. Properties of the nonlinear standing waves generated by a vibrating boundary

Konicek, Petr

Poster - Wenesday 5th morning - Board 08

NLA-10-011. Diffraction of nonlinear N-wave behind a random phase screen

Yuldashev, Petr; Khokhlova, Vera; Averiyanov, Mikhail; Blanc-Benon, Philippe

Poster - Wenesday 5th morning - Board 09

NOI- Noise: sources and control

NOI-01 - Aircraft noise

Session Organizers: Jordi Romeu; Yasuaki Okada

NOI-01-001-IP. Effect of atmospheric absorption on aircraft noise propagation in several world

regions during a year

Okada, Yasuaki; Yoshihisa, Koichi; Iwase, Teruo S.04 Wednesday 5th - 11:00 - Room L-203 NOI-01-002-IP. Recent progress in development of airport noise models in Japan

Yamada, Ichiro

S.04 Wednesday 5th - 11:20 - Room L-203

NOI-01-003-IP. Architectural measures aimed at solving the problem of aircraft noise in buildings

Zamora-Mestre, Joan-Lluís

S.04 Wednesday 5th - 11:40 - Room L-203

NOI-01-004-IP. The use of sound intensity for the determination of the acoustic trajectory

of aircrafts

Moschioni, Giovanni; Saggin, Bortolino; Tarabini, Marco.

S.05 Wednesday 5th - 15:00 - Room L-203

NOI-01-005. Short term annoyance due to aircraft noise

Barbot, Benoit; Lavandier, Catherine S.05 Wednesday 5th - 15:20 - Room L-203

NOI-01-006. Effect of noise generated by VF-5 airplanes on the function of the heart

F. Méndez y M. Recuero

S.05 Wednesday 5th - 15:40 - Room L-203

NOI-01-007. Interior active noise control in turbofan aircraft: Numerical simulation and experimental validation

for optimal actuators positioning

Monaco, Ernesto; Franco, Francesco; ladevaia, Michele; Lecce, Leonardo

S.05 Wednesday 5th - 16:00 - Room L-203

NOI-01-008. Aeroacoustic research at the University of Adelaide: Development of an experimental facility,

initial results, and future research programme Damien Leclercq, Con Doolan, Capucine Roux S.05 Wednesday 5th - 16:20 - Room L-203

NOI-01-009. Reconstruction of Acoustic Source Strengths for Broadband Noise Control in

a Lined Duct

Bravo, Teresa; Maury, Cedric

S.05 Wednesday 5th - 16:40 - Room L-203

NOI-01-010. Analytical and experimental studies of the Herschel-Quincke tubes by its acoustic

scattering matrix

Poirier, Benjamin; Foucart, Felix; Maury, Cédric; Ville, Jean-Michel

S.05 Wednesday 5th - 17:00 - Room L-203

NOI-02 - Automotive acoustics

NOI-02-001-IP. In-situ measurements of the complex acoustic impedance of materials in vehicle interiors

Leonardo Miranda, Jorge D. Alvarez B., Finn Jacobsen

S.03 Tuesday 4th - 17:00 - Room L-203

NOI-02-002. Active noise control inside the ambulance, doing a comparative study

Rosely M. V. Campos, Rodrigo Caputo, Aline U. Santos

S.03 Tuesday 4th - 17:20 - Room L-203

NOI-02-003. Noise from road traffic and its effects on the central nervous system of informal and formal commercial

traders in the centre of Barquisimeto Díaz, Luz Mariana; Recuero, Manuel S.03 Tuesday 4th - 17:40 - Room L-203

NOI-02-004. Experimental investigation of acoustic properties of mufflers with perforated pipes

Guo, Ying; Dolinar, Andreas; Åbom, Mats; Allam, Sabry

S.04 Wednesday 5th - 09:00 - Room L-203

NOI-02-005. Theoretical prediction of ground vibrations from heavy military vehicles

Krylov, V.V., McNuff, J. and Pickup, S. S.04 Wednesday 5th - 09:20 - Room L-203

NOI-02-006. Experimental investigation of sound power radiation form partly open enclosure with numerous interior objects Lindberg, Eskil; Andersson, Patrik B.U. S.04 Wednesday 5th - 09:40 - Room L-203 NOI-02-007. Acoustic behaviour of circular mufflers with single inlet and double opposite outlet Antebas, Antoine G.; Pedrosa, Ana M.; Denia, Francisco D.; Fuenmayor, F. Javier S.04 Wednesday 5th - 10:00 - Room L-203 NOI-02-008. Measurement of Impulsive Sound Rasmussen, Gunnar; Rasmussen, Per S.04 Wednesday 5th - 10:20 - Room L-203 NOI-02-009. FEM/BEM numerical modeling of a diesel engine acoustic emission Siano, Daniela; Amoroso, Francesco S.04 Wednesday 5th - 10:40 - Room L-203 NOI-02-010-IP. Psychoacoustic analysis of rattling noise inside vehicle cabins Rossi, Federico; Nicolini, Andrea Poster - Wenesday 5th morning - Board 10 NOI-02-011. Subjective evaluation of air-conditioning sound in a vehicle using psychoacoustic parameters Nakasaki, Ryota; Haseqawa, Hiroshi; Ozeki, Yukio; Onda, Masaharu; Kasuqa, Masao Poster - Wenesday 5th morning - Board 11 NOI-03 - Industrial noise NOI-03-001-IP. Does exposure to different realistic industrial noises cause distinguishable cochlear damage in awake guinea pigs? Emmerich, Edeltraut; Linss, Volker; Linss, Werner; Richter, Frank S.06 Thursday 6th - 09:00 - Room L-203 NOI-03-002. An examination of some noisy plants in Istanbul according to the European directive llgürel, Nuri; Serefhanoglu Sözen, Müjgan S.06 Thursday 6th - 09:20 - Room L-203 NOI-03-003. Psychoacoustic characterisation of the noise at the operator position of a compact loader during real working conditions Carletti, Eleonora; Casazza, Camilla; Pedrielli, Francesca S.06 Thursday 6th - 09:40 - Room L-203 Aeroacoustic coupling of a misaligned jet-slot-oscillator with non-planar modes of a resonator NOI-03-004. Glesser, Martin; Billon, Alexis; Valeau, Vincent; Sakout, Anas S.06 Thursday 6th - 10:00 - Room L-203 NOI-03-005. Effect of vaned diffuser on noise generated by vacuum cleaner suction units Cudina, Mirko; Prezelj, Jurij S.06 Thursday 6th - 11:20 - Room L-203 NOI-03-006. Mitigation of noise generated by transformers of high tension electrical stations Bellomini, Raffaella; Luzzi, Sergio; Borchi, Francesco; Giorgi, Alberto; Gori, Manuel Poster - Wenesday 5th morning - Board 12 NOI-03-007. Noise exposure and work-related injury rate in woodworkers Gomzi, Milica Poster - Wenesday 5th morning - Board 13 NOI-03-008. The identification of ultrasonic noise based on the questionnaire method Smaqowska, Bozena; Mikulski, Witold Poster - Wenesday 5th morning - Board 14 NOI-03-009. Evaluation of noise characteristics for sound absorbent materials and structures Bratu, Polidor Poster - Wenesday 5th morning - Board 15

NOI-03-010. Technical means intended to reduce noise inside cabins provided on construction equipment Bratu, Polidor
Poster - Wenesday 5th morning - Board 16

NOI-03-011. Structural and functional analysis of the vibration insulation in case of construction machines cabin Mihalcea, Aurelia

Poster - Wenesday 5th morning - Board 17

NOI-04 - Noise measurements

NOI-04-001-IP. Noise emission analisys of a DMU train
Rusciano, Nicola; Viscardi, Massimo; Lecce, Leonardo
S.02 Tuesday 4th - 09:00 - Room L-203

NOI-04-002. Computer aided system for acoustical data acquisition, updating and distribution Bartlomiej Borkowski
S.02 Tuesday 4th - 09:20 - Room L-203

NOI-04-003. The Virginia Tech Stability Wind Tunnel From an Aerodynamic Into an Aeroacoustic Facility

Camargo, Hugo; Remillieux, Marcel; Burdisso, Ricardo; Crede, Erin; Devenport, William

S.02 Tuesday 4th - 09:40 - Room L-203

NOI-04-004. Identification and quantification of acoustic amplification for computing device enclosures *Córdova, José A., De la Guardia, Rafael; Beltman, Willem M.*S.02 Tuesday 4th - 10:00 - Room L-203

NOI-04-005. Transducer Response Equalization
Gade, Svend; Schack, Tommy; Thorhauge, Ole
S.02 Tuesday 4th - 10:20 - Room L-203

NOI-04-006. A proposal of the criterion for eliminating abnormal sounds contaminating the road traffic noise Yuichi Kato; Tetsuro Saeki; Tamotsu Kitagawa
S.02 Tuesday 4th - 10:40 - Room L-203

NOI-04-007. Measurement and assessment of exposure to noise in a working environment - difficulties and responsibilities

Krajcarz, Fabien

S.02 Tuesday 4th - 11:00 - Room L-203

NOI-04-008. Traffic and industrial noise protection in urban areas — experience from Croatia Lakusic, Stjepan; Vesna, Dragcevic; Dalibor, Bartos S.02 Tuesday 4th - 11:20 - Room L-203

NOI-04-009. Correlation factors between statistical pass-by and close-proximity noise level on Italian roads

Licitra, Gaetano; Losa, Massimo; Alfinito, Luca; Cerchiai, Mauro S.02 Tuesday 4th - 11:40 - Room L-203

NOI-04-010. Spherical nearfield acoustical holography with intercepting target spheres Machetta, Igor; Nijman, Eugene J. M.
S.03 Tuesday 4th - 15:00 - Room L-203

NOI-04-011. Assessment of impulse noise reduction from earmuff complex transmittance Mlynski, Rafal; Zera, Jan S.03 Tuesday 4th - 15:20 - Room L-203

NOI-04-012. Why and how to determine peak workplace noise pressure measurement uncertainty

S.03 Tuesday 4th - 15:40 - Room L-203

Rudno-Rudzinski, Krzysztof

NOI-04-013. Noise propagation of high-rise buildings in urban area Shimizu, Takafumi; Takahashi, Daiji S.03 Tuesday 4th - 16:00 - Room L-203

NOI-04-014. Noise exposure and speech intelligibility in elementary schools in Tuscany Sisto, Renata, Pieroni, Aldo, Delucis, Cinzia S.03 Tuesday 4th - 16:20 - Room L-203 NOI-04-015. Application of auditory brainstem response for predicting hearing protector attenuation Zera, Jan; Kochanek, Krzysztof; Pilka, Adam; Mlynski, Rafal S.03 Tuesday 4th - 16:40 - Room L-203 NOI-04-016. Study on acoustic performance evaluation of edge-modified noise barriers Namikawa, Yoshiharu; Yoshinaga, Hiroshi; Yamamoto, Yuichiro Poster - Wenesday 5th morning - Board 18 Experimental determination of sampling road noise measurement uncertainty NOI-04-017. Rudno-Rudzinska, Barbara Poster - Wenesday 5th morning - Board 19 NOI-05 - Outdoor sound propagation Session Organizer: Michel Berengier NOI-05-001-IP. Model experiments on shock wave interaction with the ground Attenborough, Keith; Qin, Qin S.07 Thursday 6th - 15:00 - Room L-203 NOI-05-002-IP. Ground effect calculations for micro structured terrain Heutschi, Kurt S.07 Thursday 6th - 15:20 - Room L-203 NOI-05-003-IP. A Benchmark on analytical and numerical models for road traffic noise propagation Bérengier, Michel; Duhamel, Denis; Gauvreau, Benoît; Droste, Bettina; Auerbach, Markus S.07 Thursday 6th - 15:40 - Room L-203 NOI-05-004-IP. Numerical simulation on long range outdoor sound propagation over non-flat terrains by the coupled FDTD-PE method Takatoshi, Yokota; Koichi, Makino; Yoshihiro, Hirao; Kohei, Yamamoto S.07 Thursday 6th - 16:00 - Room L-203 NOI-05-005-IP. Sound propagation in a valley-slope configuration: Measurements and simulations Van Renterghem, Timothy; Botteldooren, Dick; Lercher, Peter S.07 Thursday 6th - 16:20 - Room L-203 NOI-05-006-IP. Meteorological classification for environmental acoustics - practical implications due to experimental accuracy and uncertainty Junker, Fabrice; Gauvreau, Benoit; Ecotière, David; Crémézi-Charlet, Cora; Blanc-Benon, Philippe S.07 Thursday 6th - 16:40 - Room L-203 NOI-05-007-IP. Temporal fluctuation of atmospheric absorption of sound in various world regions during a year Yoshihisa, Koichi; Okada, Yasuaki; Tatsuda, Kenji ; Iwase, Teruo S.07 Thursday 6th - 17:00 - Room L-203 NOI-05-008-IP. Computational study of sound propagation over undulating water Salomons, Erik S.07 Thursday 6th - 17:20 - Room L-203 NOI-05-009. Effect of the snow cover on near-ground sound wave propagation in the atmosphere Krasnenko, Nikolay; Rakov, Denis S.07 Thursday 6th - 17:40 - Room L-203 NOI-05-010. Propagation of aircraft sonic boom through real atmospheres Kästner, Martina; Heimann, Dietrich

Poster - Wenesday 5th morning - Board 20

NOI-06 - Railway Noise

Session Organizer: Pierre-Etienne Gautier

NOI-06-001-IP. Acoustic sources characterisation on railway vehicle for prediction and audio synthesis

of pass-by noise

Bongini Estelle, Molla Stephane, Gautier Pierre-Etienne, Habault Dominique, Mattei Pierre-Olivier,

Poisson Franck

S.01 Monday 3rd - 15:00 - Room L-203

NOI-06-002-IP. High speed train noise propagation at mid-ranges

Cotté, Benjamin; Blanc-Benon, Philippe; Cremezi-Charlet, Cora; Poisson, Franck

S.01 Monday 3rd - 15:20 - Room L-203

NOI-06-003-IP. High speed trains external noise:recent results in the TGV case

Gautier, Pierre-Etienne; Poisson, Franck; Létourneaux, Fabien

S.01 Monday 3rd - 15:40 - Room L-203

NOI-06-004-IP. Psychomechanics applied to a plate/cavity system and train coaches

Guibert, Emmanuelle; Habault, Dominique; Gautier, Pierre-Etienne; Poisson, Franck

S.01 Monday 3rd - 16:00 - Room L-203

NOI-06-005-IP. The reduction of railway noise in the European integrated project Silence

Poisson Franck; Gautier Pierre-Etienne S.01 Monday 3rd - 16:20 - Room L-203

NOI-06-006-IP. Sensitive structures subject to ground vibrations

Sagaseta, César; Sánchez-Alciturri, José M. S.01 Monday 3rd - 16:40 - Room L-203

NOI-06-007. Experimental characterization and numerical modelling of the squeal noise generated

by railway disc brakes

Chiello, Olivier; Lorang, Xavier; Cordier, Jean-François; Margiocchi, Florence

S.01 Monday 3rd - 17:00 - Room L-203

NOI-06-008. Noise mapping for railway noise: Assessment of Nmpb method as implemented

in different software, comparison with Rmr method Tellado Nagore; Gautier Pierre-Etienne; Poisson Franck;

Pinagui Stephanie

S.01 Monday 3rd - 17:20 - Room L-203

NOI-06-009. Noise and vibration measurements of curve squeal noise due to trams on the track

Volz, Rudi; Feldmann, Joachim

S.01 Monday 3rd - 17:40 - Room L-203

NOI-07 - NOI-General

NOI-07-001. Dynamic urban traffic noise: do indivualized emission laws improve estimation?

Can, Arnaud; Leclercq, Ludovic; Lelong, Joël S.06 Thursday 6th - 10:40 - Room L-203

NOI-07-002. A Proposed Acoustical Standard for Correctional Facility Housing Units

Christoff, Jerry P.

S.06 Thursday 6th - 11:00 - Room L-203

NOI-07-003. Method of quantification of the subjective satisfaction by the increase of the house

value before the attenuation/elimination of the transit noise in the great arteries due

to performances of urban rehabilitation in Barcelona

Daumal, Francesc; De Gortari, Jimena S.06 Thursday 6th - 11:20 - Room L-203

NOI-07-004. Karaoke: Another 2 edges acoustic source

Elizondo-Garza, Fernando J.; Villalobos-Luna, José de Jesús

S.06 Thursday 6th - 11:40 - Room L-203

NOI-07-005.	Noisy audio sources separation by independent component analysis and modal distribution Lamya Fergani; Amrane Houacine S.08 Friday 7th - 09:00 - Room L-203
NOI-07-006.	Optimal step size of frequency domain adaptive algorithm for active noise control systems using simultaneous equations method Kensaku, Fujii; Yusuke, Iwamatsu; Tadashi, Ujino; Mitsuji, Muneyasu S.08 Friday 7th - 09:20 - Room L-203
NOI-07-007.	The integral fight against the urban noise. performances in the city of Leon (Spain) E. García Ortiz, M. Fuentes Robles, J. Cepeda Riaño, G. Búrdalo Salcedo, M. de Barrios Carro, D. García de la Peña S.08 Friday 7th - 09:40 - Room L-203
NOI-07-008.	Screen use possibilities as protection from transport noise and prospects of their improvement Danielius Gu_as; Robertas Klimas; Vaclovas Tri_ys S.08 Friday 7th - 10:00 - Room L-203
NOI-07-009.	Development of a social survey method on traffic noise using the Internet and the geographic information system (GIS) Jiro Kaku, Takatoshi Yokota, Seiichiro Namba, Seigou Ogata, and Ichiro Yamada S.08 Friday 7th - 10:20 - Room L-203
NOI-07-010.	A study of sound shielding efficiency of ear muffs combined with piezoelectric polymer films Kodama, Hidekazu; Date, Munehiro; Yamamoto, Kohei; Fukada, Eiichi S.08 Friday 7th - 10:40 - Room L-203
NOI-07-011.	The assessment of noise nuisance in the neighbourhood — ÖAL guideline No. 3 Part 1 Lechner, Christoph; Talasch, Werner S.08 Friday 7th - 11:00 - Room L-203
NOI-07-012.	Assessment of occupational noise exposure in quarries and gravel pits within the Madrid region Pavón, Ignacio; Recuero, Manuel S.08 Friday 7th - 11:20 - Room L-203
NOI-07-013.	Approximate reconstruction of sound fields close to the surface of arbitrarily shaped sound sources using NAH Prager, Jens; Petersson, Bjoern A.T. S.08 Friday 7th - 11:40 - Room L-203
NOI-07-014.	QCITY — A concept for noise mapping, ranking, hot spot detection and action planning Probst, Wolfgang S.06 Thursday 6th - 11:00 - Room L-202
NOI-07-015.	Many laws and little noise in the local agenda policy and management of the environment and urban noise (Venezuela) Ferrer, Mercedes; Quintero, Carolina S.06 Thursday 6th - 11:20 - Room L-202
NOI-07-016.	Reduction of annoyance by masking with a steady or fluctuating sound Tamesue, Takahiro; Saeki Tetsuro; Itoh, Kazunori S.06 Thursday 6th - 11:40 - Room L-202
NOI-07-017.	A suggestion of noise reduction wall with acoustic Fresnel lens and active noise control system Ishii, Hiroaki; Nakayama, Masato; Nishiura, Takanobu; Nakagawa, Shinichi Poster - Wenesday 5th morning - Board 21
NOI-07-018.	Characterization of the noise emitted by trolley buses and development of a noise emission model Lelong, Joel; Chatagnon, Roger Poster - Wenesday 5th morning - Board 22

PHY - Physical Acoustics

PHY-02 - Acoustics of porous media

Session Organizer: Tomás E. Gómez Álvarez-Arenas

PHY-02-001. Comparison of different inversion techniques for determining physical parameters of porous media

Bonfiglio, Paolo; Pompoli, Francesco S.01 Monday 3rd - 16:00 - Room R-202

PHY-02-002. Influence of the acoustical properties of materials on the performance of earplug protectors

for impulsive noise

Vergara, Erasmo F.; Gerges, Samir N. Y. S.01 Monday 3rd - 16:20 - Room R-202

PHY-02-003. Effect of screens on absorbent systems

Nesrine Amirouche; Emmanuel Gourdon , François-Xavier Bécot

S.01 Monday 3rd - 16:40 - Room R-202

PHY-02-004. Study of acoustic properties of cork compact

Kellati, Nor-edine; El Bouardi, Abdelmajid; Ajzoul, Taïb; Ezbakhe, Hassan

Poster - Wenesday 5th morning - Board 23

PHY-02-005. Study and design of a composite acoustic sensor to characterize an heterogeneous media

presenting a complex matrix

Georges Nassar, Alain Skaf, Fabrice Lefebvre, Bertrand Nongaillard

Poster - Wenesday 5th morning - Board 24

PHY-03 - Acoustics of unconsolidated granular media

Session Organizer: Vitalyi Goussev

PHY-03-001-IP. Mechanical energy propagation in granular alignments: Basic physics and potential applications

Sen, Surajit

S.01 Monday 3rd - 17:00 - Room R-202

PHY-03-002-IP. Ultrasonic wave transport in phononic crystal and disordered mesostructures made

from weakly consolidated aluminum beads

Page, John; Hu, Hefei

S.01 Monday 3rd - 17:20 - Room R-202

PHY-03-003-IP. Time-Frequency analysis of dispersion relation in a constrained triangular lattice of beads

Coste, Christophe; Gilles, Bruno S.01 Monday 3rd - 17:40 - Room R-202

PHY-03-004-IP. Nonlinear coda-type acoustic signals in granular media

Tournat, Vincent; Gusev, Vitalyi

S.02 Tuesday 4th - 09:00 - Room R-202

PHY-03-005-IP. Sound propagation in dense granular packings and its implication to seismology

Jia Xiaoping, Johnson Paul A

S.02 Tuesday 4th - 09:20 - Room R-202

PHY-03-006-IP. Nonlinear acoustic precursors of avalanche-type events in granular packing:

laboratory demonstrations

V.Yu. Zaitsev, P. Richard, R. Delannay, V. Tournat, V.E. Gusev

S.02 Tuesday 4th - 09:40 - Room R-202

PHY-03-007-IP. Surface elastic waves in granular media under gravity and their relation to booming avalanches

Bruno Andreotti

S.02 Tuesday 4th - 10:00 - Room R-202

PHY-03-008-IP. Experimental determination of the phase velocities of guided acoustic modes in granular media

X. Jacob, P. Leclaire, V. Aleshin, V. Tournat, O. Dazel, W. Lauriks, J. F. Allard, V. Gusev

S.02 Tuesday 4th - 10:20 - Room R-202

PHY-03-009-IP. Evaluation of the mechanical properties of granular media at low pressures

Jacob, Xavier; Tournat, Vincent; Aleshin, Vladislav; Gusev, Vitali

S.02 Tuesday 4th - 10:40 - Room R-202

PHY-03-010-IP. Acoustic modes induced by force chains in granular lattices

Inserra, Claude ; Tournat, Vincent ; Gusev, Vitalyi S.02 Tuesday 4th - 11:00 - Room R-202

PHY-03-011. Guiding of acoustic waves beneath the surface of an unconsolidated granular crystal

Gusev, Vitalyi; Tournat, Vincent

S.02 Tuesday 4th - 11:20 - Room R-202

PHY-03-012. New semi-empirical model for sound propagation in adsorbing microporous solids (activated carbon)

Bechwati, Fouad; Umnova, Olga; Cox, Trevor J. S.02 Tuesday 4th - 11:40 - Room R-202

PHY-04 - Adaptive and active materials

Session Organizers: Marie-Annick Galland; María Cuesta

PHY-04-001-IP. Component mode synthesis finite element model of a smart

double-plate panel

Batifol, Cedric; Ichchou, Mohamed; Galland, Marie-Annick

S.03 Tuesday 4th - 16:40 - Room R-202

PHY-04-002-IP. Numerical analysis of smart foam for acoustic absorption

Leroy, Pierre; Berry, Alain; Atalla, Noureddine; Herzog, Philippe

S.03 Tuesday 4th - 17:00 - Room R-202

PHY-04-003-IP. Modelling of poroelastic layers with mass implants improving acoustic absorption

Zielinski, Tomasz G.

S.03 Tuesday 4th - 17:20 - Room R-202

PHY-04-004. Photoelastic properties of nontransparent crystals

Farkhad, Akhmedzhanov

S.03 Tuesday 4th - 17:40 - Room R-202

PHY-04-005-IP. Reduction of the noise transmitted by an enclosure thanks to active absorbers

Dupont, Jean-Baptiste; Galland, Marie-Annick

S.04 Wednesday 5th - 09:00 - Room R-202

PHY-04-006-IP. Control of low-frequency wall reflections in an anechoic room: estimation of the scattered sound

from wall measurements

Gintz, Alexandre; Friot, Emmanuel

S.04 Wednesday 5th - 09:20 - Room R-202

PHY-04-007-IP. Direct assessment of acoustic quantities within active materials

Lissek, Hervé

S.04 Wednesday 5th - 09:40 - Room R-202

PHY-04-008-IP. A new reverberation enhancement system – Carmencita

Schmich, Isabelle; Chervin Paul; Maillard, Julien; Rougier, Christophe

S.04 Wednesday 5th - 10:00 - Room R-202

PHY-05 – Aeroacoustic sensing for urban warfare applications

Session Organizer: Tien Pham

PHY-05-001-IP. Acoustic sensing for urban battlefield applications

Pham, Tien

S.03 Tuesday 4th - 15:00 - Room R-202

PHY-05-002-IP. Acoustic Detection and Localization for Defense and Security Applications

Naz, Pierre; Hengy, Sébastien; Hamery, Pascal; Marty, Christophe

S.03 Tuesday 4th - 15:20 - Room R-202

PHY-05-003-IP. Performance Metrics for Acoustic Small Arms Localization Systems

Bédard, Jacques

S.03 Tuesday 4th - 15:40 - Room R-202

PHY-05-004-IP. A Biomimetic Acoustic Direction Finding System

Hubbard, Allyn; Anderson, David; Chiu, Matt; Freedman, David; Gore, N.; Karl, Christian; Mountain, David;

Nourzad, Marianne; Pu, Yirong; Aleksandrs Zosuls; Socrates, Deligeorges

S.03 Tuesday 4th - 16:00 - Room R-202

PHY-05-005. Infrasonic precursor of tropical cyclone

Naugolnykh, Konstantin; Rybak, Samuil S.03 Tuesday 4th - 16:20 - Room R-202

PHY-06 — Dispersion and attenuation of sound in various materials

PHY-06-001. A self-consistent effective medium theory for the sound propagation in concentrated suspensions

of rigid particles

Baudoin, Michael; Thomas, Jean-Louis; Coulouvrat, François; Lhuillier, Daniel

S.04 Wednesday 5th - 10:20 - Room R-202

PHY-06-002. Measure in tube of impedance of different types of wood

M. Teresa Lorenzana Lorenzana; J. Canedo Monasterio; L. García Sastre; J. González Suárez

S.04 Wednesday 5th - 10:40 - Room R-202

PHY-06-003. Ultrasonic attenuation and piezoelectric properties at phase transitions of layered polar crystals

OF CuInP₂S₆ family

Samulionis, Vytautas; Banys, Juras and Vysochanskii, Yulian

S.04 Wednesday 5th - 11:00 - Room R-202

PHY-06-004. Acoustical Dissipation in Thallous Halides

R.K. Singh, Rishipal Singh, M. P. Singh

S.04 Wednesday 5th - 11:20 - Room R-202

PHY-06-005. Coherent wave in a fluid slab-like region containing a random distribution of elastic scatterers: Experiments

Tinel, Alain; Luppé, Francine; Conoir, Jean-Marc

S.04 Wednesday 5th - 11:40 - Room R-202

PHY-06-006. Visualizing sound travelling through periodic structures

Wright, Oliver, Profunser, Dieter, Matsuda, Osamu; Khelif, Abdelkrim; Laude, Vincent; Benchabane, Sarah;

Tanaka, Yukihiro

S.05 Wednesday 5th - 15:00 - Room R-202

PHY-06-007. Analysis of acoustic fields in elastic media with microdefects by using laser interferometry

Zhitluhina, Julia; Perov, Dmitry; Rinkevich, Anatoly

S.05 Wednesday 5th - 15:20 - Room R-202

PHY-06-008. Analysis of guided acoustic waves in piezoelectric semiconductor plates

Collet, Bernard

Poster - Wenesday 5th morning - Board 25

PHY-06-009. The use of Ultrasonic Signals to Estimate the Damage Condition of Materials after Static

and Fatigue Loading

V.V. Mishakin

Poster - Wenesday 5th morning - Board 26

PHY-06-010. The Energy Characteristics of Acoustic Waves in Dissipative Piezoelectric Materials and Structures

Teplykh, Andrei; Zaitsev, Boris; Kuznetsova, Iren

Poster - Wenesday 5th morning - Board 27

PHY-06-011. Acousto-optic method development for the acoustic behaviour study of some materials metallic

and no metallic

Ferria Kouider; Laouar Naamane

Poster - Wenesday 5th morning - Board 28

PHY-06-012. Optimization of the acoustic attenuation of sonic crystals by means of the creation of vacancies Fuster-Garcia, Elies; Romero-García, Vicent; García Raffi, L.Miguel; Sánchez-Pérez, J.Vicente; Blasco, Xavier; Herrero, J.Manuel Poster - Wenesday 5th morning - Board 29 PHY-06-013. The broadband ultrasonic absorption in the water-based magnetic liquid as a function of the magnetic field strength Hornowski, Tomasz Poster - Wenesday 5th morning - Board 30 PHY-06-014. Refraction index behaviour of sonic crystals in the range of low frequencies Fuster-Garcia, Elies; Romero-García, Vicent; García Raffi, L.Miguel; Sánchez-Pérez, J.Vicente Poster - Wenesday 5th morning - Board 31 PHY-06-015. Control of noise using mixed structures based on sonic crystals Romero-García, Vicent; Fuster-Garcia, Elies; García Raffi, L.Miguel; Sánchez-Pérez, J.Vicente Poster - Wenesday 5th morning - Board 32 PHY-07 - Standing waves Session Organizers: Gerard Maze; Peter Rogers PHY-07-001-IP. Resonances, Rays, and Acoustic Beams: Applications to Scatteri Marston, Philip L. S.05 Wednesday 5th - 15:40 - Room 202 PHY-07-002-IP. Resonance modes of immersed type I and type II transversely isotropic clad rods Sodagar, Sina; Honarvar, Farhang; Sinclair, Anthony N. S.05 Wednesday 5th - 16:60 - Room 202 PHY-07-003-IP. Resonance scattering from a ribbed finite cylindrical shell Tran-Van-Nhieu, Michel S.05 Wednesday 5th - 16:20 - Room 202 PHY-07-004-IP. A few exemples of resonances ion multiple scattering Conoir, Jean-Marc S.05 Wednesday 5th - 16:40 - Room 202 PHY-07-005-IP. Classification of an object buried in sand by an acoustic resonance spectrum method Gérard Maze, Dominique Decultot, Katia Cacheleux, S.05 Wednesday 5th - 17:00 - Room 202 PHY-07-006-IP. Edge resonances in semi-infinite thick pipe: theoretical predictions and measurements Ratassepp, Madis; Klauson, Aleksander; Chati, Farid; Léon, Fernand; Maze, Gérard S.05 Wednesday 5th - 17:20 - Room 202 PHY-07-007-IP. Three-dimensional edge waves in semi-infinite elastic plates Kaplunov, Julius; Prikazchikov, Danila; Zernov, Victor S.05 Wednesday 5th - 17:40 - Room 202 PHY-07-008. Experimental identification of very low frequency flexural vibration modes of partly submerged plate Décultot, Dominique; Chati, Farid; Maze. Gérard; Klauson, Aleksander S.06 Thursday 6th - 09:00 - Room R-202 PHY-07-009. Transmission of radial waves through an helical spring E. Rosenkrantz, J.Y. Ferrandis, J. Mathieu and G. Lévêque S.06 Thursday 6th - 09:20 - Room R-202 PHY-07-010. Intensity measurement of a periodic shock wave in a resonator Biwa, Tetsushi; Yazaki, Taichi

S.06 Thursday 6th - 09:40 - Room R-202

PHY-07-011. Astride localization in cavities filled with an irregular absorber Félix, Simon; Sapoval, Bernard; Filoche, Marcel; Asch, Mark S.06 Thursday 6th - 10:00 - Room R-202

PHY-07-012. Proposal an empirical model for absorbent acoustical materials based in kenaf del Rey Tormos, Romina; Alba Fernández, Jesús; Sanchos, Vicente

Poster - Wenesday 5th morning - Board 33

PHY-08 - PHY-General

PHY-08-001. Sound Attenuation in Ducts Utilizing Spatially Periodic Area Changes with Absorbing Material Bliss, Donald; Franzoni, Linda; Burton, Lisa
S.06 Thursday 6th - 10:20 - Room R-202

PHY-08-002. A noniterative linear method for locating sources based on measuring receiver arrival times Militello, Carmelo; Buenafuente, Sergio S.06 Thursday 6th - 10:40 - Room R-202

PHY-08-003. Enhanced acoustical transmission through a subwavelength aperture flanked by surface corrugations

Christensen, Johan; Garcia-Vidal, Francisco Jose

S.06 Thursday 6th - 11:00 - Room R-202

PHY-08-004. Experimental wave number separation of wall-pressure fluctuations beneath a Turbulent Boundary Layer

Debert, Sébastien; Pachebat, Marc; Valeau, Vincent; Gervais, Yves

S.06 Thursday 6th - 11:20 - Room R-202

PHY-08-005. Acoustic and hydrodynamic modes generated by a point source in a duct carrying

a parallel shear flow

Félix, Simon ; Pagneux, Vincent

S.06 Thursday 6th - 11:40 - Room R-202

PHY-08-006. Acoustic field modelling in a quasi-spherical resonator for the determination

of the Boltzmann constant

Guianvarc'h, Cécile; Pitre, Laurent; Bruneau, Michel; Bruneau, Anne-Marie

S.07 Thursday 6th - 15:00 - Room R-202

PHY-08-007. Sound absorption by an active resonator in a tube and in an enclosure

Kanev, Nikolay; Mironov, Mikhail

S.07 Thursday 6th - 15:20 - Room R-202

PHY-08-008. Linear waves in bubbly liquid and equilibrium bubble size distribution

Kovinskaya, Svetlana

S.07 Thursday 6th - 15:40 - Room R-202

PHY-08-009. Dynamic spectral analysis of the ir heterolaser radiation change under ultrasonic strain

Kulakova, Ludmila; Tarasov, Ilya; Yakhkind, Eduard

S.07 Thursday 6th - 16:00 - Room R-202

PHY-08-010. New method for the calculation of the thermodynamical properties of fluids starting from accurate

speed of sound measurements

Lago, Simona; Giuliano Albo, Alberto; Madonna Ripa, Daniele

S.07 Thursday 6th - 16:20 - Room R-202

PHY-08-011. Acoustic properties of thin-walled elastic tube, containing polymeric liquid with fine bubbles

Levitsky, Semyon; Bergman, Rudolf; Haddad, Jehuda

S.07 Thursday 6th - 16:40 - Room R-202

PHY-08-012. Ultrasonic investigations of water mixtures with polyethylene glycols, from 200 to 1540

and ethylene glycol

Wioletta Zwirbla, Anna Sikorska, Bogumil, B.J. Linde

S.07 Thursday 6th - 17:00 - Room R-202

PHY-08-013. Attenuation of Eigen modes in wells and pipes due to their scattering on the rough inner surface Maximov, German; Horoshenkov, Kirill; Ortega, Elina; Podjachev, Evgeny; Rybak, Samuil S.07 Thursday 6th - 17:20 - Room R-202 PHY-08-014. Nondiffractive propagation in sonic crystals Espinosa, Víctor, Sánchez Morcillo, Víctor J., Pérez-Arjona, Isabel, Staliunas, Kestutis; Redondo, Javier S.07 Thursday 6th - 17:40 - Room R-202 PHY-08-015. Application of Phase Adjuster for Improvement in the Efficiency of Energy Conversion from Heat to Sound in Thermoacoustic System Sakamoto, Shin-ichi; Nishikawa, Masahiro; Ishino, Takahiro; Watanabe, Yoshiaki S.08 Friday 7th - 09:00 - Room R-202 PHY-08-016. Application of photoacoustic technique for detecting associated structures in dioxane-water solution Sikorska, Anna; Bogumil, Linde; Sliwinski, Antoni S.08 Friday 7th - 09:20 - Room R-202 PHY-08-017. Acoustic radiation force: a unique tool for elasticity imaging and HIFU therapy in the domain of MRI and Ultrasound Sinkus, Ralph; Mickael Tanter, Jean-Francois Aubry, Jean-Luc Gennisson, Mathias Fink S.08 Friday 7th - 09:40 - Room R-202 PHY-08-018. Different Zakharenko waves in layered and quantum systems A.A. Zakharenko S.08 Friday 7th - 10:00 - Room R-202 PHY-08-019. Application possibilities of the artificial intelligence elements for recognizing the acoustic emission signals generated by partial discharges Sebastian Borucki, Andrzej Cicho, Marcin Lorenc, Tomasz Boczar S.08 Friday 7th - 10:20 - Room R-202 PHY-08-020. Optimization of the acoustic attenuation of Sonic Crystals by means of the creation of vacancies Sánchez Pérez, Juan Vicente; Romero-García, Vicent; Fuster-Garcia, Elies; García-Raffi, Luis Miguel S.08 Friday 7th - 10:40 - Room R-202 PHY-08-021-IP. New class of surface acoustic waves in the unmagnetic dielectric Lapteva Tetyana, Tarasenko S.V., Shavrov V.G. S.08 Friday 7th - 11:00 - Room R-202 PHY-08-022. The sound wave reflection from the corrugated plane streamed by the parallel shear flow (generalized Miles mechanism) Solntseva, Vasilisa; Mironov, Mikhail; Kopiev, Victor S.08 Friday 7th - 11:20 - Room R-202 PHY-08-023. The comparison of the calibration method of measurement paths used in acoustic diagnostics of insulation systems Marcin Lorenc; Tomasz Boczar; Sebastain Borucki; Andrzej Cichon S.08 Friday 7th - 11:40 - Room R-202 PHY-08-024. The negative acoustic refraction of 1D magnetic phononic crystal Tarasenko, Olga; Tarasenko, S.V.; Yurchenko, V.M. S.08 Friday 7th - 09:00 - Room R-101 PHY-08-025. Applications of Directional Acoustics Technique Yangze Dong, Peng Sun, Pingxiang Liu Poster - Wenesday 5th morning - Board 34 PHY-08-026. Improving energy conversion efficiency in a thermoacoustic cooling system ~ Property of energy conversion placing high heat conductivity material on top of the stack adjacent areas of the heat source ~ Miya, Naoki; Sakamoto, Shin-ichi; Kondo, Masahiro; Watanabe, Yoshiaki Poster - Wenesday 5th morning - Board 35

PHY-08-027. The acoustic pulse signal diffraction on different reflectors in an elastic medium

Perov, Dmitry; Rinkevich, Anatoly

Poster - Wenesday 5th morning - Board 36

PHY-08-028. Basic study for the miniaturization of thermoacoustic cooler ~ Determination of an insertion position

and channel radius of the stack ~

Tsuji, Yoshiyuki; Sakamoto, Shin-ichi; Ishino, Takahiro; Watanabe, Yoshiaki

Poster - Wenesday 5th afternoon - Board 01

PHY-08-029. Basic study for the miniaturization of thermoacoustic cooling system \sim Relationship between ΩT

and total length ~

Wakata, Tetsuya; Sakamoto, Shin-ichi; Nishikawa, Masahiro; Watanabe, Yoshiaki

Poster - Wenesday 5th afternoon - Board 02

PPA - Physiological and Psychological Acoustics

PPA-01 - Algorithmic music analysis and processing

Session Organizer: Martin Mc Kinney

PPA-01-001-IP. Optimizing Hearing Aids for Music Listening

Wessel, David; Fitz, Kelly; Battenberg, Eric; Schmeder, Andrew; Edwards, Brent

S.01 Monday 3rd - 16:40 - Room L-402

PPA-01-002-IP. Perceptual Constraints for Music Information Retrieval Systems

McKinney, Martin F.; Skowronek, Janto; Novello, Alberto

S.01 Monday 3rd - 17:00 - Room L-402

PPA-01-003-IP. Towards polyphonic musical instruments recognition

Richard, Gaël; Leveau, Pierre; Daudet, Laurent; Essid, Slim; David, Bertrand

S.01 Monday 3rd - 17:20 - Room L-402

PPA-01-004. Tools for Analysis of Musical Expression

Dixon, Simon

S.01 Monday 3rd - 17:40 - Room L-402

PPA-02 - Applications of psychoacoustics

Session Organizers: Hugo Fastl; Alfred Zeitler

PPA-02-001-IP. Master Scaling in Psychoacoustics

Berglund, Birgitta; Nilsson, Mats E. S.03 Tuesday 4th - 15:00 - Room L-401

PPA-02-002-IP. Dissimilarity ratings of in-car sounds: comparison between in-situ

and laboratory experiments

Parizet, Etienne; Langlois, Sabine; Richard, Florent

S.03 Tuesday 4th - 15:20 - Room L-401

PPA-02-003-IP. How does annoyance judgement depend on the context effect?

Anna Preis, Honorata Hafke, Tomasz Kaczmarek

S.03 Tuesday 4th - 15:40 - Room L-401

PPA-02-004-IP. The functional imagery and sound quality of auditory signals

Iwamiya, Shin-ichiro; Fujita, Aiko; Taguchi, Manabu

S.03 Tuesday 4th - 16:00 - Room L-401

PPA-02-005-IP. Nonmonotonic behaviour of psychoacoustic unpleasantness as a function of sharpness

Weber, Reinhard; Eilers, Reef

S.03 Tuesday 4th - 16:20 - Room L-401

PPA-02-006-IP. Just noticeable sound differences in cars - results of psychoacoustic testing based

on an ASD-system

Martner, Otto; Schirmacher, Rolf; Zerbs, Carsten; Simon, Laura

S.03 Tuesday 4th - 16:40 - Room L-401

PPA-02-007-IP. Slow sinusoidal phase rotation as a carrier for embedding watermarks in audio signals Suzuki, Yôiti; Nishimura, Ryouichi; and SEk, Aleksander S.03 Tuesday 4th - 17:00 - Room L-401 PPA-02-008-IP. Spatial psychoacoustics as the basis for innovations in the field of audio coding and processing Jeroen Breebaart, Armin Kohlrausch, Steven van de Par S.03 Tuesday 4th - 17:20 - Room L-401 PPA-02-009-IP. Generation of Quality Taxonomies for Auditory Virtual Environments by Means of a Systematic Expert Survey Andreas Silzle S.03 Tuesday 4th - 17:40 - Room L-401 PPA-02-010-IP. Auditory scene analysis and the precedence-effect with cochlear implants-prediction from simulation Seeber, Bernhard U. S.04 Wednesday 5th - 09:00 - Room L-401 PPA-02-011-IP. Psychoacoustic evaluation of sound absorbing road surfaces Fastl, Hugo; Patsouras, Christine; Bayer, Stephan; Beckenbauer, Thomas S.04 Wednesday 5th - 09:20 - Room L-401 PPA-02-012-IP. Psychacoustical Evaluation of Traffic Noise Genuit, Klaus; Guidati, Sandro; Rossberg, Sebastian S.04 Wednesday 5th - 09:40 - Room L-401 PPA-02-013-IP. Psychoacoustic predictive modeling of traffic sound Bisping, Rudolf S.04 Wednesday 5th - 10:00 - Room L-401 PPA-02-014-IP. Sound quality of railway noise with and without barrier - A laboratory study Khan, Shafiquzzaman S.04 Wednesday 5th - 10:20 - Room L-401 PPA-02-015-IP. Application of vibro-acoustic and psychoacoustic protocols for the evaluation of interior noise in the aircraft cabin Mellert, Volker; Weber, Reinhard S.04 Wednesday 5th - 10:40 - Room L-401 PPA-02-016. Development of local sound resources to introduce the concept of soundscape Kang, Sang-Woo; Jeon, Ji-hyeon; Kook, Chan S.04 Wednesday 5th - 11:00 - Room L-401 PPA-02-017. Improvement of the working place through psychoacoustic assessment of the noise emitted by the machines Fernández, Marcos D.; Recuero, Manuel; Ballesteros, Jose A.; Blas, Jose M. S.04 Wednesday 5th - 11:20 - Room L-401 PPA-02-018. Evaluation of the SAFRS application to create environmental friendly acoustic environment Jeon, Ji-hyeon; Kook, Chan; Jang, Gil-Soo S.04 Wednesday 5th - 11:40 - Room L-401 PPA-02-019. Auditory evaluation of sounds radiated from a vibrating plate inside a damped cavity: Adjustment of the computational efforts in frequency Trollé, Arnaud; Hamzaoui, Nacer; Marquis-Favre, Catherine S.05 Wednesday 5th - 15:00 - Room L-401 PPA-02-020. Car door closure sounds: characterization of perceptual properties through analysis-synthesis approach Bézat, Marie-Céline; Roussarie, Vincent; Voinier, Thierry; Kronland-Martinet, Richard; Ystad Sølvi S.05 Wednesday 5th - 15:20 - Room L-401 PPA-02-021. Design of product sound by blending of sound sources Nykänen, Arne; Johansson, Örjan S.05 Wednesday 5th - 15:40 - Room L-401

PPA-02-022. Acoustic Signature of Hard, Crispy, Crackly, Crunchy and Snappy Reynaud, Boris; Antille, Nicolas; Voirol-Baliguet, Elisabeth; Martin, Nathalie S.05 Wednesday 5th - 16:00 - Room L-401 PPA-02-023. Just noticealbe difference of sound quality metrics of refrigerator noise You, Jin; Jeon, Jin Yong S.05 Wednesday 5th - 16:20 - Room L-401 PPA-02-024. Evaluation of human emotions depending on variations in audio-visual landscape Shin Yong-Gyu, Jeon Ji-Hyeon, Kook Chan, Kim Sun-Woo S.05 Wednesday 5th - 16:40 - Room L-401 PPA-02-025. A study on the degree of disturbance by meaningful and meaningless noise under the brain task Tsujimura, Sohei; Yamada, Yukiko S.05 Wednesday 5th - 17:00 - Room L-401 PPA-02-026. Perceptual consequences of change in vocoded speech parameters for various reverberation conditions Drgas, Szymon; Blaszak, Magdalena S.05 Wednesday 5th - 17:20 - Room L-401 An Attempt to Construct a Quantitative Scale of the Cheerfulness of Music Implementing PPA-02-027. Spectral Centroid Masashi Yamada S.05 Wednesday 5th - 17:40 - Room L-401 PPA-02-028. An efficient alternative to the paired comparison method for the subjective evaluation of a large set of sounds Chevret, Patrick; Parizet, Etienne S.06 Thursday 6th - 09:00 - Room L-401 PPA-02-029. Enhancing Perceived Sportiness of Vehicles by Means of Sound Engineering Alfred Zeitler S.06 Thursday 6th - 09:20 - Room L-401 PPA-02-030. Psychoacoustical indicators of acoustical comfort inside trains for background noise and emergent signals I. Boullet; G. Rabau; S. Meunier; F. Poisson Poster - Wenesday 5th afternoon - Board 03 Subjective evaluation of artifacts of various sound compressing systems PPA-02-031. Husník, Libor; Herrera-Martinez, Marcelo Poster - Wenesday 5th afternoon - Board 04 PPA-03 - Audio-visual interaction Session Organizer: Armin Kohlrausch PPA-03-001-IP. Auditory-visual perception of room size in virtual environments Larsson, Pontus; Väljamäe, Aleksander S.02 Tuesday 4th - 09:00 - Room L-402 PPA-03-002-IP. Effects of auditory and visual information on the perceived direction of self-motion Shuichi Sakamoto; Yôiti Suzuki; Jiro Gyoba S.02 Tuesday 4th - 09:20 - Room L-402 PPA-03-003. Audio-Visual Integration of Biological Motion Meyer, Georg; Crocker-Buque, Alexander, Wuerger, Sophie S.02 Tuesday 4th - 09:40 - Room L-402 PPA-03-004. Sound source localization in audiovisual productions Muñoz, Roberto; Recuero, Manuel

S.02 Tuesday 4th - 10:00 - Room L-402

PPA-03-005. Audiovisual interactions in the perception of space and time Alais, David; Burr, David, Carlile, Simon S.02 Tuesday 4th - 10:20 - Room L-402 PPA-03-006. Synchronization between Auditory and Visual Stimuli: The Effect of Distance from Observers to an Object Kohei Washikita; Takuya Takahashi; Masashi Yamada S.02 Tuesday 4th - 10:40 - Room L-402 PPA-03-007-IP. A systematic influence of stimulus type on audio-visual synchrony perception Kohlrausch, Armin ; van Eijk, Rob L.J.; van de Par, Steven; Juola, James F. S.02 Tuesday 4th - 11:00 - Room L-402 PPA-03-008-IP. Auditory-visual speech perception and intermodal asynchrony Tanaka, Akihiro; Sakamoto, Shuichi; Suzuki, Yô-iti; Tsumura, Komi S.02 Tuesday 4th - 11:20 - Room L-402 PPA-03-009. Asynchrony perception in audiovisual productions Muñoz, Roberto; Recuero, Manuel; San Martín, Gonzalo; Fuenzalida, Francisco S.02 Tuesday 4th - 11:40 - Room L-402 PPA-03-010-IP. Mid-level, feature based processing for audio-visual temporal synchrony perception Fujisaki, Waka; Nishida, Shin'ya S.03 Tuesday 4th - 15:00 - Room L-402 PPA-03-011-IP. Audio-visual interactions in dynamic scenes: implications for multisensory compression Väljamäe, Aleksander; Soto-Faraco, Salvador S.03 Tuesday 4th - 15:20 - Room L-402 PPA-03-012-IP. Ambiguity solving in visual event perception by auditory signals Watanabe, Katsumi S.03 Tuesday 4th - 15:40 - Room L-402 PPA-03-013-IP. Subjective congruence between motion picture and sound Iwamiya, Shin-ichiro S.03 Tuesday 4th - 16:00 - Room L-402 PPA-03-014. Multimodal approach of vibro-acoustic comfort in vehicles: Influence of visual context Amari, Maël; Parizet, Etienne; Roussarie, Vincent S.03 Tuesday 4th - 16:20 - Room L-402 PPA-03-015. Crossmodal binding: evaluating the 'unity assumption' using complex audiovisual stimuli Vatakis, Argiro; Spence, Charles Poster - Wenesday 5th afternoon - Board 05 PPA-04 - Audition of the sound source and its properties Session Organizer: Anna Preis PPA-04-001-IP. Perceiving looming sounds: the importance of auditory motion as a sound source property Neuhoff, John, G. S.01 Monday 3rd - 15:00 - Room L-402 PPA-04-002-IP. Road-vehicle simulation for psychoacoustic studies Kaczmarek, Tomasz S.01 Monday 3rd - 15:20 - Room L-402 PPA-04-003. Voice categorization using free sorting tasks Guastavino, Catherine; Belin, Pascal S.01 Monday 3rd - 15:40 - Room L-402 PPA-04-004. Effect of duration in the perception of pleasantness of sound Miralles, José Luis; Garrigues, José Vicente; Giménez, Alicia; Romero, José; Cibrián, Rosa; Cerdá, Salvador

S.01 Monday 3rd - 16:00 - Room L-402

PPA-04-005. Altering Cue Use in Complex Auditory Decision Tasks

Flint, Jesse; Pastore, Richard

S.01 Monday 3rd - 16:20 - Room L-402

PPA-04-006. Absolute threshold of hearing change by perceiving various previous sounds

Hasegawa, Hiroshi; Yoshida, Junji; Masao, Kasuga Poster - Wenesday 5th afternoon - Board 06

PPA-04-007. Application of the Geddes-Lee model for the subjective evaluation of sound emitted by loudspeakers

Cruañes Català, Joan; Francés Monllor, Jorge; Ramis Soriano, Jaime; Alba Fernández, Jesús

Poster - Wenesday 5th afternoon - Board 07

PPA-05 - Binaural hearing and spatial perception

Session Organizer: Jonas Braasch

PPA-05-001-IP. Modeling the precedence effect for percussive sounds with different attack transients

Jonas Braasch, Hari V. Savitala, Jens Blauert S.06 Thursday 6th - 09:40 - Room L-401

PPA-05-002-IP. Spatial effects on speech intelligibility

Colburn, H. Steven; Carr, Suzanne; Wan, Rui S.06 Thursday 6th - 10:00 - Room L-401

PPA-05-003-IP. A model of the head-related transfer function based on spectral cues

lida, Kazuhiro; Itoh, Motokuni; Itaqaki, Atsue; Morimoto, Masayuki

S.06 Thursday 6th - 10:20 - Room L-401

PPA-05-004-IP. A closer look at the representation of interaural differences in a binaural model

Nicolas Le Goff; Armin Kohlrausch; Jeroen Breebaart

S.06 Thursday 6th - 10:40 - Room L-401

PPA-05-005-IP. The duplex-theory of localization investigated under natural conditions

Seeber, Bernhard U.

S.06 Thursday 6th - 11:00 - Room L-401

PPA-05-006-IP. Lead-lag precedence paradigm as a function of relative level and number of lag stimuli

Yost, William A.

S.06 Thursday 6th - 11:20 - Room L-401

PPA-05-007. Perceptual Movement of Sounds Fed through Multiway Loudspeakers Set Up Perpendicularly

Agatsuma, Yu; Miyasaka, Eiichi

S.06 Thursday 6th - 11:40 - Room L-401

PPA-05-008. Perceptual distances from sound sources in the case of wearing hearing aids in a live sound space

Arai, Yasuhiko; Murashita, Shota

S.07 Thursday 6th - 15:00 - Room L-401

PPA-05-009. Computational Count-comparison models for ITD and ILD decoding

Pulkki, Ville; Hirvonen, Toni

S.07 Thursday 6th - 15:20 - Room L-401

PPA-05-010. A comparison of detection and lateralization of interaurally time-delayed signals in the presence

of diotic masking noise

Van de Par, Steven; Kohlrausch, Armin; Schimmel, Othmar

S.07 Thursday 6th - 15:40 - Room L-401

PPA-05-011. Comodulation masking release and interaural phases differences

Verhey, Jesko L.; Epp, Bastian

S.07 Thursday 6th - 16:00 - Room L-401

PPA-05-012. Binaural sound localisation by level distributions

Heavens, David; Pearce, Tim

Poster - Wenesday 5th afternoon - Board 08

PPA-05-013. Sound localization with scaled dummy-heads on a TeleHead

Tatsuya Hirahara; Hiroyuki Sagara; Makoto Otani Poster - Wenesday 5th afternoon - Board 09

PPA-05-014. Experiments on the utilization of space as a musical language resource

Miralles Bono, José Luis; Payri, Blas; Redondo, Javier; Picó, Rubén

Poster - Wenesday 5th afternoon - Board 10

PPA-05-015. Perceptual evaluation of HRTF notches versus peaks for vertical localisation

Greff, Raphaël; Katz, Brian F.G.

Poster - Wenesday 5th afternoon - Board 11

PPA-05-016. Lateralization of amplitude-modulated bone-conducted ultrasounds: discrimination of interaural time

and intensity differences and time-intensity trading

Hotehama, Takuya; Nakagawa, Seiji

Poster - Wenesday 5th afternoon - Board 12

PPA-05-017. Numerical study on source distance dependency of head-related transfer functions

Otani, Makoto; Hirahara, Tatsuya

Poster - Wenesday 5th afternoon - Board 13

PPA-06 - Binaural technology

Session Organizers: Michael Vorländer; Brian Katz

PPA-06-001-IP. Implementation and evaluation of a measurement procedure for the acoustical transfer

impedance of ear simulators

Fedtke, Thomas

S.07 Thursday 6th - 16:20 - Room L-401

PPA-06-002-IP. Ear Canal Impedances of Children and Adults - Investigations with Simulation

and Measurements

Fels, Janina; Paprotny, Jan; Feickert, Lars S.07 Thursday 6th - 16:40 - Room L-401

PPA-06-003-IP. The sound field in an ear canal occluded by a hearing aid

Stinson, Michael R.; Daigle, Gilles A. S.07 Thursday 6th - 17:00 - Room L-401

PPA-06-004-IP. Manikin for assessment of Mp3 player exposure

Hammershøi, Dorte

S.07 Thursday 6th - 17:20 - Room L-401

PPA-06-005-IP. A fast measurement system for the listener's own head-related impulse responses

Fukudome, Kimitoshi; Takenouchi Kazuki; Kashida Masato; Samejima, Toshiya; Ono, Naoki

S.07 Thursday 6th - 17:40 - Room L-401

PPA-06-006-IP. Simulating distance cues in virtual reverberant environments

Norbert Kopco, Scott Santarelli, Virginia Best, Barbara Shinn-Cunningham

S.08 Friday 7th - 09:00 - Room L-401

PPA-06-007-IP. High Fidelity Modeling And Experimental Evaluation Of Binaural Bone Conduction

Communication Devices

Walker, B. N.; Stanley, R. M.; Przekwas, A.; Tan, X.G.; Chen, Z.J.; Yang, H.W.

Wilkerson, P.; Harrand, V.; Chancey, C.; Houtsma, A.J.M.

S.08 Friday 7th - 09:20 - Room L-401

PPA-06-008-IP. Applications of binaural processing to automatic spech recognition

Richard M. Stern, Evandro Gouvea, Hyung-Min Park, Govindarajan Thattai

S.08 Friday 7th - 09:40 - Room L-401

PPA-06-009-IP. Round robin comparison of HRTF measurement systems: Preliminary results

Katz, Brian F.G.; Begault, Durand R.

S.08 Friday 7th - 10:00 - Room L-401

PPA-06-010-IP. Do we need new artificial heads?

Genuit, Klaus, Fiebig, André

S.08 Friday 7th - 10:20 - Room L-401

PPA-06-011. Development of selectable viewpoint and listening point system for musical performance

Kenta Niwa; Takanori Nishino; Kazuya Takeda Poster - Wenesday 5th afternoon - Board 14

PPA-07 — Computational models of the auditory system

Session Organizer: Enrique López-Poveda

PPA-07-001. Fluid motion in the Organ of Corti

Baumgart, Johannes; Grundmann, Roger S.01 Monday 3rd - 15:00 - Room L-401

PPA-07-002. Simulating cochlear frequency selectivity: the Trnl filter

López-Nájera, Alberto; Meddis, Ray; López-Poveda, Enrique Alejandro

S.01 Monday 3rd - 15:20 - Room L-401

PPA-07-003-IP. A computational auditory model with a nonlinear cochlea and acoustic scale normalization

Irino, Toshio; Walters, Tom C.; Patterson, Roy D.

S.01 Monday 3rd - 15:40 - Room L-401

PPA-07-004-IP. Computational modelling of the cat auditory periphery: recent developments and future directions

Bruce, Ian C.; Zilany, Muhammad S. A. S.01 Monday 3rd - 16:00 - Room L-401

PPA-07-005-IP. Computational models of brainstem neurons

Colburn, H. Steven; Zhou, Yi; Brughera, Andrew; Chung, Yoojin

S.01 Monday 3rd - 16:20 - Room L-401

PPA-07-006-IP. The representation of high-frequency spectral notches in the peripheral auditory system:

a computational model study

Lopez-Poveda, Enrique A.; Alves-Pinto, Ana; Palmer, Alan R.; Eustaquio-Martín, A.

S.01 Monday 3rd - 16:40 - Room L-401

PPA-07-007-IP. Absolute sensory threshold: a mathematical model

Lecluyse, Wendy; Meddis, Ray

S.01 Monday 3rd - 17:00 - Room L-401

PPA-07-008-IP. The temporal window model and the linearity of temporal summation

Plack, Christopher J.

S.01 Monday 3rd - 17:20 - Room L-401

PPA-07-009-IP. Modeling spectral and temporal masking in the human auditory system

Dau, Torsten; Jepsen, Morten L.; Ewert, Stephan D.

S.01 Monday 3rd - 17:40 - Room L-401

PPA-07-010-IP. Quantifying pitch perception: Models and mysteries

Oxenham, Andrew J.; Micheyl, C.; Bernstein, Joshua G.; Simonson, Andrea M.

S.02 Tuesday 4th - 09:00 - Room L-401

PPA-07-011-IP. The robustness of bio-acoustic communication and the role of normalization

Patterson, Roy D.; van Dinther, Ralph; Irino, Toshio

S.02 Tuesday 4th - 09:20 - Room L-401

PPA-07-012-IP. Models of timbre using spectro-temporal receptive fields: investigations of coding strategies

Pressnitzer, Daniel; Elhilali, Mounya; Shihab Shamma

S.02 Tuesday 4th - 09:40 - Room L-401

PPA-07-013-IP: Sparse time-frequency representations in auditory processing

Denham, Susan; Coath, Martin; Balaguer-Ballester, Emili

S.02 Tuesday 4th - 10:00 - Room L-401

PPA-07-014. Auditory processing of spectral modulations produced by early reflections Buchholz, Jörg Matthias S.02 Tuesday 4th - 10:20 - Room L-401 PPA-07-015. Evaluation of Interaural Time and Intensity Differences: A Neural Model Bures, Zbynek S.02 Tuesday 4th - 10:40 - Room L-401 PPA-07-016. Processing capacity for perceptual information in Gaussian noise tokens Tom Goossens, Steven van de Par, Armin Kohlrausch S.02 Tuesday 4th - 11:00 - Room L-401 PPA-07-017-IP. A cortical view on auditory scene analysis: a physiological & computational approach Elhilali, Mounya; Shamma, Shihab S.02 Tuesday 4th - 11:20 - Room L-401 PPA-07-018. Comparative evaluation of successive cochlear modeling stages as possible front-ends for automatic speech recognition Harczos, Tamás; Noqueira, Waldo; Szepannek, Gero; Klefenz, Frank Poster - Wenesday 5th afternoon - Board 15 PPA-08 — Virtual and real auditory environments-auditory display Session Organizers: Barbara Shinn-Cunningham; Gin Best PPA-08-001-IP. The plastic ear: Coping with a life time of change Simon Carlile, Toby Blackman, Joel Cooper S.03 Tuesday 4th - 16:40 - Room L-402 PPA-08-002-IP. Challenges in the auditory display of distance information Zahorik, Pavel S.03 Tuesday 4th - 17:70 - Room L-402 PPA-08-003-IP. Divided listening in auditory displays Best, Virginia; Ihlefeld, Antje; Mason, Christine; Kidd, Gerald Jr; Shinn-Cunningham, Barbara S.03 Tuesday 4th - 17:20 - Room L-402 PPA-08-004-IP. Modelling Processes Underlying Change Deafness Martin, Russell; McAnally, Ken; Eramudugolla, Ranmalee; Irvine, Dexter; Mattingley, Jason S.03 Tuesday 4th - 17:40 - Room L-402 PPA-08-005-IP. Maximizing information transfer in auditory speech displays Brungart, Douglas S.; Simpson, Brian D., Iyer, Nandini S.04 Wednesday 5th - 09:00 - Room L-402 PPA-08-006-IP. Auditory information, hearing loss and hearing aids Naylor, Graham S.04 Wednesday 5th - 09:20 - Room L-402 PPA-08-007-IP. Impact of hearing impairment and hearing aids on benefits due to binauralhearing Kalluri, Sridhar; Edwards, Brent S.04 Wednesday 5th - 09:40 - Room L-402 PPA-08-008-IP. Displaying auditory information in cochlear implants: Insights from simulations in normal hearing Oxenham, Andrew J.; Simonson, Andrea M. S.04 Wednesday 5th - 10:00 - Room L-402 PPA-08-009-IP. Auditory Streaming in data sonification Barrass, Stephen S.04 Wednesday 5th - 10:20 - Room L-402 PPA-08-010. Effects of auditory context on the identification of environmental sounds Gygi, Brian; Shafiro, Valeriy S.04 Wednesday 5th - 10:40 - Room L-402

PPA-08-011. Virtual Audio Reproduced in a Headrest *M.Jones, S.J.Elliott, T.Takeuchi, J.Beer*

Poster - Wenesday 5th afternoon - Board 16

PPA-08-012. On the improvement of virtual localization in vertical directions using HRTF synthesis

and additional filtering Wersényi, György

Poster - Wenesday 5th afternoon - Board 17

PPA-09 - PPA-General

PPA-09-001. Psychosocial variables in a hearing conservation programm addresed to the young

Biassoni, Ester C.; Serra, Mario R.; Bie, Zulema; Layum, Yamila; Díaz, Mildred; Almada, Natalia;

Joekes, Silvia; Yacci, María R.

S.04 Wednesday 5th - 11:20 - Room L-402

PPA-09-002. Acoustic impedances of ear canals measured by impedance tube

Ciric, Dejan; Hammershøi, Dorte

S.05 Wednesday 5th - 16:20 - Room L-402

PPA-09-003. Bad vibes: an investigation into the worst sounds in the world

Cox, Trevor J.

S.04 Wednesday 5th - 11:40 - Room L-402

PPA-09-004. Prelimnary analysis of community response to road traffic noise in Moroccan cities

M.Garoum, W.Kharbaoui, A.Bahoussa, M.Rhachi, A.Moreno

S.05 Wednesday 5th - 15:00 - Room L-402

PPA-09-005. Effect of binaural dichotic presentation with critical bandwidth based comb filters

on source localization

Kulkarni, Pandurangarao N.; Pandey, Prem C. S.05 Wednesday 5th - 15:20 - Room L-402

PPA-09-006. Modulation masking for maskers of different statistical and spectral properties

Kutzner, Dariusz Jan

S.05 Wednesday 5th - 15:40 - Room L-402

PPA-09-007. Defining the limits of tuning for tones with and without vibrato

van Besouw, Rachel; Brereton, Jude; Howard, David

S.05 Wednesday 5th - 16:00 - Room L-402

PPA-09-008. Non-occupational noise exposure in the young: Development of a hearing

conservation programm

Serra, Mario R.; Biassoni, Ester C.; Pavlik, Marta; Pérez Villalobo, Jorge; Curet, Carlos; Hinalaf, María;

Joekes, Silvia; Yacci, María R.; Minoldo, Gloria; Abraham, Silvia

S.04 Wednesday 5th - 11:00 - Room L-402

PPA-09-009. Cochlear nonlinearity and transient evoked otoacoustic emission latency

Sisto, Renata; Moleti, Arturo; Tirabasso, Angelo S.05 Wednesday 5th - 16:40 - Room L-402

PPA-09-010. Judging sex and age: Effect of glottal-pulse rate, vocal-tract length

and original talker

Smith, David R. R.; Walters, Thomas C.; Patterson, Roy D.

S.05 Wednesday 5th - 17:00 - Room L-402

PPA-09-011. Individual differences of electroencephalogram under sound stimuli

Yamada Yukiko, Tsujimura Sohei

S.05 Wednesday 5th - 17:20 - Room L-402

PPA-09-012. Auditory evoked magnetic fields and loudness in relation to bandpass noises

Yoshiharu Soeta; Seiji Nakagawa

S.05 Wednesday 5th - 17:40 - Room L-402

PPA-09-013. Quantitative evaluation on subjective impression of sonority of chords containing

tension notes

Inoue, Hiroki; Emura, Norio; Miura, Masanobu; Yanagida, Masuzo

Poster - Wenesday 5th afternoon - Board 18

PPA-09-014. Perception of bone-conducted ultrasound assessed by its loudness characteristics

Ito, Kazuhito; Nakagawa, Seiji

Poster - Wenesday 5th afternoon - Board 19

PPA-09-015. Effects of mood on musical preference: Experiments and research on everyday listening to music

Junko, Matsumoto

Poster - Wenesday 5th afternoon - Board 20

PPA-09-016. The nonlinear component 2f1-f2 and the pitch of two-component complexes

Mielczarek, Adam

Poster - Wenesday 5th afternoon - Board 21

RBA- Room and Building Acoustics

RBA-01 - Acoustics and sustainable building

Session Organizer: Murray Hodgson

RBA-01-001-IP. Sustainable Building Approach in Spain: Present and Future

Serra, Javier,

S.03 Tuesday 4th - 15:00 - Room L-102

RBA-01-002-IP. Acoustics and the UK's approach: Towards sustainable acoustics

Rogers, Peter

S.03 Tuesday 4th - 15:20 - Room L-102

RBA-01-003. Sustainability, Acoustics and Green Building Rating Systems; or: How to Not Get Locked Out

of Sustainable Design

Kurtz, Alexis

S.03 Tuesday 4th - 15:40 - Room L-102

RBA-01-004-IP. Acoustic Design for Green Buildings

Roy, Kenneth, Snader, Anita

S.03 Tuesday 4th - 16:00 - Room L-102

RBA-01-005-IP. Analysis of the sustainability performance of various residential building designs

with similar acoustic characteristics

Yu, Chia-Jen; Kang, Jian

S.03 Tuesday 4th - 16:20 - Room L-102

RBA-01-006-IP. Acoustical evaluation of six 'green' office buildings

Hodgson, Murray; Hyde, Rosamund; Fulton, Blair; Taylor-Hell, Catherine

S.03 Tuesday 4th - 16:40 - Room L-102

RBA-01-007-IP. Field measurement of the acoustical performance of green roofs

Connelly, Maureen; Khaleghi, Alireza; Hodgson, Murray

S.03 Tuesday 4th - 17:00 - Room L-102

RBA-01-008-IP. Green and sustainable materials for noise control

Asdrubali, Francesco

S.03 Tuesday 4th - 17:20 - Room L-102

RBA-01-009-IP. An experimental investigation of the potential of biomass materials as porous sound absorbers

RD Cookson, DJ Oldham, CA Egan, G Seiffert S.03 Tuesday 4th - 17:40 - Room L-102

RBA-01-010-IP. Vibro-acoustic properties of porous media from recycled granulates

Khan, Horoshenkov, Benkreira, Patel

S.04 Wednesday 5th - 09:00 - Room L-102

RBA-01-011-IP. The development of techniques for assessing the combined acoustic and airflow performance

of natural ventilation strategies

D. J. Oldham, M. H. de Salis, S. Sharples

S.04 Wednesday 5th - 09:20 - Room L-102

RBA-01-012-IP. Relationship between ventilation, air quality and acoustics in 'green'

and 'brown' buildings

Khaleghi, Alireza; Bartlett, Karen; Hodgson, Murray

S.04 Wednesday 5th - 09:40 - Room L-102

RBA-01-013-IP. Improving the Acoustical Performance of a Green Office Building

Max Richter; Zohreh Razavi; Catherine Taylor-Hell; Murray Hodgson; Alireza Khaleghi

S.04 Wednesday 5th - 10:00 - Room L-102

RBA-01-014. Sound reduction of vacuum insulation based on building panels

Hans Cauberg; Martin Tenpierik

S.04 Wednesday 5th - 10:20 - Room L-102

RBA-01-015. Pilot Project about the Implementation of Acoustics Improvements for Fulfilling the CTE

in Subsidized Dwellings in Spain

Fuente, Marta; Fernández, Fernando; Herranz, Karmele

S.04 Wednesday 5th - 10:40 - Room L-102

RBA-01-016. Inverse estimation of non acoustical parameters of absorbing materials

using genetic algorithms

M. Garoum, M. Tajayouti, M. Rhachi, F. Simón, A. Moreno

S.04 Wednesday 5th - 11:00 - Room L-102

RBA-01-017. Acoubat-dbmat: The importance of acoustic modelling of buildings

in the "Codigo Tecnico de la Edificacion" regulatory framework

Portas, Iván

S.04 Wednesday 5th - 11:20 - Room L-102

RBA-01-018. Absorption of open ceilings

Vercammen, Martijn, Scheers, Theo S.04 Wednesday 5th - 11:40 - Room L-102

RBA-01-019. Prediction of Internal Acoustic Conditions in Shopping Centres

Calejo Rodrigues, Rui; Silva, Eduarda; Ferreira, Tiago

Poster - Wenesday 5th afternoon - Board 22

RBA-01-020. The acoustical potential of reed panels for partitions

in sustainable construction

Jiménez, Montaña; Díaz, César; Oldham, David; Fernández-Cabo, José;

Pedrero, Antonio; Torres, Luis

Poster - Wenesday 5th afternoon - Board 23

RBA-02 - Acoustics of ancient theatres: their use for acoustical performances

Session Organizer: Roberto Pompoli

RBA-02-001-IP. The acoustics of the Hellenistic Theatre of Epidaurus: The important role

of the seat rows

Nico F. Declercq, Cindy S. A. Dekeyser S.01 Monday 3rd - 15:00 - Room L-101

RBA-02-002-IP. Acoustics as a tool to support the archaeological reconstruction of ancient theatres:

The case study of Ostia Antica

Gugliermetti, Franco; Bisegna, Fabio, Monaco, Andrea

S.01 Monday 3rd - 15:20 - Room L-101

RBA-02-003-IP. The acoustics of two ancient roman theatres in Pompeii

Dragonetti, Raffaele; Ianniello, Carmine; Mercogliano, Francesco; Romano, Rosario

S.01 Monday 3rd - 15:40 - Room L-101

RBA-02-004-IP. Is scenery important for ancient drama? Chourmouziadou, Kalliopi; Kang, Jian S.01 Monday 3rd - 16:00 - Room L-101 RBA-02-005-IP. The modern use for acoustical performances of the ancient roman Theatre of Beneventum De Gregorio Leda; lannace Gino; Maffei Luigi; Masullo Massimiliano S.01 Monday 3rd - 16:20 - Room L-101 RBA-02-006-IP. Types of ancient theatres and their acoustical characteristics Rindel, Jens Holger S.01 Monday 3rd - 16:40 - Room L-101 RBA-02-007. Study of the italian style theatre's acoustic performance throughout the research job carried out in the "Teatro Principal" of Valencia Barba Sevillano, Arturo; Giménez Pérez, Alicia; Cibrián Ortiz de Anda, Rosa Mª; Cerdá Jordá, Salvador; Romero Faus, José; Lacatis, Radu George S.01 Monday 3rd - 17:00 - Room L-101 RBA-02-008-IP. Acoustical measurements in the ancient theatre of Segesta Farnetani, Andrea; Prodi, Nicola; Pompoli, Roberto S.01 Monday 3rd - 17:20 - Room L-101 RBA-02-009-IP. Acoustic phenomena in archaeological zones in Mexico Cruz Calleja, Jorge Antonio S.01 Monday 3rd - 17:40 - Room L-101 RBA-02-010. Sound characteristics in small historical mediterranean theatres Tronchin, Lamberto; Durvilli, Ilaria; Tarabusi, Valerio. Poster - Wenesday 5th afternoon - Board 24 RBA-03 - Airborne sound insulation Session Organizer: Trevor Nightingale RBA-03-001-IP. Validity of calculation methods for sound transmission through wall panels Mahavir, Singh; Omkar, Sharma; Vellur, Mohanan S.05 Wednesday 5th - 16:40 - Room L-103 RBA-03-002. Comparison of airborne sound insulation field measurements with the predictive model in EN 12354-1: 2000 Cramond, Daniel; Kang, Jian, Sharples, Steve S.05 Wednesday 5th - 17:00 - Room L-103 RBA-03-003. Efficient acoustic wall backings based on thin hollow brick plates Moreno, Antonio; Simón, Francisco; de la Colina, Carlos; Fernández, María José S.05 Wednesday 5th - 17:20 - Room L-103 RBA-03-004. Estimation method for parameters of construction on predicting transmission loss of double leaf dry partition Nakanishi, Shinsuke; Yairi, Motoki; Minemura, Atsuo S.05 Wednesday 5th - 17:40 - Room L-103 RBA-03-005. Numerical analysis of outdoor noise reduction due to building balconies Yasuda, Yosuke; Gohara, Shigetoshi; Sakuma, Tetsuya; Sakamoto, Shinichi S.01 Monday 3rd - 17:00 - Room L-102

> Tomás Baenas, Jenaro Vera, Jesús Alba, Jaime Ramis Poster - Wenesday 5th afternoon - Board 26

Díaz, César, Pedrero, Antonio; Navacerrada, Mª Ángeles

Poster - Wenesday 5th afternoon - Board 25

panels transmission loss

RBA-03-006.

RBA-03-007.

Airborne sound insulation of windows with built-on shutter and prefabricated box

About the influence of the polymeric interlayer shear modulus in the laminated glass

RBA-03-008. Prediction models of airborne sound insulation

Alba, Jesús; Marant, Vincent; Aguilera, Juan Luis; Ramis, Jaime

Poster - Wenesday 5th afternoon - Board 27

RBA-03-009. Correlation of thermal and acoustics features in elements of façade of buildings situated

in mediterranean climate.

Meza, Leonardo; Recuero, Manuel

Poster - Wenesday 5th afternoon - Board 28

RBA-03-010. Effect of facade shape for the acoustic protection of buildings

Busa, Lucia; Secchi, Simone

Poster - Wenesday 5th afternoon - Board 29

RBA-04 - Class room acoustics

Session Organizers: Louis Sutherland; David Lubman

RBA-04-001-IP. Classroom acoustics for the 21st century

Lubman, David; Sutherland, Louis C. S.05 Wednesday 5th - 15:00 - Room L-102

RBA-04-002-IP. Ranch study - Implications for clasroom acoustics

Stansfeld, Stephen; Clark, Charlotte S.05 Wednesday 5th - 15:20 - Room L-102

RBA-04-003-IP. "Modern Teaching" Needs Modern Conditions - Room Acoustics

as an Ergonomic Factor

Oberdörster, Markus; Tiesler, Gerhart S.05 Wednesday 5th - 15:40 - Room L-102

RBA-04-004-IP. Noise - A Stressor? Acoustic Ergonomics Of Schools

Tiesler, Gerhart; Oberdörster, Markus S.05 Wednesday 5th - 16:00 - Room L-102

RBA-04-005-IP. Measurement of teacher's voice levels in primary school classrooms

Shield, Bridget, Anne Carey

S.05 Wednesday 5th - 16:20 - Room L-102

RBA-04-006-IP. Classroom Acoustics - Reverberation and the Cafe Effect..

is the Lombard Effect the key?

Whitlock, James A. T.; Dodd, George
S.05 Wednesday 5th - 16:40 - Room L-102

RBA-04-007-IP. Localizing the Teacher in the Virtual Classroom

Rychtáriková, Monika, Fels, Janina, Vermeir, Gerrit, Wouters Jan, Vorländer Michael

S.05 Wednesday 5th - 17:00 - Room L-102

RBA-04-008-IP. Minimal classroom requirements for optimal acoustic access to speech by children

with and without hearing loss

Iglehart, Frank

S.05 Wednesday 5th - 17:20 - Room L-102

RBA-04-009-IP. Extreme acoustics in extreme learning conditions: An open plan hospital school

Greenland, Emma; Shield, Bridget

S.05 Wednesday 5th - 14:40 - Room L-102

RBA-04-010-IP. Ceiling baffles and reflectors for controlling lecture-room sound

for speech intelligibility

Hodgson, Murray; Yang, Wonyoung S.06 Thursday 6th - 09:00 - Room L-102

RBA-04-011. Effects of sound diffusers and panel absorbers on the sound clarity in classrooms

Sang-bong Shin; Chan-hoon Haan

S.06 Thursday 6th - 09:20 - Room L-102

RBA-04-012. Optimal reverberation time for speech intelligibility for normal and hearing-impaired listeners using auralization Yang, Wonyoung; Hodgson, Murray S.06 Thursday 6th - 09:40 - Room L-102 RBA-04-013. A study of improving speech intelligibility in classrooms Han, Ning; Mak, Cheuk Ming; Qiu, Xiaojun S.06 Thursday 6th - 10:00 - Room L-102 RBA-04-014. Speech Intelligibility in a refurbished classroom Lisa, Martin; Nickel, Jürgen; Becker, Bernhard S.06 Thursday 6th - 10:20 - Room L-102 RBA-05 - Computational methods for room acoustics Session Organizers: Paul Calamia; Peter Svensson RBA-05-001-IP. Acoustical Modeling with Sonel Mapping Kapralos, Bill; Jenkin, Michael; Milios, Evangelos S.06 Thursday 6th - 09:00 - Room L-101 RBA-05-002-IP. Simulation, visualization, and virtual reality based modeling of room acoustics Deines, Eduard; Michel, Frank; Hering-Bertram, Martin; Mohring, Jan; Hagen, Hans S.06 Thursday 6th - 09:20 - Room L-101 RBA-05-003-IP. Hybrid method for room acoustic simulation in real-time Schröder, Dirk; Vorländer, Michael S.06 Thursday 6th - 09:40 - Room L-101 RBA-05-004-IP. An improved energetic approach to diffraction based on the uncertainty principle Stephenson, Uwe M.; Svensson, U. Peter S.06 Thursday 6th - 10:00 - Room L-101 RBA-05-005-IP. Extending geometrical acoustics to highly detailed architectural environments Tsingos, Nicolas; Lefebvre, Sylvain; Dachsbacher, Carsten; Dellepiane, Matteo S.06 Thursday 6th - 10:20 - Room L-101 RBA-05-006-IP. Investigation on higher orders of spherical harmonics equations for efficient room-acoustic predictions Jing, Yun; Xiang, Ning S.06 Thursday 6th - 10:40 - Room L-101 RBA-05-007-IP. Computation of reverberation time in large atrium spaces Yap, Pau Ling; Meng, Yan; Kang, Jian S.06 Thursday 6th - 11:00 - Room L-101 RBA-05-008-IP. Acoustic Radiance Transfer Method Siltanen, Samuel; Lokki, Tapio; Savioja, Lauri S.06 Thursday 6th - 11:20 - Room L-101 RBA-05-009-IP. Applications of large-scale finite element sound field analysis onto room acoustics Otsuru, Toru; Okamoto, Noriko; Okuzono, Takeshi; Sueyoshi, Toshihide S.06 Thursday 6th - 11:40 - Room L-101 RBA-05-010-IP. Steady-State and Time-Decaying Sound Fields in Enclosures Using Energy-Intensity Boundary Elements with Time Delay Analysis and Absorption Scaling Bliss, Donald; Franzoni, Linda; Michalis, Krista S.07 Thursday 6th - 15:00 - Room L-101

RBA-05-011-IP. Treatment of absorbing boundary condition for FDTD analysis on room acoustics

Shinichi Sakamoto; Hiroshi Nagatomo; Takumi Asakura

S.07 Thursday 6th - 15:20 - Room L-101

RBA-05-012. High frequency acoustic simulations via FMM accelerated BEM Gumerov, Nail A.; Duraiswami, Ramani; S.07 Thursday 6th - 15:40 - Room L-101 RBA-05-013-IP. A prediction software interface for room acoustic optimization Dalenbäck, Bengt-Inge; Svensson, U. Peter S.07 Thursday 6th - 16:00 - Room L-101 RBA-05-014-IP. Efficient Representation of Edge Diffraction Impulse Responses Pulkki, Ville; Svensson, U. Peter; Paatero, Tuomas S.07 Thursday 6th - 16:20 - Room L-101 RBA-05-015-IP. Evaluating the perceptual accuracy of model-based auralization Summers, Jason E.; Gaumond, Charles F.; Baer, Ralph N.; Brock, Derek S.07 Thursday 6th - 16:40 - Room L-101 RBA-05-016. Introduction and Applications of Phased Beam Tracing Method: Can We Interpret Low Frequency Response by the Particle Property? Jeong, Cheol-Ho; Ih, Jeong-Guon S.07 Thursday 6th - 17:00 - Room L-101 RBA-05-017-IP. Diffusion-based models for predicting sound fields in rooms with mixed specular and diffuse reflections Foy, Cédric; Billon, Alexis; Picaut, Judicaël; Valeau, Vincent; Sakout, Anas; Hodgson, Murray S.07 Thursday 6th - 17:20 - Room L-101 RBA-05-018-IP. Improved methods for calculating room impulse responses with ease 4.2 AURA Feistel, Stefan; Ahnert, Wolfgang; Miron, Alex; Schmitz, Oliver S.07 Thursday 6th - 17:40 - Room L-101 RBA-05-019. A stable time domain BEM for diffuser scattering Hargreaves, Jonathan A.; Cox, Trevor J. S.01 Monday 3rd - 16:40 - Room L-202 RBA-05-020. Prediction of sound pressure and intensity fields in rooms and near surfaces by ray tracing Cousins, Owen; Hodgson, Murray; Valeau, Vincent S.01 Monday 3rd - 17:00 - Room L-202 RBA-05-021. Implementation and comparison of room acoustical simulation methods and an auralisation tool de Avelar Gomes, Márcio H. S.01 Monday 3rd - 17:20 - Room L-202 RBA-05-022. Calculation of the temporal evolution of sound pressure levels in rooms Cazard, Guillaume; Senat, Claude; Gamba, René Poster - Wenesday 5th afternoon - Board 30 RBA-05-023. Acoustic model of the pre-Romanesque church of Santa Maria de Melque Díaz, César; Pedrero, Antonio; Navacerrada, Mª Ángeles Poster - Wenesday 5th afternoon - Board 31 RBA-05-024. Generating room shapes using elliptic Fourier descriptors for geometrical acoustic simulation Hoshi, Kazuma; Toshiki, Hanyu; Sekiguchi, Katsuaki Poster - Wenesday 5th afternoon - Board 32 RBA-06 - Concert hall acoustics Session Organizers: Takayuki Hidaka; Higini Arau RBA-06-001-IP. Concert Hall Acoustics 2001-2007- Part 1

Beranek, Leo L.

S.02 Tuesday 4th - 09:00 - Room L-101

Beranek, Leo L. S.02 Tuesday 4th - 09:20 - Room L-101 RBA-06-003-IP. Acoustical demands for the conductor's location Meyer, Jürgen S.02 Tuesday 4th - 09:40 - Room L-101 RBA-06-004-IP. Auditory quality of performance spaces for music - the problem of the references -Blauert, Jens; Jekosch, Ute S.02 Tuesday 4th - 10:00 - Room L-101 RBA-06-005-IP. Concert hall acoustics: Science versus reality Commins, Daniel S.02 Tuesday 4th - 10:20 - Room L-101 RBA-06-006-IP. When is a concert hall too quiet? Barron, Mike S.02 Tuesday 4th - 10:40 - Room L-101 RBA-06-007-IP. The acoustic design of the Molina de Segura theater-auditoria Higini Arau-Puchades S.02 Tuesday 4th - 11:00 - Room L-101 RBA-06-008-IP. Concert Acoustics Criteria in the Frauenkirche Dresden Ahnert, W.; Feistel, S.; Vorländer, M. S.02 Tuesday 4th - 11:20 - Room L-101 RBA-06-009-IP. Sound Source for the Measurement of Room Impulse Responses for Auralisation Behler, Gottfried, K. S.02 Tuesday 4th - 11:40 - Room L-101 RBA-06-010-IP. Computation and Applications of Directional Echograms in Room and Concert Hall Acoustics Embrechts, Jean-Jacques S.03 Tuesday 4th - 15:00 - Room L-101 RBA-06-011-IP. New method for auralizing the results of room acoustics simulations Rizzi, Lorenzo; Farina, Angelo; Galaverna, Paolo; Martignon, Paolo; Conti, Lorenzo; Rosati, Andrea S.03 Tuesday 4th - 15:20 - Room L-101 RBA-06-012-IP. Coloration due to reflections, further investigations Halmrast, Tor S.03 Tuesday 4th - 15:40 - Room L-101 RBA-06-013-IP. Reverberation time, mean free path and sound absorption in concert halls Hidaka Takayuki, Nishihara Noriko S.03 Tuesday 4th - 16:00 - Room L-101 RBA-06-014-IP. The Modelling Of Frequency Dependent Boundary Conditions In FDTD Simulation of Concert Hall Acoustics Jeong, Hyok; Drumm, Ian; Horner, Brian; Lam, Yiu Wai S.03 Tuesday 4th - 16:20 - Room L-101 RBA-06-015-IP. Shoebox Concert Halls for the 21st Century Orlowski, Raf S.03 Tuesday 4th - 16:40 - Room L-101 RBA-06-016-IP. The concert hall acoustic design of the Beijing National Grand Theatre of China Schmich, Isabelle; Vian, Jean-Paul S.03 Tuesday 4th - 17:00 - Room L-101 RBA-06-017-IP. Effects of directivity of a sound source on speech intelligibility in the sound field Daiji, Takahashi; Saori, Kuroki S.03 Tuesday 4th - 17:20 - Room L-101

RBA-06-002-IP. Concert Hall Acoustics 2001-2007- Part 2

Toyota, Yasuhisa; Oguchi, Keiji; Motoo, Komoda S.03 Tuesday 4th - 17:40 - Room L-101 RBA-06-019-IP. Transparent Concert Hall Acoustics Van Luxemburg, Renz; Hak, C.C.J.M.; Kok, B.H.M.; Van den Braak, E. S.04 Wednesday 5th - 09:00 - Room L-101 RBA-06-020-IP. Assessment of the uncertainty in room acoustical measurements McIngo B. Witew; Pascal Dietrich S.04 Wednesday 5th - 09:20 - Room L-101 RBA-06-021-IP. Bayesian analysis in characterizing sound energy decay: A quantitative theory of inference in room acoustics Xiang, Ning; Goggans, Paul M.; Jasa, Tomislav S.04 Wednesday 5th - 09:40 - Room L-101 RBA-06-022-IP. Acoustical Aspects of the Sagrada Familia Church Yoshikawa, Shiqeru; Narita, Takafumi; Nishimoto, Yasuko S.04 Wednesday 5th - 10:00 - Room L-101 RBA-06-023. Two new solutions for adjustable acoustics in multi purpose concert halls Agren, Anders S.04 Wednesday 5th - 10:20 - Room L-101 RBA-06-024. The interpretation of objective measurements on the stage by means of the correlation with subjective data Astolfi, Arianna; Giovannini, Maria; Barbato, Giulio; Filippi, Marco S.04 Wednesday 5th - 10:40 - Room L-101 RBA-06-025. "Le Grand Théâtre de Provence": the Aix-en-Provence opera house acoustics Commins, Daniel S.04 Wednesday 5th - 11:00 - Room L-101 Early subjective and objective studies of concert hall stage conditions for orchestral performance RBA-06-026. Dammerud, Jens Jørgen, Barron, Mike S.04 Wednesday 5th - 11:20 - Room L-101 RBA-06-027. The subjective investigation of acoustic perception of musicians: a proposed method for interpretation of results Genta, Gianfranco; Giovannini, Maria; Astolfi, Arianna; Barbato, Giulio S.04 Wednesday 5th - 11:40 - Room L-101 RBA-06-028. Acoustical evaluation of different acoustic conditions in the Queen's Hall - The Royal Library, Copenhagen Giovannini, Maria, Gade Anders Christian S.05 Wednesday 5th - 15:00 - Room L-101 Evaluation of stage acoustics in concert halls by investigating performer's preference RBA-06-029. Kim, Yong Hee; Seo, Chun Ki; Jeon, Jin Yong S.05 Wednesday 5th - 15:20 - Room L-101 RBA-06-030. Qualitative analysis of under-balcony acoustics in concert halls with multiple directional sources Kwon, Youngmin; Siebein, Gary; Gold, Martin S.05 Wednesday 5th - 15:40 - Room L-101 RBA-06-031. Acoustics of the Mira Teatro of Pozuelo de Alarcón, Madrid Ottobre, Daniel; Recuero, Manuel S.05 Wednesday 5th - 16:00 - Room L-101 RBA-06-032. Sound transmission between musicians in a symphony orchestra on a concert hall stage Skålevik, Magne S.05 Wednesday 5th - 16:20 - Room L-101

RBA-06-018-IP. Acoustical Design of New Concert Hall in Mariinsky Theatre, St. Petersburg

RBA-06-033. Information transfer in auditoria

Summers, Jason E.

S.05 Wednesday 5th - 16:40 - Room L-101

RBA-06-034. 1/16 scale model experiment for room acoustics: Physical properties

and auralized sound quality

Tahara, Yasuhiko; Shimoda, Hidemaro S.05 Wednesday 5th - 17:00 - Room L-101

RBA-06-035. A basic study on stage acoustics for an orchestra conductor to estimate acoustic condition

of audience area

Tokunaga, Yasunobu; Terashima, Takane S.05 Wednesday 5th - 17:20 - Room L-101

RBA-06-036. Study on non-linear system model of orchestra performance in auditorium

Terashima, Takane; Tokunaga, Yasunobu S.05 Wednesday 5th - 17:40 - Room L-101

RBA-06-037. Research on Ceiling of Acoustics in Concert Hall

Tu Mingchiu

Poster - Wenesday 5th afternoon - Board 33

RBA-06-038-IP. Our experience on the subjective perception in concert halls

A. Giménez; R. Cibrián; J. Romero, S. Cerda, J.L. Miralles; J. Segura

Poster - Wenesday 5th afternoon - Board 34

RBA-06-039. Auditory evaluation of impulse response reconstructed by correlation factor

Toru, Itakura; Hideo, Shibayama

Poster - Wenesday 5th afternoon - Board 35

RBA-07 - Measuring methods and standards in room and building acoustics

Session Organizer: Patrizio Fausti

RBA-07-001-IP. Measurement uncertainty of sound insulation and sound absorption

Izewska, Anna; Czyzewski, Kazimierz S.02 Tuesday 4th - 10:20 - Room L-103

RBA-07-002. Uncertainties investigation in field measurements of sound insulation

Nascimento, Ranny; Ferreira, Daiana; Nabuco, Marco

S.02 Tuesday 4th - 10:40 - Room L-103

RBA-07-003. Uncertainty evaluation for airborne noise acoustic insulation measurements

Castillo Cid, Javier; Sobreira Seoane, Manuel A.

S.02 Tuesday 4th - 11:00 - Room L-103

RBA-07-004-IP. Sound insulation of plasterboard frame walls based on the surface velocity

level measurements
Nurzyfski, Jacek

S.02 Tuesday 4th - 11:20 - Room L-103

RBA-07-005-IP. Laboratory measurements of the flanking transmission

for brick wall junctions

Barbaresi, Luca; Semprini, Giovanni S.02 Tuesday 4th - 11:40 - Room L-103

RBA-07-006-IP. A methodology to measure the acoustic performance of access floors

Asdrubali, Francesco; D'Alessandro, Francesco

S.03 Tuesday 4th - 15:00 - Room L-103

RBA-07-007-IP. Evaluation of compressibility and compressive behaviour of resilient materials used in floating floors

according to standard en 12431

Schiavi, Alessandro; Alasia, Franco; Pavoni Belli, Andrea; Russo, Francesco; Corallo, Mario

S.03 Tuesday 4th - 15:20 - Room L-103

RBA-07-008. On the dynamic stiffness of materials used under floating floors: Analysis of the resonant frequency dependence by excitation force amplitude using different measurement techniques F. Bettarello, P. Fausti, A. Schiavi S.03 Tuesday 4th - 15:40 - Room L-103 RBA-07-009-IP. Validation of a simulation program for predicting impact noise insulation of floating floors and a new method to determine the elastic properties of resilient interlayers Geebelen, Nathalie; Boeckx, Laurens; Vermeir, Gerrit; Lauriks, Walter S.03 Tuesday 4th - 16:00 - Room L-103 RBA-07-010-IP. Measuring spatial impulse responses in concert halls and opera houses employing a spherical microphone array Angelo, Farina; Andrea, Capra; Lorenzo, Conti; Paolo, Martignon; Filippo Fazi S.03 Tuesday 4th - 16:20 - Room L-103 RBA-07-011. On the use of a non-environmental control room as a 5.1 surround listening room Torres-Guijarro, Soledad; Pena, Antonio; Sobreira-Seoane, Manuel A. S.03 Tuesday 4th - 16:40 - Room L-103 RBA-07-012 MP3 stimuli in room acoustics Hak, C.C.J.M; Vertegaal, J.S. S.03 Tuesday 4th - 17:00 - Room L-103 RBA-07-013. Blind estimation of clarity, centre time and deutlichkeit from speech and music signals Kendrick, Paul; Cox, Trevor J.; Li, Francis, F.; Zhang, Yonggang; Chambers Jonathon S.03 Tuesday 4th - 17:20 - Room L-103 RBA-07-014. The auditoriums of the Polytechnic University of Valencia like pilot halls to establish the protocol and measures in a coordinated project Lacatis, Radu George; Giménez Pérez, Alicia; Romero Faus, José; Cerdá Jordá, Salvador; Navasquillo Hervás, Barba Sevillano, Arturo S.03 Tuesday 4th - 17:40 - Room L-103 RBA-07-015. Accurate Estimation of Reverberation Parameters with Natural Sound Source Stimuli Li, Francis; Cox, Trevor; Kendrick, Paul; Zhang, Yonggang; Chambers, Jonathon S.04 Wednesday 5th - 09:00 - Room L-103 RBA-07-016 Acceptable temperature changes during synchronous averaging for reverberation time measuring by Swept-Sine method Satoh, Fumiaki; Sano, Masato; Hayashi, Yukiteru; Sakamoto, Shinichi; Tachibana, Hideki S.04 Wednesday 5th - 09:20 - Room L-103 RBA-07-017. Continuous Reverberation time estimation applied to obtain Normalized Sound Level differences Undurraga L., Jaime; Venegas C., Rodolfo S.04 Wednesday 5th - 09:40 - Room L-103 RBA-07-018. Speech Intelligibility Measurements in a Non-Diffuse Space using Open and Closed loop systems Gomez, Louis; Nestoras, Christos; Dance, Stephen; Murano, Sal S.04 Wednesday 5th - 01:00 - Room L-103 Speech intelligibility measurements in a diffuse space using open and closed loop systems RBA-07-019. Nestoras, Christos; Gomez, Louis; Dance, Stephen; Murano, Sal S.04 Wednesday 5th - 10:20 - Room L-103 RBA-07-020. Comparison of influence of distortion in MLS and sine sweep technique S.04 Wednesday 5th - 10:40 - Room L-103 RBA-07-021. Effect of stimulus speed error on measured room acoustic parameters Hak, Constant; Hak, Jan S.04 Wednesday 5th - 11:00 - Room L-103

RBA-07-022. Diffuse sound absorption coefficient determination from in situ specific boundary impedance

measurements by the sound intensity technique Rolón, Sebastián; Montoya, Adrián; Pesse, Ricardo S.04 Wednesday 5th - 11:20 - Room L-103

RBA-07-023-IP. Measuring methods for the acoustical characterization of churches

Carbonari Antonio; Cirillo Ettore; Martellotta Francesco; Ricciardi Paola

S.04 Wednesday 5th - 11:40 - Room L-103

RBA-07-024. Evaluation of objective and subjective acoustic parameters of the Cathedral

in Santiago, Chile

Nicolás Bravo, Felipe Contreras, María José Marsano

S.05 Wednesday 5th - 15:00 - Room L-103

RBA-07-025. On the spatial variation of acoustical parameters in churches

Cirillo Ettore, Martellotta Francesco S.05 Wednesday 5th - 15:20 - Room L-103

RBA-07-026. "Acoustic characteristics of Churches of the Altiplano Andino, Influence

of the Spanish architecture" Villegas, Jorge, Recuero, Manuel

S.05 Wednesday 5th - 15:40 - Room L-103

RBA-07-027-IP. Dutch Practical Guideline NPR 3438 - Ergonomics - noise at the workplace

Geerligs, Ruud; Svensson, Carsten

S.05 Wednesday 5th - 16:00 - Room L-103

RBA-07-028. The effect of sound field characteristics on the measurement of heavy-weight impact sounds

Seung Yup Yoo; Sin Young Lee; Jin Yong Jeon S.05 Wednesday 5th - 16:20 - Room L-103

RBA-07-029-IP. Airborne sound transmission, ISO 140 and influence of ISO 717-1 spectrum adaptation terms

Smith, Sean; Macdonald, Russel; Lurcock, Daniel; Mackenzie, Robin

S.05 Wednesday 5th - 17:20 - Room L-203

RBA-07-030-IP. Inter-comparison of laboratory measurements of dynamic stiffness

P. Fausti, F. Bettarello

S.05 Wednesday 5th - 17:40 - Room L-203

RBA-07-031-IP. Influence of not-linearity in the uncertainty on room acoustics measurements

Tronchin, Lamberto; Durvilli, Ilaria; Tarabusi, Valerio.

Poster - Wenesday 5th afternoon - Board 36

RBA-07-032. Propagation speed and absorption coefficient characteristics of airborne ultrasonic wave

in porous materials

Aoki, Kenichi; Kamakura, Tomoo

Poster - Thursday 6th morning - Board 01

RBA-07-033-IP. Laboratory evaluation of airborne sound insulation of lightweight wooden roofs

Di Bella, Antonino

Poster - Thursday 6th morning - Board 02

RBA-07-034. Uncertainties in building acoustic single number quantities. How apply uncertainty calculation

in the scope of the Portuguese regulation

Sónia Monteiro Antunes

Poster - Thursday 6th morning - Board 03

RBA-08 - Microperforated materials

Session Organizers: Kimiro Sagakami; Yong Shen

RBA-08-001-IP. From MPA to Strategically Designed Absorbers Using Solid Freeform Fabrication Techniques

Godbold, Oliver; Kang, Jian; Soar, Rupert; Buswell, Richard

S.06 Thursday 6th - 10:40 - Room L-102

RBA-08-002-IP. Dual-size mpp absorber with coupled air cavity

Miasa, I Made

S.06 Thursday 6th - 11:00 - Room L-102

RBA-08-003-IP. Quick Design for the Micro-perforated Sound Absorber

Shen, Yong; Wang, Han

S.06 Thursday 6th - 11:20 - Room L-102

RBA-08-004-IP. Double-leaf microperforated panel space absorbers: A revised theory

and detailed analysis

Sakagami, Kimihiro; Nakamori, Tomohito; Morimoto, Masayuki; Yairi, Motoki

S.06 Thursday 6th - 11:40 - Room L-102

RBA-08-005-IP. Double leaf microperforated panel space absorbers: An experimental study

for further improvement

Yairi, Motoki; Sakagami, Kimihiro; Morimoto, Masayuki

S.07 Thursday 6th - 15:00 - Room L-102

RBA-08-006-IP. Sound insulation characteristics of a microperforated panel with a subdivided air layer

Toyoda, Masahiro; Daiji, Takahashi S.O7 Thursday 6th - 15:20 - Room L-102

RBA-08-007-IP. Modeling the absorption of non planar acoustic materials

François-Xavier Bécot; Luc Jaouen; Emmanuel Gourdon

S.07 Thursday 6th - 15:40 - Room L-102

RBA-08-008. The micro-slotted resonator with flexible tube bundles

Yadong Lu, Huide Tang, Jing Tian, Hongqi Li S.07 Thursday 6th - 16:00 - Room L-102

RBA-08-009-IP. Acoustic properties of perforated close-cell foams

Kirill V Horoshenkov; Mark J Swift, Siow N Ting

S.07 Thursday 6th - 16:20 - Room L-102

RBA-08-010-IP. Vibro-acoustic properties of porous media from recycled granulates

Amir Khan, Kirill V Horoshenkov, Hadj Benkreira, Raj Patel

S.07 Thursday 6th - 16:40 - Room L-102

RBA-09 - New materials and systems in building acoustics

Session Organizer: Martijn Vercammen

 $RBA-09-001-IP. \ \ Acoustical\ performance\ of\ clamped\ and\ perforated\ poroelastic\ plates$

Attenborough, Keith; Aygun, Haydar S.07 Thursday 6th - 17:00 - Room L-102

RBA-09-002-IP. Frequency dependency and anisotropy of the elastic constants of (non-)porous materials

and their influence on the usage in building acoustical applications.

Boeckx, Laurens; Descheemaeker, Jan; Nathalie, Geebelen; Khurana, Poonam; Vermeir, Gerrit;

Desmet, Wim; Lauriks, Walter

S.07 Thursday 6th - 17:20 - Room L-102

RBA-09-003. Acoustical and physical characterisation of a new porous absorbing plaster

Pompoli, Francesco; Bonfiglio, Paolo S.07 Thursday 6th - 17:40 - Room L-102

RBA-09-004-IP. Resilient ceiling construction in residential buildings

Nash, Anthony

S.08 Friday 7th - 09:00 - Room L-102

RBA-09-005-IP. Acoustical and mechanical characterization of an innovative expanded sintered elasticized polystyrene

(EPS-E) used as underlayer in floating floors

Schiavi, Alessandro; Pavoni Belli, Andrea; Russo, Francesco; Corallo, Mario;

S.08 Friday 7th - 09:20 - Room L-102

RBA-09-006-IP. Hollow brick work with high internal losses Schneider, Martin; Fischer, Heinz-Martin S.08 Friday 7th - 09:40 - Room L-102 RBA-09-007-IP. In-situ evaluation of sound insulation using transfer function measurements Venegas C., Rodolfo; Undurraga L., Jaime S.08 Friday 7th - 10:00 - Room L-102 RBA-09-008. Validation of a difference potential based active noise control system Hyun Lim; Sergei V. Utyuzhnikov; Yiu W. Lam; Mark R. Avis; Ali Turan S.08 Friday 7th - 10:20 - Room L-102 RBA-09-009. Product standards- measuring standards - prediction standards Reis, Frigyes S.08 Friday 7th - 10:40 - Room L-102 RBA-09-010. The use of sintered aluminium for acoustic comfort in fibreless, humid, corrosive or clean environments S.08 Friday 7th - 11:00 - Room L-102 RBA-09-011-IP. Bottom-up approach for microstructure optimization of sound absorbing materials Perrot, Camille; Chevillotte, Fabien; Panneton, Raymond; Olny, Xavier S.08 Friday 7th - 11:20 - Room L-102 RBA-09-012-IP. Variations of floor impact sound insulation performance for heavy-veight impact source according to the types of resilient layer in apartment house Kim, Sun; Lee, Sang-Hoon S.08 Friday 7th - 11:40 - Room L-102 RBA-09-013. Influence of thickness and structural parameters on sound absorption coefficients of porous materials Mirowska, Marianna; CzySewski, Kazimierz Poster - Thursday 6th morning - Board 04 RBA-10 - Open-plan office acoustics Session Organizer: John Bradley RBA-10-001. Acoustic environment in finnish offices - the summary of questionnaire studies Helenius, Riikka; Keskinen, Esko; Haapakangas, Annu; Hongisto, Valtteri S.01 Monday 3rd - 15:00 - Room L-103 RBA-10-002-IP. Work performance and office noise - Do they correlate? Hongisto, Valtteri S.01 Monday 3rd - 15:20 - Room L-103 RBA-10-003-IP. Background speech varying in intelligibility - Effects on cognitive performance and perceived disturbance Schlittmeier, Sabine J.; Liebl, Andreas; Hellbrück, Jürgen; Thaden, Rainer; Vorländer, Michael S.01 Monday 3rd - 15:40 - Room L-103 RBA-10-004-IP. Alternative room acoustic descriptors for open offices – progresses in standardization Chigot, Pierre S.01 Monday 3rd - 16:00 - Room L-103 RBA-10-005-IP. Determination of acoustic conditions in open offices and suggestions for acoustic classification Hongisto, Valtteri; Virjonen, Petra; Keränen, Jukka S.01 Monday 3rd - 16:20 - Room L-103 RBA-10-006-IP. A new model for acoustic design of open offices Keränen Jukka, Virjonen Petra, Hongisto Valtteri

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S.01 Monday 3rd - 16:40 - Room L-103

S.01 Monday 3rd - 17:00 - Room L-103

Bradley, John S.

RBA-10-007-IP. Designing and Assessing Speech Privacy in Open-Plan Offices

RBA-10-008. Open office acoustic design - multidimensional case studies Krajcarz, Fabien S.01 Monday 3rd - 17:20 - Room L-103 RBA-10-009-IP. Acoustic Design in the New Architectural Trend of "Exposed Structures" Roy, Kenneth S.01 Monday 3rd - 17:40 - Room L-103 RBA-10-010-IP. Integration of furnishing in open plan office design: Case studies Asselineau, Marc S.02 Tuesday 4th - 09:00 - Room L-103 RBA-10-011-IP. Acoustic comfort in open plan library spaces Markham, Benjamin S.02 Tuesday 4th - 09:20 - Room L-103 RBA-10-012-IP. Designing for Speech Privacy in Open Plan Healthcare Environments Roy, Kenneth S.02 Tuesday 4th - 09:40 - Room L-103 RBA-10-013-IP. Open Plan In the USA: Regulatory Trends Catalyze Action Sykes, David; Cavanaugh, William; Rockstroh, Kurt S.02 Tuesday 4th - 10:00 - Room L-103 RBA-11 - Reflections, scattering and diffraction in room acoustics Session Organizers: Lily Wang, Jonathan Rathsam RBA-11-001-IP. Low Frequency Limits of Reflector Arrays Skålevik, Magne S.08 Friday 7th - 09:00 Room L-101 RBA-11-002-IP. Scattered responses from suspended reflector panels with rounded edges Rathsam, Jonathan; Wang, Lily M. S.08 Friday 7th - 09:20 Room L-101 RBA-11-003-IP. Culling insignificant diffraction components for interactive acoustic simulations Calamia, Paul T.; Svensson, U. Peter S.08 Friday 7th - 09:40 Room L-101 RBA-11-004-IP. Subjective evaluations of sound diffusion using a scale model hall Jeon, Jin Yong; Ryu, Jong Kwan S.08 Friday 7th - 10:00 Room L-101 RBA-11-005-IP. Lüke and Power Residue Sequence Diffusers Dadiotis, Konstantinos; Cox, Trevor J.; Angus, James A. S. S.08 Friday 7th - 10:20 Room L-101 RBA-11-006-IP. Investigating the Scattering Behavior of Incident Plane Waves using BEM Bansal, Mahesh; Feistel, Stefan; Ahnert, Wolfgang; Bock, Steffen S.08 Friday 7th - 10:40 Room L-101 RBA-11-007-IP. Room acoustics: Compact representation for multi-source binaural playback Duraiswami, Ramani; Zotkin, Dmitry N.; Gumerov, Nail A. S.08 Friday 7th - 11:00 Room L-101 RBA-11-008. Objective evaluations of sound scattering by using scale models and computer simulation Shin-ichi Sato; Yong Hee Kim; Hye Mi Lee; Jin Yong Jeon S.08 Friday 7th - 11:20 Room L-101 RBA-11-009. Sound absorption measurement using MLS method. How much is the final result affected by the non-linearities of the measurement chain? Guidorzi, Paolo; Garai, Massimo S.08 Friday 7th - 11:40 Room L-101

RBA-11-010. Study of scattering panel pairs in a virtually anechoic environment Rizzi, Lorenzo; Farina, Angelo; Galaverna, Paolo; Martignon, Paolo; Conti, Lorenzo; Rosati, Andrea Poster - Thursday 6th morning - Board 05 RBA-11-011. Scattering and absorption of an oblique incident plane wave by a finite impedance strip Sum, K. S.; Pan, J. Poster - Thursday 6th morning - Board 06 RBA-12 – Sound insulation between dwellings Session Organizer: Jens Holger Rindel RBA-12-001-IP. Optimization of ceramic brick double walls with peripheral resilient layers Arines, Susana; Cortés, Azucena; Fuente, Marta; Guigou - Carter, Catherine; Claude, Martin; Villot, Michel S.06 Thursday 6th - 09:00 - Room L-103 RBA-12-002-IP. Influence of Seals in Sound Insulation Prediction of Steel Double Panel Doors Herrera, Jose; Recuero, Manuel S.06 Thursday 6th - 09:20 - Room L-103 RBA-12-003-IP. Parametric survey of factors controlling low frequency impact sound transmission in dwellings Neves e Sousa, Albano; Gibbs, Barry S.06 Thursday 6th - 09:40 - Room L-103 RBA-12-004. Improving techniques for screening impact sound insulation. Dodd, George; Li, Ming S.06 Thursday 6th - 10:00 - Room L-103 RBA-12-005. Acoustic Characteristics of Korea Traditional Houses Tai Gang, Lee; Hang, Kim; Sun Woo, Kim S.06 Thursday 6th - 10:20 - Room L-103 RBA-12-006. In situ measurements of the structural reverberation time of several floors Alba, Jesús; Venero, Juan; del Rey, Romina; Ramis Soriano, Jaime; Escuder, Eva S.06 Thursday 6th - 10:40 - Room L-103 RBA-12-007. In situ measurements of the structural reverberation time of several brick walls Alba, Jesús; Venero, Juan; del Rey, Romina; Ramis Soriano, Jaime; Escuder, Eva; Gavaldà, Raquel S.06 Thursday 6th - 11:00 - Room L-103 RBA-12-008. Vibration reduction index of different junctions measured in situ Alba, Jesús; Venero, Juan; del Rey, Romina; Ramis Soriano, Jaime; Escuder, Eva S.06 Thursday 6th - 11:20 - Room L-103 RBA-12-009. Loss factor measurements on plasterboard Delannoy, Jaime; Recuero, Manuel S.06 Thursday 6th - 11:40 - Room L-103 RBA-12-010. Dependence of RW with loss factor for plasterboard and perception on changes of sound insulation Delannoy, Jaime; Recuero, Manuel S.07 Thursday 6th - 15:00 - Room L-103 RBA-12-011. Reduction of the flanking transmission of gypsum walls by elastic interlayers Ruff, Andreas; Fischer, Heinz-Martin S.07 Thursday 6th - 15:20 - Room L-103 RBA-12-012. Saint-Gobain Insulation acoustical comfort classes Andrew Koster S.07 Thursday 6th - 15:40 - Room L-103 RBA-12-013. Effect of IACC on subjective response to heavy-weight impact sounds Lee, Pyoung Jik; Kim, Jae Ho; Sato, Shin-ichi; Jeon, Jin Yong S.07 Thursday 6th - 16:00 - Room L-103

RBA-12-014. Comparative analysis of airborne and impact sound insulation of typical Spanish dwellings built at different times

González Súarez J.; García Sastre L.; Barrero Fernández A; Martín Bravo M.A.; Lorenzana Lorenzana T;

Sanz Requena J.F.

S.07 Thursday 6th - 16:20 - Room L-103

RBA-13 - Spatial hearing in concert auditoria

Session Organizer: Mike Barron

RBA-13-001-IP. Spatial Perception of Distance, Azimuth, and Envelopment when the Direct to Reverberant Ratio

(d/r) is below -6dB Griesinger, David

S.01 Monday 3rd - 15:00 - Room L-102

RBA-13-002-IP. Auditory room size perception in concert auditoria

Cabrera, Densil; Jeong, Dae-Up S.01 Monday 3rd - 15:20 - Room L-102

RBA-13-003-IP. Behavior of lateral energy in small concert halls

Möller, Henrik; Hyde, Jerald R.

S.01 Monday 3rd - 15:40 - Room L-102

RBA-13-004-IP. 3-D sound field simulation of concert halls for performing musicians

Ueno, Kanako; Yokoyama, Sakae; Tachibana, Hideki

S.01 Monday 3rd - 16:00 - Room L-102

RBA-13-005-IP. Spatial responsiveness forty years on.

Marshall, A. Harold

S.01 Monday 3rd - 16:20 - Room L-102

RBA-13-006-IP. Acoustical Renovation of The Queen Elizabeth Theatre, Vancouver:

Spatial Sound in a Wide Room

O'Keefe, John

S.01 Monday 3rd - 16:40 - Room L-102

RBA-13-007-IP. The importance of reflective walls far from the stage for audience

in concert auditoria Hanyu Toshiki

Poster - Thursday 6th morning - Board 07

RBA-14 – Structure borne sound sources (Impact noise and equipment noise)

Session Organizers: Michel Villot; Barry Gibbs

RBA-14-001-IP. Attenuation and flanking transmission in lightweight structures

Brunskog, Jonas; Lhomond, Alice; Ohlrich, Mogens

S.07 Thursday 6th - 16:40 - Room L-103

RBA-14-002-IP. Prediction of re-radiated noise from structure born vibrtion due to railway

Coquel, Guillaume; Villot, Michel, Jean, Philippe, Duée, Raphaël

S.07 Thursday 6th - 17:00 - Room L-103

RBA-14-003-IP. Experimental study of the activity and mobility of structure-borne sound sources

by a reception plate method

Gibbs, Barry

S.07 Thursday 6th - 17:20 - Room L-103

RBA-14-004-IP. Sound absorption in rooms at low frequencies: Room content as obstacles and absorbers

Gustavo da S. V. de Melo, Samir N. Y. Gerges, Barry M. Gibbs

S.07 Thursday 6th - 17:40 - Room L-103

RBA-14-005-IP. Model of a person walking as a structure borne sound source

Matthias Lievens; Jonas Brunskog S.08 Friday 7th - 09:00 - Room L-103 RBA-14-006-IP. On the use of a single equivalent receiver mobility in lightweight buildings

Mayr, Andreas R.; Gibbs, Barry S.08 Friday 7th - 09:20 - Room L-103

RBA-14-007-IP. Direct and indirect methods to assess the structure-borne power transmission

into receiving structures

Scheck, Jochen; Heinz-Martin Fischer; Gibbs, Barry

S.08 Friday 7th - 09:40 - Room L-103

RBA-14-008-IP. Structure borne sound of washing machines calculated with PREN 12354-5

Simmons, Christian

S.08 Friday 7th - 10:00 - Room L-103

RBA-14-009-IP. Testing floor coverings mounted on lightweight floors using ISO/FDIS 140-11

Villot, Michel; Chene, Jean-Baptiste; Houssain, Simon

S.08 Friday 7th - 10:20 - Room L-103

RBA-14-010-IP. Sound transmission through pipe systems and into plate structures

in buildings - a simplified SEA model *Bron-van der Jagt, Susanne*

S.08 Friday 7th - 10:40 - Room L-103

RBA-14-011-IP. A comprehensive analytical model for prediction of low frequency impact

sound transmission in dwellings Neves e Sousa, Albano; Gibbs, Barry S.08 Friday 7th - 11:00 - Room L-103

RBA-14-012. Characterisation of a structure-borne sound source using independent

and in-situ measurement

Elliott, Andrew; Moorhouse, Andy; Pavic, Goran

S.08 Friday 7th - 11:20 - Room L-103

RBA-14-013. Floor impact sound insulation and vibration using standard heavy and soft impact sources

in the wood-framed model building for experiments

Hiramitsu, Atsuo; Tsujimura, Yukio; Houno, Hirotsugu; Murakami, Tomonori

S.08 Friday 7th - 11:40 - Room L-103

RBA-14-014. How to improve impact sound insulation in a lightweight module based system

Ljunggren, Fredrik; Ågren, Anders S.01 Monday 3rd - 17:20 - Room L-102

RBA-14-015. Control of noise and vibrations produced by HVAC mechanical equipment in a hotel: A case study

Mateus, Diogo; Santos, Paulo

S.01 Monday 3rd - 17:40 - Room L-102

RBA-15 - Virtual acoustics and auralisation methods

Session Organizer: Durand Begault

RBA-15-001-IP. Experiences with an electronic enhancement system in a mid-size theatre

Behrens, Tobias; Ahnert, Wolfgang S.02 Tuesday 4th - 09:00 - Room L-102

RBA-15-002-IP. Applications of Directional Audio Coding in Audio

Pulkki, Ville

S.02 Tuesday 4th - 09:20 - Room L-102

RBA-15-003-IP. Perceptually-based auralization

Tsingos, Nicolas

S.02 Tuesday 4th - 09:40 - Room L-102

RBA-15-004-IP. Investigations of multi-channel auralization technique for solo instruments and orchestra

Vigeant, Michelle C.; Wang, Lily M.; Rindel, Jens Holger

S.02 Tuesday 4th - 10:00 - Room L-102

RBA-15-005. Virtual Acoustic Prototype techniques applied to the simulation of noise from rainfall on skylights

Moorhouse, Andy

S.02 Tuesday 4th - 10:20 - Room L-102

RBA-15-006. Assessment of Room Absorption by Normal and Hearing Impaired People

Saher, Konca; Rindel, Jens Holger; Nijs, Lau S.02 Tuesday 4th - 10:40 - Room L-102

RBA-15-007. Assessment of Musical Instrument Performances for Practice Rooms by Musicians

Saher, Konca; Özis, Feridun; Rindel, Jens Holger

S.02 Tuesday 4th - 11:00 - Room L-102

RBA-15-008. Calculation of interaural cross-correlation coefficient (IACC) of any music signal convolved with impulse

responses by using the IACC of the sound field and the autocorrelation function of the sound source

Shimokura, Ryota; Tronchin, Lamberto; Cocchi, Alessandro

S.02 Tuesday 4th - 11:20 - Room L-102

RBA-15-009. Spatial coherence between microphones with arbitrary first-order directivity

in reverberant acoustic fields Kuster, Martin; van Walstijn, Maarten S.02 Tuesday 4th - 11:40 - Room L-102

RBA-15-010-IP. Interactive multi-channel auralization with camera-based tracking

Kajastila, Raine; Lokki, Tapio; Savioja, Lauri Poster - Thursday 6th morning - Board 08

RBA-15-011. Effects of directivity of microphones and loudspeakers in sound field reproduction based

on wave field synthesis

Kimura, Toshiyuki; Kakehi, Kazuhiko Poster - Thursday 6th morning - Board 09

RBA-15-012. Multi-channel Recording and Reproduction for Minimizing the Difference in the Spatial Covariances

Between the Original and Reproduced Sound Fields

Yoshinori Takahashi; Mikio Tohyama Poster - Thursday 6th morning - Board 10

RBA-16 - RBA-General

RBA-16-001. Rating Sound Insulation in Terms of Speech Inteligibility

Park, Hyeon Ku, Bradley, John S., Gover, Bradford N.

S.07 Thursday 6th - 15:00 - Room L-202

RBA-16-002. A MATLAB simulation of "shoebox" room acoustics and its educational use

in a music technology course *Campbell, Douglas R.*

S.07 Thursday 6th - 15:20 - Room L-202

RBA-16-003. Sabine's formula revisited with acoustic quadraphony

Stanzial, Domenico

S.07 Thursday 6th - 15:40 - Room L-202

RBA-16-004. Prediction of speech intelligibility along underground platforms using a web based model

Dance, Stephen

S.07 Thursday 6th - 16:00 - Room L-202

RBA-16-005. Characteristics of Sound Absorption and Insulation Performance

of Korean Traditional Windows

Hang, Kim; Tai Gang, Lee; Sun Woo, Kim S.07 Thursday 6th - 16:20 - Room L-202

RBA-16-006. Optimal reverberation conditions in churches

Francesco Martellotta

S.07 Thursday 6th - 16:40 - Room L-202

RBA-16-007. The assessment of reverberant conditions of underground stations Nowicka, Elzbieta S.07 Thursday 6th - 17:00 - Room L-202 RBA-16-008. Passive tuned loudspeakers as absorbers for room acoustics Oldfield, Robert G.; Cox, Trevor J. S.07 Thursday 6th - 17:20 - Room L-202 RBA-16-009. Comparative acoustical studies of two Goan churches Tavares, Menino Allan S.M.Peter; Rajagopalan, S; Sharma, Satish Jagannath S.07 Thursday 6th - 17:40 - Room L-202 RBA-16-010. Architectural Acoustics among Nonspecialists: Myths and Misconceptions Viveiros, Elvira; Duarte, Elisabeth de A. C. S.08 Friday 7th - 09:00 - Room L-202 RBA-16-011. Measurement of normal and oblique incidence absorption coefficients using a scanning laser doppler vibrometer Vuye, Cedric; Vanlanduit, Steve; De Sitter, Gert; Guillaume, Patrick; Boeckx, Laurens S.08 Friday 7th - 09:20 - Room L-202 RBA-16-012. On the calculation of uncertainties of single number ratings in building acoustics Wittstock, Volker S.08 Friday 7th - 09:40 - Room L-202 RBA-16-013. Analysis of two orchestra rehearsal rooms in Thessaloniki, Greece Zepidou, Georgia; Dance, Stephen; Nestoras, Christos S.08 Friday 7th - 10:00 - Room L-202 RBA-16-014. Study on Acoustic Characteristics for Civic Building Lobbies in Taiwan Rong-Ping Lai; Yu-Shing Chiang; Kai-hua Liu S.08 Friday 7th - 10:20 - Room L-202 SAV - Structural Acoustics and Vibration SAV-01 - Applications of analytical techniques in general Session Organizers: Pedro M. Jordan; Stanley Chin-Bing Dynamic analysis of a switched reluctance motor SAV-01-001-IP. Lladó, Juan; Sánchez, Beatriz; Martínez, Abelardo; Pérez, F. José; Martín, Bonifacio; Laloya, Eduardo; Pollán, Tomás; Vicuña, Javier S.04 Wednesday 5th - 10:20 - Room R-103 SAV-01-002-IP. Direct numerical solution of the wave equation describing acoustic scattering and propagation through spatially complex dispersive media Guy V. Norton S.04 Wednesday 5th - 10:40 - Room R-103 SAV-01-003-IP. Traveling waves and singular surfaces in nonlinear acoustics P.M. Jordan, S.04 Wednesday 5th - 11:00 - Room R-103 SAV-01-004. The relative significance of cross-order interface mobilities Bonhoff, H. A.; Petersson, B. A. T. S.04 Wednesday 5th - 11:20 - Room R-103 SAV-01-005. Influence of cam profile errors on the dynamic behavior of a cam follower system Trabelsi, Hassen; Chaâri, Fakher; Haddar, Mohamed S.04 Wednesday 5th - 11:40 - Room R-103 Energy approach to evaluation of vibrational energy transmission in joints SAV-01-006.

Cieslik, Jacek; Bochniak, Wojciech S.05 Wednesday 5th - 15:00 - Room R-103

SAV-01-007. Wave approach modeling of sandwich and laminate composite structures with viscoelastic layers Sebastian Ghinet, Noureddine Atalla S.05 Wednesday 5th - 15:20 - Room R-103 SAV-01-008. Discrete vibrating systems with random damping: An identification method based on envelopes Heinkelé, Christophe S.05 Wednesday 5th - 15:40 - Room R-103 SAV-01-009. Retrieval of a model for the removal of dispersion from wave fields in plates Hörchens, Lars; De Vries, Diemer S.05 Wednesday 5th - 16:00 - Room R-103 SAV-01-010. Vibration and acoustic radiation analysis of a stiffened fluid-loaded plate using a wavenumber approach and a discrete Fourier transform Maxit, Laurent S.05 Wednesday 5th - 16:20 - Room R-103 SAV-01-011. Sound radiation from a perforated unbaffled plate Putra, Azma; Thompson, David S.05 Wednesday 5th - 16:40 - Room R-103 SAV-01-012. Comparison of integral and matrix formulation to estimate the mechanical radiation impedance of plane sound radiators Arenas, Jorge; Alba, Jesus; Ramis, Jaime S.05 Wednesday 5th - 17:00 - Room R-103 SAV-01-013. The influence of material parameters and geometry on an active junction Svensson, Jonas L.; Andersson, Patrik B.U.; Kropp, Wolfgang S.05 Wednesday 5th - 17:20 - Room R-103 SAV-01-014. The attenuation of structure-borne sound in non-periodically stiffened plates Tschakert, R.; Petersson, B.A.T. S.05 Wednesday 5th - 17:40 - Room R-103 SAV-01-015. Vibration analysis of a tyre model using the wave finite element method Waki, Yoshiyuki; Mace, Brian; Brennan, Michael S.06 Thursday 6th - 09:00 - Room R-103 SAV-01-016. Approximate modal model of a discontinously varying thickness rectangular plate Pastrian, Raúl; Morcillo, Miguel Angel; Redon, Emmanuel; Herráez, Marta Poster - Thursday 6th morning - Board 11 SAV-01-017. Vibration of a cube excited by one percussion Nieves, Francisco J.; Bayón, Ana; Salazar, Félix; Gascón, Francisco Poster - Thursday 6th morning - Board 12 SAV-01-018. Modal analysis and numerical simulation of the dynamic behaviour in multilayer panels Ivorra Chorro, S.; Segura Alcaraz, J.G.; Gadea Borrell, J.M.; Francés Monllor, J. Poster - Thursday 6th morning - Board 13 SAV-01-019. Studies of capability of PZT actuators in ASAC Svec, Petr; Jandak, Vojtech; Jiricek, Ondrej; Brothanek, Marek

Poster - Thursday 6th morning - Board 14

SAV-02 - Simulation and environmental factors

Session Organizers: Yun-Fan Hwang; Jin-Huang Huang

SAV-02-001-IP. Coupling between two membranes of a japanese drum

Suzuki, Hideo; Hwang, Yun-Fan

S.06 Thursday 6th - 09:20 - Room R-103

SAV-02-002-IP. Numerical simulation of fluid-structure interactions in a japanese drum Hwang, Y. F.; Chia-Pei Weng; Suzuki, Hideo S.06 Thursday 6th - 09:40 - Room R-103 SAV-02-003. Finite element modelling for determination of acoustics attenuation Julia, Sonnerup; Delphine, Bard; Per-Anders Wernberg; Göran, Sandberg. S.06 Thursday 6th - 10:00 - Room R-103 SAV-02-004-IP. Analytical description of gaussian beams with finite aperture Ding, Desheng; Lee, Bing-Jean; Huang, Jin H. S.06 Thursday 6th - 10:20 - Room R-103 SAV-02-005. Numerical computation of the acoustic pressure in a coupled plate/fluid problem. Experimental validation Sagartzazu, Xabier, Hervella-Nieto, Luis; Pagalday, Juan Manuel S.06 Thursday 6th - 10:40 - Room R-103 SAV-02-006-IP. Wave Dispersion in Composite Plates Containing Spheroidal Inclusions Liu, Yu-Cheng; Hwang, Y.F.; Huang, Jin H. S.06 Thursday 6th - 11:00 - Room R-103 SAV-02-007-IP. Enhanced working-amplitude distribution of ultrasonic wide-blade horn with the use of a wave-tuning plate Dai, Wen-Long; Y.C. Liu; Huang, Jin H. S.06 Thursday 6th - 11:20 - Room R-103 SAV-02-008. Investigation on the dynamic behavior of a compound planetary gear drive Dhouib, Seddik; Hbaieb, Riadh; Chaari, Fakher; Haddar, Mohamed S.06 Thursday 6th - 11:40 - Room R-103 SAV-02-009. Vibro-acoustic behavior of a gearbox transmission Slim Abbes; Tahar Fakhfakh; Mohamed Haddar Poster - Thursday 6th morning - Board 15 SAV-02-010. Experimental and numerical analysis of vibroacoustic attenuation in sandwich structures Martinez, Manex; Cortés, Fernando; Elejabarrieta, María Jesús Poster - Thursday 6th morning - Board 16 SAV-03 - SAV-General Measurement of dynamic properties of recycled tire rubber granulates and their mixture SAV-03-001. Ameur, Chettah; Slah, Chedly; Mohamed, Ichchou; Olivier, Bareille S.07 Thursday 6th - 15:00 - Room R-103 SAV-03-002. Hybrid techniques for simulating the transmission loss of a car door Martín Sánchez, Juan Sabas, Hidalgo Otamendi, Antonio, González Ganso, Jose Andrés S.07 Thursday 6th - 15:20 - Room R-103 SAV-03-003. Radiated Noise from Engine Blocks of Marine Engines Deahwan Kim; Chinsuk Hong; Weui Bong Jeong S.07 Thursday 6th - 15:40 - Room R-103 SAV-03-004. Wave guiding effects in light weight plates with truss-like core geometries Kohrs, Torsten; Petersson, Björn A.T. S.07 Thursday 6th - 16:00 - Room R-103 SAV-03-005. Modelling wave propagation in cylinders using a wave/finite element technique Manconi, Elisabetta; Mace, Brian R S.07 Thursday 6th - 16:20 - Room R-103

Kawanabe, Tomoaki; Masuda, Naoya; Moriyama, Hiroyuki

S.07 Thursday 6th - 16:40 - Room R-103

Plate Vibration and Internal Acoustic Characteristics in Cylindrical Structure with an Excited End Plate

SAV-03-006.

SAV-03-007. Energy transport in coupled beams and plates

Savin, Éric

S.07 Thursday 6th - 17:00 - Room R-103

SAV-03-008. A systematic approach for determining the acoustic radiation modes of structures

with arbitraty geometry shapes Jiancheng Tao; Xiaojun Qiu

S.07 Thursday 6th - 17:20 - Room R-103

SAV-03-009. The effects of internal resonances in vibration isolators under absolute velocity feedback control

Yan, Bo; Brennan, Mike; Elliott, Steve; Ferguson, Neil

S.07 Thursday 6th - 17:40 - Room R-103

SAV-03-010. Level measurement based on vibration analysis

Romina Kehl

S.08 Friday 7th - 09:00 - Room R-103

SAV-03-011. State of the art and perspective about human vibration measurement & evaluation

Miccoli Giuseppe

S.08 Friday 7th - 09:20 - Room R-103

SAV-03-012. The study on sound-absorbing properties of oblique micro-perforated panel

Rong-Ping Lai, Chung-Chiech Chiang, Kai-Hua Liu

Poster - Thursday 6th morning - Board 17

SAV-03-013. Selective near-field acoustic holography

Alba Fernández, Jesús; Escuder Silla, Eva; Ramis Soriano, Jaime; del Rey Tormos, Romina

Poster - Thursday 6th morning - Board 18

SAV-03-014. Vibro-acoustic behavior of Spanish bells with metallic and wooden yoke

Ivorra, Savador; Vera, Jenaro, Francés, Jorge Poster - Thursday 6th morning - Board 19

SAV-03-015. Vibration reduction of resiliently mounted pump-like machineries

Kim, Hyun-Sil; Kim, Jae-Seung; Kim, Bong-Ki Poster - Thursday 6th morning - Board 20

SAV-03-016. Insertion loss of cylindrical structures excited by high intensity acoustic loads

Ark, S.-H.; Seo, S.-H.; Jeong, H.-K.; Jang, Y.-S.; Yi, Y.-M.; Cho G.-R.

Poster - Thursday 6th morning - Board 21

ULT - Ultrasonics

ULT-01 — Acoustic radiation force and biomedical applications

Session Organizer: Armen Sarvazyan

ULT-01-001-IP. Radiation force as a universal phenomenon in wave motion

Sarvazyan, Armen

S.02 Tuesday 4th - 09:00 - Room R-203

ULT-01-002-IP. New Developments in Supersonic Shear Imaging

Mathias Fink

S.02 Tuesday 4th - 09:20 - Room R-203

ULT-01-003-IP. Clinical Applications of Acoustic Radiation Force Impulse Imaging

Nightingale, Kathryn; Palmeri, Mark; Zhai, Liang; Frinkley, Kristin; Wang, Michael; Dahl, Jeremy;

Pinton, Gianmarco; Hsu, Stephen; Fahey, Brian; Dumont, Douglas; Trahey, Gregg

S.02 Tuesday 4th - 09:40 - Room R-203

ULT-01-004-IP. Application of Dynamic Radiation Force of Ultrasound and Tissue Acoustic Response

in Medical Imaging

M. Fatemi, A. Alizad, D. H. Whaley, J. F. Greenleaf

S.02 Tuesday 4th - 10:00 - Room R-203

ULT-01-005-IP. Material properties from ultrasound simulated vibrometry

James F. Greenleaf; Shigao Chen, Xiaoming Zhang

S.02 Tuesday 4th - 10:20 - Room R-203

ULT-01-006. Identification of Prostate Tissue Structures and Lesions by Vibro-acoustography: A. Alizad, F. G. Mitri, B.

J. Davis, J. F. Greenleaf, M. Fatemi S.02 Tuesday 4th - 10:40 - Room R-203

ULT-01-007. In Vivo ARFI Imaging of Atherosclerosis with Validation in a Relevant

Pig Model of CVD

Behler, Russell; Nichols, Timothy; Merricks, Elizabeth; Gallippi, Caterina

S.02 Tuesday 4th - 11:00 - Room R-203

ULT-01-008. Generation and propagation of shear waves in inhomogeneous rubber-like media

Andreev, Valeriy; Vedernikov, Andrey S.02 Tuesday 4th - 11:20 - Room R-203

ULT-01-009. Transient Acoustic Radiation Force Elastography for HIFU Applications

Berry, Gearóid; Melodelima, David; Xu, Lijun; Shipley, Jacqueline; Bamber, Jeffrey; ter Haar, Gail;

Rivens, Ian; Duck, Francis

S.02 Tuesday 4th - 11:40 - Room R-203

ULT-02 - Air-borne transducers for ultrasonic detection

Session Organizer: Tadeus Gudra; Alexei Moussalov

ULT-02-001-IP. Design of air-coupled ultrasound transducers for use in scanning arrays

Deveugele, Jurgen; Bulcaen, Dirk; Blomme, Erik S.03 Tuesday 4th - 15:00 - Room R-203

ULT-02-002-IP. Non-contact ultrasound for the characterization of porous materials

Boeckx, Laurens; Sebaa, Naima; De Ryck, Laurent; Lagrain Bert; Lauriks, Walter

S.03 Tuesday 4th - 15:20 - Room R-203

ULT-02-003. Acoustic and acousto-optic characteristics of silicone nanofoam

Takeshi lino, Kentaro Nakamura, Sadayuki Ueha S.03 Tuesday 4th - 15:40 - Room R-203

ULT-02-004-IP. Industrial applications of air-coupled ultrasound

Hutchins, David; Gan, Tat Hean; Pallav, Prakash; Schindel, David

S.03 Tuesday 4th - 16:00 - Room R-203

ULT-02-005-IP. A non-contact system for transporting objects using ultrasonic levitation

Gudra, Tadeusz; Perkowski, Daniel; Opielinski, Krzysztof J.

S.03 Tuesday 4th - 16:20 - Room R-203

ULT-02-006. Plane wave front amplitude equalization for air-coupled concave array transducers used

in a Lamb waves NDT system

Prego Borges, José Luis; García, Mercedes; Yañez, Yago; Chávez, Juan Antonio; Salazar, Jordi;

Turó, Antoni; García Hernandez, Miguel Jesus. Poster - Thursday 6th morning - Board 22

ULT-02-007. Underground imaging using shear waves -Resolution improvement

using pulse compression-

Hiraku, Kawasaki; Tsuneyoshi, Sugimoto Poster - Thursday 6th morning - Board 23

ULT-03 – Analytical and numerical (FEM) transducer modelling

Session Organizer: A. Lula; N. Lamberti

ULT-03-001-IP. Piezo-transducer modelling with a switched output voltage: application to energy harvesting

and self-powered vibration control Guyomar, Daniel; Lallart, Mickaël

S.07 Thursday 6th - 16:20 - Room R-204

ULT-03-002-IP. FE analysis of a high displacement ultrasonic actuator based on a flexural mechanical amplifier

Iula, Antonio; Lamberti, Nicola; Pappalardo, Massimo

S.07 Thursday 6th - 16:40 - Room R-204

ULT-03-003-IP. A method for the automatic characterization of piezoelectric ceramic elements

Lamberti, Nicola Antonio; Iula, Antonio; Caputo, Andrea

S.07 Thursday 6th - 17:00 - Room R-204

ULT-03-004-IP. Practical Application of Advanced Computational Acoustics

Lerch, Reinhard; Kaltenbacher, Manfred; Meiler, Martin

S.07 Thursday 6th - 17:20 - Room R-204

ULT-03-005. The Potential for Finite Difference Time Domain in Piezoelectric Materials

M. Ferri, R.Picó, F. Camarena, B. Roig, J. Redondo, M.R. Avis

S.07 Thursday 6th - 17:40 - Room R-204

ULT-04 - Capacitive ultrasonic transducers: Modelling and technology

Session Organizer: Massimo Pappalardo

ULT-04-001-IP. Polymer-based CMUTS

Hutchins, David, Billson, Duncan, Bradley, Robert

S.03 Tuesday 4th - 16:40 - Room R-203

ULT-04-002-IP. Radiation impedance of circular CMUT membranes

Köymen, Hayrettin; enlik, Muhammed N.; Olcum, Selim; Atalar, Abdullah

S.03 Tuesday 4th - 17:00 - Room R-203

ULT-04-003-IP. Echographic images improvements with a CMUT probe

Caliano, Giosuè; Savoia, Alessandro; Caronti, Alessandro; Longo, Cristina; Gatta, Philipp; Pappalardo, Massimo

S.03 Tuesday 4th - 17:20 - Room R-203

ULT-04-004-IP. Capacitive micromachined ultrasonic transducers: 14 years later

B. Pierre; T. Khuri-Yakub

S.03 Tuesday 4th - 17:40 - Room R-203

ULT-04-005. Air-coupled CMUT arrays based on MUMPS

Octavio Manzanares, Alberto; Martínez Graullera, Oscar; Martín Arguedas, Carlos J.;

Gómez-Ullate Alvear, Luis, Montero de Espinosa Freijo, Francisco

Poster - Thursday 6th morning - Board 24

ULT-05 - HIFU in medical therapy

Session Organizer: Lawrence A. Crum

ULT-05-001-IP. Fifteen years of prostate cancer treatment with HIFU

Jean Yves Chapelon, Emmanuel Blanc, Albert Gelet

S.05 Wednesday 5th - 16:00 - Room R-203

ULT-05-002-IP. HIFU Therapy for Palliation of Advanced Pancreatic Cancer

Hwang, Joo Ha; Wang, Yak-Nam; Kargl, Steve; Cunitz, Bryan; Warren, Cinderella; Dunmire, Barbrina;

Curra, Francesco; Zhou, Yufeng; Upton, Melissa; Starr, Frank; Mitchell, Stuart

S.05 Wednesday 5th - 16:20 - Room R-203

ULT-05-003-IP. The role of bubbles in clinical high intensity focused ultrasound

ter Haar G., McLaughlan J., Rivens I.

S.05 Wednesday 5th - 16:40 - Room R-203

ULT-05-004-IP. Brain therapy using focused ultrasound

Kullervo Hynynen

S.05 Wednesday 5th - 17:00 - Room R-203

ULT-05-005. Focal shift in high intensity focused ultrasound

Makov, Yuri; Sánchez-Morcillo, Victor; Camarena, Francisco; Espinosa, Victor

S.05 Wednesday 5th - 17:20 - Room R-203

ULT-05-006. Perspectives of Tumour Therapy by Local Ultrasonic Hyperthermia and Thermoablation Lierke, Ernst G.; Hemsel, Tobias; Leibenger, Martin S.05 Wednesday 5th - 17:40 - Room R-203 ULT-05-007 Investigating the role of ultrasonic scattering in the wave absorption phenomenon Cortela, Guillermo, C. A. Pereira, Wagner; San Emeterio, Jose Luis, Negreira, Carlos Poster - Thursday 6th morning - Board 25 ULT-06 - High intensity acoustics near surfaces and interfaces Session Organizers: Bertran Dubus; Philippe Blanc-Benon ULT-06-001-IP. Non-linear acoustic effects induced by temperature gradients near the fluid/solid interfaces Gusev, Vitalyi; Penelet, Guillaume S.01 Monday 3rd - 15:00 - Room R-204 ULT-06-002-IP. Acoustically-induced nonlinear seismic effects above buried objects Attenborough, Keith; Qin, Qin S.01 Monday 3rd - 15:20 - Room R-204 ULT-06-003-IP. A non-contact sliding table based on near field acoustic levitation Nakamura, Kentaro; Ueha, Sadayuki S.01 Monday 3rd - 15:40 - Room R-204 ULT-06-004. High-speed jetting following shock-wave reflection at planar and curved liquid-gas interfaces Zijlstra, Aaldert; Ohl, Claus-Dieter S.01 Monday 3rd - 16:00 - Room R-204 ULT-07 - High-power ultrasonic transducers Session Organizer: Sadayuki Ueha; Luis Gaete ULT-07-001-IP. Industrial requirements in high-power ultrasonic transducers for defoaming Rodriquez, Germán; Acosta, Victor M.; Pinto, Alberto; Gallego-Juárez, Juan A. S.01 Monday 3rd - 16:20 - Room R-204 ULT-07-002-IP. High-power ultrasound to asses the stress state in rocks Gaete-Garretón, Luis; Vargas-Hernández, Yolanda, Sepúlveda-Palma, Francisco S.01 Monday 3rd - 16:40 - Room R-204 ULT-07-003. Feasibility of generating predetermined complex patterns of multiple foci using 2-D phased arrays:possible practical applications Gavrilov, Leonid R.; Hand, Jeff W. S.01 Monday 3rd - 17:00 - Room R-204

ULT-07-004-IP. Ultrasonic complex vibration systems for high-power ultrasonics using diagonal slit converters and different velocity metal ring-pair converters

Jiromaru, Tsujino; Tetsugi, Ueoka; Ryohei, Karatsu; Shun, Tanaka; Goh, Kishimoto;
Yuu, Kubodera; Atsuyuki, Suzuki
S.01 Monday 3rd - 17:20 - Room R-204

ULT-07-005-IP. Point-convergence type aerial ultrasonic sound source using a flexural vibrating circular plate and high-intensity sound waves by that sound source *Ito, Youichi*

S.01 Monday 3rd - 17:40 - Room R-204

ULT-07-006-IP. Large capacity ultrasonic complex vibration sources using multiple transducers integrated using a circular vibration disk

Jiromaru, Tsujino; Tetsugi, Ueoka, Tohru, Aoyama; Takafumi, Kyuzen; Takaharu, Doi
S.02 Tuesday 4th - 09:00 - Room R-204

ULT-07-007-IP. Influence of acoustic parameters in ultrasonic comminution of Zn powders in liquid phase Gaete-Garretón, Luis; Vargas-Hernández, Yolanda, Cares-Pacheco, María, Vega, Ricardo S.02 Tuesday 4th - 09:20 - Room R-204 ULT-07-008. A novel ultrasonic linear motor using plate longitudinal vibrators

assembled in a T-shape

Aoyagi, Manabu; Matsutate, Yuki; Tomikawa, Yoshiro; Takano, Takehiro

Poster - Thursday 6th morning - Board 26

ULT-07-009. Ultrasonic Motor Using a Piezoelectric Ceramic Multilayer Vibrator

With Diagonally Symmetric Form

Takano, Takehiro; Tamura, Hideki; Tomikawa, Yoshiro; Aoyagi, Manabu

Poster - Thursday 6th morning - Board 27

ULT-08 - High-power ultrasound in large-scale sonochemical reactors

Session Organizer: Timothy Mason

ULT-08-001-IP. An overview of large scale sonochemical reactors

Timothy J Mason

S.06 Thursday 6th - 11:00 - Room R-204

ULT-08-002-IP. Results of the coupling of microbiological and sonochemical treatment of azo due wastewater

in a pilot-plant scale bio-membrane reactor system

Astrid Rehorek

S.06 Thursday 6th - 11:20 - Room R-204

ULT-08-003-IP. The prospects for scale-up of the ultrasonic extraction of antioxidants

from Rosemary herb Larysa Paniwnyk

S.06 Thursday 6th - 11:40 - Room R-204

ULT-08-004-IP. Power ultrasound and scale-up: flow-cell reactors, crystallisation,

and particle engineering Ruecroft, Graham

S.07 Thursday 6th - 15:00 - Room R-204

ULT-08-005-IP. Some approaches to the scale up of ultrasonic processing by VTT in Finland

Juha Heikkinen

S.07 Thursday 6th - 15:20 - Room R-204

ULT-08-006-IP. Minerals applications of high power ultrsonics

A.F. Collings, P.B. Gwan; A.P. Sosa Pintos S.O7 Thursday 6th - 15:40 - Room R-204

ULT-08-007-IP. Synthesis of nano-ZnO/poly(methylmethacrylate) composite through sonoelectrochemistry

Audrey Mandroyan, L. Paniwnyk, T.J. Mason Poster - Thursday 6th morning - Board 37

ULT-09 - New power ultrasonic processes and systems

Session Organizer: Enrique Riera

ULT-09-001-IP. Continuous ultrasonic Process for biodiesel production

Stavarache, Carmen; Vinatoru, Mircea; Maeda, Yasuaki; Bandow, Hiroshi

S.02 Tuesday 4th - 09:40 - Room R-204

ULT-09-002-IP. Acoustic shock waves as a cell-permeabilization method

Loske, Achim; Martínez de la Escalera, Gonzalo; Armenta, Eduardo; Varela, Alfredo

S.02 Tuesday 4th - 10:00 - Room R-204

ULT-09-003-IP. The enhancement of mass transport processes using ultrasound

Kentish, Sandra; Ashokkumar, Muthupandian S.02 Tuesday 4th - 10:20 - Room R-204

ULT-09-004-IP. A brief history of the application of ultrasonics in food processing

Mawson, Raymond; Knoerzer, Kai

S.02 Tuesday 4th - 10:40 - Room R-204

ULT-09-005-IP. Influence of process variables on hot air drying assisted by power ultrasound

García-Pérez, José V.; Cárcel, Juan A.; Benedito, José; Riera, Enrique;

Mulet, Antonio

S.02 Tuesday 4th - 11:00 - Room R-204

ULT-09-006-IP. Prototype for the use of ultrasound in supercritical media

Riera, Enrique; Blanco, Alfonso, Acosta, Víctor M., Gallego-Juárez, Juan A., Blasco, Miguel,

Mulet, Antonio

S.02 Tuesday 4th - 11:20 - Room R-204

ULT-09-007-IP. Sono-crystallization: from experimental results to microscopical interpretations

Louisnard, Olivier; Espitalier, Fabienne S.02 Tuesday 4th - 11:40 - Room R-204

ULT-09-009-IP. Effect of US treatment on the physical properties of whey and soy proteins

Vesna Lelas, Anet Re ek Jambrak, Zoran Herceg, Suzana Rimac Brn i

S.03 Tuesday 4th - 15:20 - Room R-204

ULT-09-010-IP. Chemistry under simultaneous microwave and ultrasonic irradiation

Pedro Cintas, Giancarlo Cravotto S.03 Tuesday 4th - 15:40 - Room R-204

ULT-09-011. Porosity Engineering of Polymeric Foams by localised sonication

Torres-Sanchez, Carmen; Corney, Jonathan S.03 Tuesday 4th - 16:00 - Room R-204

ULT-09-012. Measuring output acoustic power of an ultrasonic surgical system using

the calorimetric method

Antonio Petosic, Bojan Ivancevic, Kristian Jambrocic

S.03 Tuesday 4th - 16:20 - Room R-204

ULT-09-013. The receiving range of sound field measurements in cavitating media: Definition

of an effective distance

Koch, Christian; Jenderka, Klaus-Vitold

S.03 Tuesday 4th - 16:40 - Room R-204

ULT-09-014. Technical aspects of use of ultrasound for intensification processing:

new path to "green chemistry"

Yachmenev, Val; Condon, Brian; Lambert, Allan

S.03 Tuesday 4th - 17:00 - Room R-204

ULT-09-015. Design of a Multi-DOF Linear Ultrasonic Motor by use of a First Longitudinal Mode

and Two First Bending Modes
Kanasugi, Hideaki; Maeno, Takashi

Poster - Thursday 6th morning - Board 28

ULT-09-016. Design of a ring-type ultrasonic motor by use of mixed vibration modes for implovement of efficienct

and life time by reduction of slippage Toeda, Makoto; Maeno, Takashi

Poster - Thursday 6th morning - Board 29

ULT-09-017. Atomization of high-viscosity materials by one point convergence of sound waves radiated

from an aerial ultrasonic source using a transverse vibrating plate

Miura. Hikaru

Poster - Thursday 6th morning - Board 30

ULT-10 - Signal processing for ultrasonic imaging & detection

Session Organizer: Jose Luis San Emeterio

ULT-10-001-IP. Automatic Segmentation of Breast Tumours on Ultrasound Images Using Genetic Algorithms

and Morphological Operators

Alvarenga, André V.; Pereira, Wagner C.A.; Infantosi, Antonio F.C.;

Azevedo, Carolina M.

S.04 Wednesday 5th - 09:00 - Room R-203

ULT-10-002-IP. Angle-Dependent Deconvolution of Ultrasonic Time-of-Flight Diffraction (TOFD) Signals

Honarvar, Farhang; Yaghootian, Amin S.04 Wednesday 5th - 09:20 - Room R-203

ULT-10-003-IP. On the use of the non-stationarity of the structural noise for defect visibility enhnacement

in ultrasonic inspections

Izquierdo, M.A.G.; Hernández, M.G.; Molero, M ; Anaya, J.J

S.04 Wednesday 5th - 09:40 - Room R-203

ULT-10-004-IP. Comparison of digital signal processing methods for the detection of isolated flaws

using perpendicular ultrasonic transducers

Rodríquez, Miquel A.; Ramos, Antonio; San Emeterio, José L.

S.04 Wednesday 5th - 10:00 - Room R-203

ULT-10-005-IP. Shift invariant wavelet processing of ultrasonic traces

Pardo, Emilia; San Emeterio, Jose Luis; Rodriguez, Miguel Angel; Ramos, Antonio

S.04 Wednesday 5th - 10:20 - Room R-203

ULT-10-006-IP. A neuro-genetic approach to non-invasive temperature estimation in multilayered media

under ultrasound therapy

Teixeira, C. A.; Ruano, M. Graça; Ruano, A. E.; Pereira, W. C. A.

S.04 Wednesday 5th - 10:40 - Room R-203

ULT-10-007-IP. Ultrasonic signal processing for archaeological ceramic classification

Salazar, Addisson; Parra, Angela; Vergara, Luis; Doménech, María Teresa;

Serrano, Arturo

S.04 Wednesday 5th - 11:00 - Room R-203

ULT-10-008. Lamb Wave generation with an air-coupled piezoelectric array using

square chirp excitation

Garcia-Rodriguez, Mercedes; Yañez, Yago; Garcia-Hernandez, Miguel; Salazar, Jordi;

Turo, Antoni; Chavez, Juan Antonio

S.04 Wednesday 5th - 11:20 - Room R-203

ULT-10-009. Ultrasound chirp imaging using a 40-MHz annular array

Jonathan Mamou, Jeffrey A., Ketterling Ronald, H. Silverman

S.04 Wednesday 5th - 11:40 - Room R-203

ULT-10-010. Ultrasonic multiscale modelling for material characterisation: The multiresolution analysis

for signal interpretation

Fairouz Bettayeb

S.05 Wednesday 5th - 15:00 - Room R-203

ULT-10-011. Sparse deconvolution method for wave separation in NDT

Roux, Aurelien; Simon, Laurent; Idier, Jerffiome; Potel, Catherine; Lebon, Stephane;

de Belleval, Jean-Francois; Gherbezza, Jean-Marc

S.05 Wednesday 5th - 15:20 - Room R-203

ULT-10-012. Evaluation of the concrete strength by using the quality factor

of multi-reflected ultrasound

Tao, Liang; Mori, Yahiro; Motooka, Seiichi S.05 Wednesday 5th - 15:40 - Room R-203

ULT-10-013-IP. Separation of concurrent echoes depending on the emitting source

using DS-CDMA

Ureña, J.; Pérez, M C.; Ochoa, A.; Hernández, A.; De Marziani, C.; Álvarez, F. J.;

García, J. J.; Jiménez, A.; Jiménez, J. A.

Poster - Thursday 6th morning - Board 31

ULT-10-014. A wavelet application to improve the quality of images obtained using the synthetic aperture

focusing technique

Calas, Héctor, Acevedo, Pedro, Moreno, Eduardo

Poster - Thursday 6th morning - Board 32

ULT-10-015. Study of an algorithm's performance to generate ultrasonic images using saft

Acevedo, Pedro; Calas, Héctor

Poster - Thursday 6th morning - Board 33

ULT-10-016. Flaw detection on highly scattering materials using multiresolution analysis

with time-frequency thresholding

Molero, M.; Izquierdo, M.A.G.; Hernández, M.G.; Anaya, J.J.; Sánchez, T.

Poster - Thursday 6th morning - Board 34

ULT-10-017. Time reversal determination of particle concentration in liquid media

Pérez, Nicolás; Negreira, Carlos, Canetti, Rafael Poster - Thursday 6th morning - Board 35

ULT-10-018. Study on the submerged underground imaging with ultrasonic wave

Seo, Kunihiko; Shirakawa, Takashi; Sugimoto, Tsuneyoshi

Poster - Thursday 6th morning - Board 36

ULT-10-019. Modeling a turbulent atmosphere as a dynamic channel for narrow-band ultrasonic signals

Álvarez, F. J.; Ureña, J.; Hernández, A.; Jiménez, A.; Villadangos, J. M.; Pérez, M C.

Poster - Thursday 6th afternoon - Board 01

ULT-10-020. Bessel transducers: Analysis of the temperature field

Cortela, Guillermo, Aulet, Alina, Calas, Hector, C. A. Pereira, Wagner; Eiras,

José A., Moreno, Eduardo, Negreira, Carlos Poster - Thursday 6th afternoon - Board 02

ULT-11 Sonochemical water treatment

Sesson Organizer: Astrid Rehorek

ULT-11-001-IP. Process design approach to sonochemical water treatment based on the example

of dichloroaniline tauride

Astrid Rehorek

S.06 Thursday 6th - 09:00 - Room R-204

ULT-11-002-IP. Treatment of ballast water by high power ultrasonics

A.F. Collings, P.B.Gwan, M.T.Binet, J.L.Stauber S.06 Thursday 6th - 09:20 - Room R-204

ULT-11-003-IP. Use of high power ultrasonics in processes of waste water purification

Oleg V. Abramov, Vladimir O. Abramov, Anatoly V. Shkolnikov

S.06 Thursday 6th - 09:40 - Room R-204

ULT-11-004. Comparison between photocatalysis with TiO₂ and ultrasound in the degradation

of aqueous solutions of 1,2 dichlorobenzene

Ardizzone Silvia, Bianchi Claudia L., Cappelletti Giuseppe, Pirola Carlo, Selli Elena,

Ragaini Vittorio

S.06 Thursday 6th - 10:00 - Room R-204

ULT-11-005-IP. Ultrasound, electrochemistry and water treatment

Larysa Paniwyk

S.06 Thursday 6th - 10:20 - Room R-204

ULT-11-006-IP. Ultrasonically assisted dewatering of waste activated sludge

Hanna Kyllönen , Pentti Pirkonen, Antti Grönroos

S.06 Thursday 6th - 10:40 - Room R-204

$\hbox{ULT-12}-Sono electrochemical processes$

Session Organizer: David Walton; José González García

ULT-12-001-IP. Electrochemistry with ultrasound: State of the research in the field

Sáez, Veronica; Bonete, Pedro; Esclapez-Vicente, Deseada; Iniesta, Jesús; González-García, José; Walton, David

S.08 Friday 7th - 09:00 - Room R-204

ULT-12-002-IP. Cavitation, shockwaves and electrochemistry – an experimental and theoretical approach

to a complex environment

Birkin, Peter; Offin, Douglas; Leighton, Timothy

S.08 Friday 7th - 09:20 - Room R-204

ULT-12-003. Acoustic cavitation near a surface explored via nanosecond electrochemistry.

Maisonhaute, Emmanuel

S.08 Friday 7th - 09:40 - Room R-204

ULT-12-004-IP. Electrochemical measurements of ultrasonic wind and asymetric cavitation

Hihn, Jean-Yves; Doche Marie-Laure, Mandroyan, Audrey; Pollet Bruno; Viennet; Rémy;

Maisonhaute Emmanuel; Bailly Yannick S.08 Friday 7th - 10:00 - Room R-204

ULT-12-005-IP. Small scale preparative electrolysis in sonoelectrochemical cell optimized with the help

of simulation of ultrasonic intensity distribution

Klima, Jiri; Ludvik, Jiri; Urban, Jiri; González-García, José; Sáez, Veronica; Frías-Ferrer, Angel

S.08 Friday 7th - 10:20 - Room R-204

ULT-12-006. Sonoelectrochemical deposition of catalytically active iron metal at boron doped diamond electrodes:

aplication to electroreduction of chloroacetates

Sáez, Veronica; González-Garcia, Jose; Kulandainathan, M. Anbu; Marken, Frank

S.08 Friday 7th - 10:40 - Room R-204

ULT-12-007. Sonochemical immobilization of noble metal nanoparticles on the surface of metal oxides

Mizukoshi, Yoshiteru; Masahashi, Naoya; Tanabe, Shuji; Seino, Satoshi;

Yamamoto, A, Takao

S.08 Friday 7th - 11:00 - Room R-204

ULT-12-008. Synthesis of CO₆₅FE₃₅ alloy nanoparticles by pulsed sonoelectrochemistry

Zin, Valentina; Dabalà, Manuele S.08 Friday 7th - 11:20 - Room R-204

ULT-12-009-IP. The application of sonoelectrochemistry in the synthesis of nanometals

Aharon Gedanken

S.08 Friday 7th - 11:40 - Room R-204

ULT-12-010. An in-situ EQCM study of sonoelectrochemical deposition of metallic materials

Matic, Sladjana; Schneider, Oliver; Argirusis, Christos

Poster - Thursday 6th afternoon - Board 03

ULT-12-011. Sonoelectrochemical production of gold and silver nanoparticles

Dabalà Manuele, Cojocaru Paula, Vicenzo Antonello, Zin Valentina, Brunelli Katya,

Cavallotti Pietro Luigi

Poster - Thursday 6th afternoon - Board 04

ULT-13 - Tissue characterization by ultrasound

Session Organizer: Johan M. Thijssen

ULT-13-001-IP. High frequency ultrasonic imaging and tissue characterization

K. K. Shuna

S.03 Tuesday 4th - 17:20 - Room R-204

ULT-13-002-IP. IntraVascular Ultrasound

Anton FW van der Steen, Johannes A Schaar, David Goertz, Martijn Frijlink,

Nico de Jong Patrick W Serruys and. Nicolaas Bom,

S.03 Tuesday 4th - 17:40 - Room R-204

ULT-13-003-IP. New developments in elasticity imaging

Bamber, Jeffrey; Barbone, Paul; Berry, Gearoid; Bush, Nigel; Chakraborty, Aabir; Coutts, Louise;

Crescenti, Remo; Duck, Francis; Liederman, Ricardo; MelodeLima, David; Miller, Naomi;

Oberai, Assad; Shipley, Jacqueline

S.04 Wednesday 5th - 09:00 - Room R-204

ULT-13-004-IP. Cardio Vascular Ultrasound Elastography

De Korte, Chris L.; Lopata, Richard G.P. Hansen, Hendrik H.G.; Nillessen, Maartje M.; Gerrits, Inge H.G.;

Kapusta, Livia.; Thijssen, Johan M.

S.04 Wednesday 5th - 09:20 - Room R-204

ULT-13-005. A new high frequency ultrasonic indentation method dedicated to the elastic properties assessement:

Diagnostic of muscular dystrophy

Leydier, Audrey; Hnia, Karim; Laux, Didier; Huqon, Gérald; Mathieu, Jérôme; Ferrandis, Jean-Yves;

Despaux, Gilles; Mornet, Dominique

S.04 Wednesday 5th - 09:40 - Room R-204

ULT-13-006-IP. Ultrasound contrast agents: from diagnosis to therapy

Tranquart François, Bouakaz Ayache, Bleuzen Aurore, Palanchon Peggy, Olar Monica,

Correas Jean-Michel

S.04 Wednesday 5th - 10:00 - Room R-204

ULT-13-007-IP. Tissue characterization by ultrasonic spectrum analysis

Feleppa, Ernest J.

S.04 Wednesday 5th - 10:20 - Room R-204

ULT-13-008. Power mesurement of airbone ultrasonic transducers

José Francisco Chinchurreta, Rob Hekkenberg, Francisco Montero de Espinosa

S.04 Wednesday 5th - 10:40 - Room R-204

ULT-13-009-IP. Computer-aided ultrasound B-mode diagnosis

Thijssen, Johan M.; Weijers, Gert; de Korte, Chris L.

S.04 Wednesday 5th - 11:00 - Room R-204

ULT-13-010-IP. Quantitative ultrasound for bone characterization

Laugier, Pascal; Talmant, Maryline

S.04 Wednesday 5th - 11:20 - Room R-204

ULT-13-011. Statistical sensitivity of the envelope of pulse-echo signal backscattered in trabecular bone:

Simulation study Litniewski, Jerzy

S.04 Wednesday 5th - 11:40 - Room R-204

ULT-13-012. Monitoring thermal changes in soft tissue by 1D transient elastography

Benech, Nicolás; Negreira, Carlos

Poster - Thursday 6th afternoon - Board 05

ULT-13-013. Simulation of biologic tissue image formation by ultrasound back-scattering

Rafik, Serhane; Takek, Boutkedjirt; Hakim, Djelouah

Poster - Thursday 6th afternoon - Board 06

ULT-13-014. Reflection and transmission of plane ultrasonic pulses in a three layer biological structure

J. C. B. Leite; J. L. San Emeterio; W.C.A. Pereira Poster - Thursday 6th afternoon - Board 07

ULT-13-015. Scatterer size and the discrimination of in vitro liver fibrosis

Meziri, Mahmoud; Pereira, Wagner C. A.; Remita, Naamane; Boudjema, Bouzid; Laugier, Pascal

Poster - Thursday 6th afternoon - Board 08

ULT-13-016. A Computer-Controlled Phantom of the Heart Valve Movement Designed

for Ultrasonic Examinations

Opielinski, Krzysztof J.; Tubis, Elzbieta; Gudra, Tadeusz

Poster - Thursday 6th afternoon - Board 09

ULT-14 — Ultrasonic manipulation of micron-sized particles and cells

Session Organizers: Jeremy Hawkes; Itziar González

ULT-14-001-IP. Manipulation of cells in ultrasound standing waves for life sciences applications

Bazou, Despina; Coakley, W Terence

S.01 Monday 3rd - 15:00 - Room R-203

ULT-14-002-IP. Ultrasonic particle manipulation devices formed by resonantly-excited, cylindrical structures Kaduchak, Gregory; Ward, Michael D.; Goddard, Gregory R. S.01 Monday 3rd - 15:20 - Room R-203 ULT-14-003-IP. Modeling of the acoustic field within micromachined fluidic devices Stefano Oberti; Adrian Neild; Jürq Dual S.01 Monday 3rd - 15:40 - Room R-203 ULT-14-004-IP. Ultrasonic particle manipulation approaches in on-line vibrational spectroscopy Radel, Stefan; Schnöller, Johannes; Dominquez-Vidal, Ana; Lendl, Bernhard; Gröschl, Martin; Benes, Ewald S.01 Monday 3rd - 16:00 - Room R-203 ULT-14-005. Movement of airborne particles in tubular metal resonators Jeremy J. Hawkes, Rito Mijarez-Castro, Peter R. Fielden; Pramukh N Jayassekera S.01 Monday 3rd - 16:20 - Room R-203 ULT-14-006. Gentle cell handling using ultrasonic standing waves in a chip-based perfusion system for cell characterization and on-chip cultivation Hultström, Jessica; Manneberg, Otto; Hertz, Hans M.; Wiklund Martin S.01 Monday 3rd - 16:40 - Room R-203 ULT-14-007. Experiments and modelling of a stepped horn and a plate using natural frequencies and mode shapes for controlling particles motion Rito Mijarez-Castro, Jeremy J. Hawkes, Peter R. Fielden, Pramukh N Jayassekera S.01 Monday 3rd - 17:00 - Room R-203 ULT-14-008. Acoustic evaluation of ion-exchange Hirawa, Shungo; Okada, Tetsuo S.01 Monday 3rd - 17:20 - Room R-203 ULT-14-009-IP. Ultrasonic manipulation in miniature focused resonators as a multipurpose toolbox for handling and enrichment of bio-active particles and cells Martin Wiklund S.01 Monday 3rd - 17:40 - Room R-203 ULT-14-010-IP. Designing for nodal position in planar resonators for ultrasonic manipulation Martyn Hill, Rosemary J Townsend, Nicholas R Harris S.01 Monday 3rd - 18:00 - Room R-203 ULT-14-011-IP. Airborne Cell Analysis Seyed Tabaei, Hongyan Liu,Loy Alkafadji,Estera Dey, Eva Degerman, Jonas Johansson, Anders Kristensen, Staffan Nilsson S.01 Monday 3rd - 18:20 - Room R-203 ULT-14 -012 PHY-01-002. Ultrasonic immuno-agglutination tests for food-borne pathogenic bacteria Ossina, Natalya; Panikov, Nikolai; Sizova, Maria; Bystryak, Simon Poster - Thursday 6th afternoon - Board 10 ULT-14 -013 PHY-01-003. HIV antibody detection using an ultrasound particle agglutination method

Ossina, Natalya; Ketema, Fassil; Constantine, Niel; Bystryak, Simon

Poster - Thursday 6th afternoon - Board 11

ULT-15 - Ultrasonic transducer systems for imaging & detection

Session Organizers: Marc Lethiecq; Antonio Ramos

ULT-15-001-IP. Ultrasonic Systems for Imaging & Detection

Hillger, Wolfgang

S.06 Thursday 6th - 09:00 - Room R-203

ULT-15-002-IP. Excitation principles for bulk acoustic-wave sensors

Lucklum, Ralf; Hempel, Ulrike; Osorio Garcia; Maria Isabel, Hauptmann, Peter; Lucklum, Frieder; Vetelino, John F.

S.06 Thursday 6th - 09:20 - Room R-203

ULT-15-003-IP. Doppler Ultrasound Blood Flow Measurement System García-Nocetti, Fabián; Solano-González, Julio; Fuentes-Cruz, Martín; Moreno-Hernández, Eduardo; Villar-Inclán, Alejandro; Prohias-Martínez, Juán S.06 Thursday 6th - 09:40 - Room R-203 ULT-15-004-IP. Piezoelectric thick film technologies for high frequency transducer applications Franck Levassort; Rasmus Lou-Moeller, Erling Ringgaard, E. Filoux, Konstantin Astafiev, Wanda Wolny, Marc Lethiecq. S.06 Thursday 6th - 10:00 - Room R-203 ULT-15-005-IP. Design, fabrication and characterization of multimode monolithic piezoelectric transducers Hladky Anne-Christine; Newnham Robert E.; Dubus Bertrand S.06 Thursday 6th - 10:20 - Room R-203 ULT-15-006-IP. Advanced electronic interfaces for the monitoring of AT-CUT quartz crystal resonators used as acoustic sensors in fluid media Arnau, Antonio; García, José Vicente; Jiménez, Yolanda; Ferrari, Vittorio; Ferrari Marco S.06 Thursday 6th - 10:40 - Room R-203 ULT-15-007-IP. Air Coupled Lamb Wave Based NDE Ultrasonic System Garcia-Hernandez, Miguel J.; Kichou, Hassanne; Prego-Borges, Jose Luis; Garcia-Rodriguez, Mercedes; Salazar, Jordi; Turo, Antoni; Chavez, Juan Antonio. S.06 Thursday 6th - 11:00 - Room R-203 ULT-15-008-IP. Limited diffraction Bessel Transducers Moreno Eduardo S.06 Thursday 6th - 11:20 - Room R-203 ULT-15-009-IP. Spatial focalization in "chaotic-cavities- transducers" with time reversal technique Pérez Nicolás; Negreira Carlos S.06 Thursday 6th - 11:40 - Room R-203 ULT-15-010-IP. Ultrasonic device development for sewage velocity and sediment concentration measurements Anne Pallares, Farès Abda, Abdelhalim Azbaid, Denis Ensminger, Stéphane Fischer, Pierre Francois, Philippe Schmitt S.07 Thursday 6th - 15:00 - Room R-203 ULT-15-011-IP. Ultrasonic transduction system for imaging with a low number of transducers located at different planes Rodríquez, Miquel A.; Ramos, Antonio; San Emeterio, José L. S.07 Thursday 6th - 15:20 - Room R-203 Circuital modelling in transient regime of ultrasonic transceivers for imaging and detection ULT-15-012-IP. including non-ideal behaviours Ruíz, Abelardo; Ramos, Antonio; San Emeterio, José Luis; Sanz, Pedro Tomas S.07 Thursday 6th - 15:40 - Room R-203 ULT-15-013-IP. Non destructive testing and evaluation of heterogeneous solids using non linear ultrasonics and acoustic emission: Towards the assessment of the material remaining Rachid El Guerjouma, Mourad Bentahar, Hanane Nechad, Anne Marec, Jean-Hugh Thomas S.07 Thursday 6th - 16:00 - Room R-203 ULT-15-014. Time domain analysis of ultrasonic signals for non-invasive temperature estimation Salido Ricardo, Bazan Ivonne, Ramos Antonio, Vera Arturo, Leija Lorenzo S.07 Thursday 6th - 16:20 - Room R-203 ULT-15-015. Design of a pulsed wave Doppler ultrasound blood flow detector for cardiovascular applications Fuentes-Cruz, Martín; Solano-González, Julio; García-Nocetti, Fabián Poster - Thursday 6th afternoon - Board 12 ULT-15-016. Extension of the MOT model for radial modes of piezoelectric ceramics exhibiting Bessel polarizations Calás H.; Pérez-Fernández L.D.; Figueredo J.; Moreno E.; Eiras J.A.; Leija L. Poster - Thursday 6th afternoon - Board 13

ULT-15-017. Non-destructive ultrasonic test of orange dehydration

Camarena, Francisco; Hemsel, Tobias; Espinosa, Víctor; Twiefel, Jens; Ardid, Miquel;

Martínez-Mora, Joan; Gandia, Joan Babtiste Poster - Thursday 6th afternoon - Board 14

ULT-15-018. A new approach to modelling Lamb waves beam generated in laminate plates using coupled

ultrasonic transducers

H.B. Kichou, J.A. Chavez, J. Salazar, A. Turo, M.J. Garcia-Hernandez

Poster - Thursday 6th afternoon - Board 15

ULT-15-019. Manufacturing and experimental investigation of 2-2 piezocomposite transducer arrays

Adriano Alippi; Angelo Biagion; Francesco Paolo Branca; Franco Marinozzi;

Fabiano Bini; Federico Patanè

Poster - Thursday 6th afternoon - Board 16

ULT-16 - Ultrasound contrast agents

Session Organizers: Thomas J. Matula; M. Versluis

ULT-16-001. Recent developments in theoretical modeling of microbubble contrast agents

Charles C. Church

S.07 Thursday 6th - 16:40 - Room R-203

ULT-16-002-IP. Combined optical and acoustical characterization of individual US contrast microbubbles

Sijl, Jeroen; Vos, Rik; de Jong, Nico; Lohse, Detlef; Versluis, Michel

S.07 Thursday 6th - 17:00 - Room R-203

ULT-16-003-IP. Engineering Microbubble Agents for Enhanced Detectability in Therapeutic Applications

Stride, Eleanor; Eckersley, Robert; Chetty, Kevin; Sennoga, Charles

S.07 Thursday 6th - 17:20 - Room R-203

ULT-16-004-IP. Polymer-shelled gas containing capsules for ultrasound mediated drug delivery

Böhmer, Marcel; Chlon, Ceciel; Guédon Constant; Shi, William; Hall, Christopher; Schmidt, Brian;

van Wamel, Annemieke; Kooiman, Klazina; Emmer, Marcia; and de Jong; Nico

S.07 Thursday 6th - 17:40 - Room R-203

ULT-16-005-IP. Polymer-shelled contrast agents excited with 40-MHz ultrasound

Jeffrey A. Ketterling; Jonathan Mamou S.08 Friday 7th - 09:00 - Room R-203

ULT-16-006. 3D optical micromanipulation of ultrasound contrast agents: bubble-wall and bubble-bubble interactions

Overvelde, Marlies; Garbin, Valeria; Dollet, Benjamin; Cojoc, Dan; Ferrari, Enrico; De Jong, Nico;

Di Fabrizio, Enzo; Lohse, Detlef; Versluis, Michel

S.08 Friday 7th - 09:20 - Room R-203

ULT-16-007-IP. Cavitation Biology and the Safety of Contrast-Aided Diagnostic Ultrasound

Douglas L. Miller

S.08 Friday 7th - 09:40 - Room R-203

ULT-16-008-IP. Experimental investigation of thermal response of the backscatter from ultrasound contrast

agent by means of a commercial clinical ultrasound equipment

Adriano Alippi; Andrea Bettucci; Angelo Biagioni; Francesco Paolo Branca; Franco Marinozzi;

Fabiano Bini; Federico Patanè; Francesco Repanotti

S.07 Thursday 6th - 18:00 - Room R-203

ULT-17 - ULT-General

ULT-17-001. Modelling of ultrasonic testing of cracks in claddings

Boström, Anders

S.05 Wednesday 5th - 15:00 - Room R-204

ULT-17-002. A Virtual Instrument for Measurement and Visualization of Acoustic Pressure Field

from Ultrasound Transducers

Alvarenga, A.V.; Costa-Felix,R.P.B.; Oliveira, E.G. S.O5 Wednesday 5th - 15:20 - Room R-204

ULT-17-003. Acquisition of ultrasound signals for flour products testing J. García-Álvarez, M. Gómez, A. Turó, J.A. Chávez, M.J. García, J. Salazar S.05 Wednesday 5th - 15:40 - Room R-204 ULT-17-004. Interaction of Gaussian laser beam with the ultrasonic wave of cylindrical symmetry Ireneusz Grulkowski; Dawid Jankowski; Piotr Kwiek S.05 Wednesday 5th - 16:00 - Room R-204 ULT-17-005. Acoustical Properties of Binary Mixtures of Heptane with Ethyl acetate and Butyl acetate Manisha Gupta, Divya Shukla, Shashi Singh, Shahla Parveen and J.P. Shukla S.05 Wednesday 5th - 16:20 - Room R-204 ULT-17-006 Acoustical, optical and thermodynamical investigation of ternary mixtures of Cyclohexanone + Heptane + Hexane using an ultrasonic technique Irudayaraj Johnson S.05 Wednesday 5th - 16:40 - Room R-204 ULT-17-007. Ultrasonic study of Intermediate-valent Intermetallic YBAI2 at different physical conditions P.K. Yadawa, R. R. Yadav S.05 Wednesday 5th - 17:00 - Room R-204 ULT-17-008. Comparison between the methods of the norm L1, L2, hilbert transform and phase analysis to obtain the time of flight of ultrasonic signals Castellanos, Luis; Vera, Arturo; Ramos, Antonio; Rodríguez, Miguel; Leija, Lorenzo S.05 Wednesday 5th - 17:20 - Room R-204 ULT-17-009 Ultrasound characterization of energetic materials Cobb, W. N. S.05 Wednesday 5th - 17:40 - Room R-204 ULT-17-010. Comparison of experimental results and numerical calculations of ultrasonic waves scattering on a model of artery Wojcik, Janusz; Powalowski, Tadeusz; Trawinski, Zbigniew S.08 Friday 7th - 10:00 - Room R-203 ULT-17-011. Ultrasonic properties of quaternary alloys R.R.Yadav, A.K.Yadav S.08 Friday 7th - 10:20 - Room R-203 ULT-17-012. Refracto-vibrometry - aconvenient method for visualizing ultrasound Zipser, Lothar; Franke, Heinz S.08 Friday 7th - 10:40 - Room R-203 ULT-17-013. Measurements of the elastic moduli of laminated composites using ultrasonic technique Elhabak, A. M.; Adly, M.; Gharieb, A. Ali S.08 Friday 7th - 11:00 - Room R-203 ULT-17-014. Modeling and optimisation of an ultrasonic generator Coutard, Frédéric; Schweitzer, Patrick; Tisserand, Etienne S.08 Friday 7th - 11:20 - Room R-203 ULT-17-015. Detection of delamination defects in carbon fiber using ultrasonic signal processing Abdessalem Benammar, R.Drai, A.Kechida, A.Guessoum S.08 Friday 7th - 11:40 - Room R-203 ULT-17-016. Tactile displaying method using ultrasonic vibrator for controlling sense of roughness and softness Atsushi, Tazo; Takashi, Maeno Poster - Thursday 6th afternoon - Board 17

ULT-17-017. Resonance-based acoustic technique applied to the determination of young's modulus in granites

Del Río, Luis Mariano; López, Felicísima; Calleja, Beatriz; Tejado, Juan José; Mota, Mª Isabel;

González, Israel; San Emeterio, José Luis; Ramos, Antonio

Poster - Thursday 6th afternoon - Board 18

ULT-17-018. An ultrasound study of concrete hardening in construction pillars

Del Río, Luís Mariano; López, Felicísima; Pareja, Consuelo; Calleja, Beatriz

Poster - Thursday 6th afternoon - Board 19

ULT-17-019. Theoretical and experimental study of the ultrasonic propagation in solid polymers

Maghlaoui, Nadir; Hakim ,Djelouah ; Tarek, Boutkedjirt

Poster - Thursday 6th afternoon - Board 20

ULT-17-020. Finite-difference time-domain simulation of ultrasonic wave propagations through cancellous bone

with various trabecular structures

Hosokawa, Atsushi

Poster - Thursday 6th afternoon - Board 21

ULT -17-021. Nondestructive sum frequency vibro-acoustography imaging

Mitri, Farid G.; Fatemi, Mostafa

Poster - Thursday 6th afternoon - Board 22

ULT-17-022. Quality control of liquid pigment-based suspensions using ultrasounds

Sierra, Carlos; Resa, Pablo; Elvira, Luis Poster - Thursday 6th afternoon - Board 23

ULT-17-023. Asymmetric collapse process of a bubble adhered to quartz glass; optical observation

using high-speed video camera

Yoshida, Kenji; Fujikawa, Takaaki; Nakatani, Shintaro; Watanabe, Yoshiaki

Poster - Thursday 6th afternoon - Board 24

UNW - Underwater

UNW-01 - Inversion method in underwater acoustics

Session Organizer: Sergio Jesus

UNW-01-001-IP. Geoacoustic Inversion in Range dependent Shallow Water Environments

Chapman, N. Ross; Jiang, Yongmin S.01 Monday 3rd - 15:00 - Room R-103

UNW-01-002. Bottom parameters estimation from low frequency signals in shallow water

Li, Fenghua; Zhang Renhe

S.01 Monday 3rd - 15:20 - Room R-103

UNW-01-003. Inversion techniques in fish size estimation

Moszynski, Marek

S.01 Monday 3rd - 15:40 - Room R-103

UNW-01-004. Acoustic monitoring of environmental variability induced by storm on shelf of the Black Sea:

internal bore observation

Kuryanov, Boris; Serebryany, Andrey S.01 Monday 3rd - 16:00 - Room R-103

UNW-01-005. Sound Intensity in ships noise measuring

Eugeniusz Kozaczka; Gra_yna Grelowska; Ignacy Gloza

S.01 Monday 3rd - 16:20 - Room R-103

UNW-02 - Scattering

Sesion Organizer: Guillermo Gaunaud; Hanson Huang

UNW-02-001-IP. New passive non-scattering and absorbing coatings

of higher efficiency Bobrovnitskii, Yuri

S.01 Monday 3rd - 16:40 - Room R-103

UNW-02-002. Control of Focused Pulse in Adaptive Time-Reversal Processing

Y.H. Byun, J.S.Kim, J.H.Cho

S.01 Monday 3rd - 17:00 - Room R-103

UNW-02-003. Internal solitons in the sea and some acoustic effects caused by them: findings of the last years

Serebryany, Andrey; Rybak, Samuil; Galybin, Nikolay; Tarasov, Leonid; Okhrimenko, Nikolay;

Aredov, Aleksander

S.01 Monday 3rd - 17:20 - Room R-103

UNW-02-004. Coherence function of a low-frequency sound field in an oceanic waveguide

with random inhomogeneities

Voronovich, Alexander, Ostashev, Vladimir S.01 Monday 3rd - 17:40 - Room R-103

UNW-02-005. Relation between aperture diameter and incident angle of underwater acoustic lens

Nobuyuki Endoh, Sayuri Matsumoto, Takenobu Tsuchiya, Tetsuo Anada

S.02 Tuesday 4th - 09:00 - Room R-103

UNW-02-006. Numerical application of nonuniform pseudo-spectral time-domain (PSTD) method

for acoustic scattering on randomly rough ocean surface Ha, Yonghoon; Lee, Keunhwa; Seong, Woojae; Park, Cheolsoo Poster - Thursday 6th afternoon - Board 25

UNW-02-007. Acoustic radiation from the extremity of a fluid loaded tube

Haumesser, Lionel; Léon, Fernand

Poster - Thursday 6th afternoon - Board 26

UNW-03 - Seafloor characterization, imaging and GIS

Organizer: Andrzej Stepnowski

UNW-03-001-IP. Challenges in seafloor characterisation: from point to map

Blondel, Philippe

S.02 Tuesday 4th - 09:20 - Room R-103

UNW-03-002-IP. Estimation of sea floor parameters by modal arrival measurements using data

from a laboratory experiment

Panagiotis Papadakis, Michael Taroudakis S.02 Tuesday 4th - 09:40 - Room R-103

UNW-03-003. Application of angular dependence of sonar echo features in seafloor

characterisation and imaging

Lubniewski, Zbigniew; Bikonis, Krzysztof; Chybicki, Andrzej; Stepnowski, Andrzej

S.02 Tuesday 4th - 10:00 - Room R-103

UNW-03-004. Difficulties and opportunities facing the development of an open source approach

for seabed habitat classification using acoustic data

Noela Sánchez-Carnero, Cristina Bernárdez, Marek Moszy ski, Juan Freire

S.02 Tuesday 4th - 10:20 - Room R-103

 $\mathsf{UNW}-\mathsf{General}$

 ${\tt UNW-04-001-IP.\ Underwater\ sound\ propagation\ modeling\ under\ conditions\ including\ inhomogeneous\ current}$

Brecht, Dieter

S.02 Tuesday 4th - 10:40 - Room R-103

UNW-04-002. Numerical analysis of pressure fields of acoustic lens by method of parabolic equation

C.P. Chen; T. Tsuchiya; T. Anada; N. Endoh; S. Matsumoto

S.02 Tuesday 4th - 11:00 - Room R-103

UNW-04-003. Correcting subtle environmental measurement errors with BEAR to reduce errors

in predicted transmission loss

Pflug, Lisa A.; DelBalzo, Donald R.; Rike, Erik R.

S.02 Tuesday 4th - 11:20 - Room R-103

DelBalzo, Donald R.; Grant, Kevin P.; Rike, Erik R.; and Pflug, Lisa A. S.02 Tuesday 4th - 11:40 - Room R-103 UNW-04-005. Tactical Planning with Genetic Algorithms for Multi-static Active Sonobuoy Systems George, Chacko; DelBalzo, Donald R. S.03 Tuesday 4th - 15:00 - Room R-103 UNW-04-006. On countermeasures to underwater acoustic network Yangze Dong; Pingxiang Liu S.03 Tuesday 4th - 15:20 - Room R-103 UNW-04-007. Ambient noise near the sea-route Li, Zhenglin; He, Li; Zhang, Renhe; Peng, Zhaohui S.03 Tuesday 4th - 15:40 - Room R-103 UNW-04-008. An experimental study on measuring and localizing propeller noises behind a body in a cavitation tunnel Park, Cheolsoo; Seol, Hanshin; Cho, Yongjin S.03 Tuesday 4th - 16:00 - Room R-103 UNW-04-009 A modal representation of underwater sound propagation by a moving airborne source Peng, Zhaohui; Li, Hui S.03 Tuesday 4th - 16:20 - Room R-103 UNW-04-010. Phase fluctuations of the sound field due to internal waves in shallow water B.G. Katsnelson; A.V. Tshoidze S.03 Tuesday 4th - 16:40 - Room R-103 UNW-04-011. Gas void fraction estimation in gassy sand sediment with difference frequency wave method Byoung-Nam, Kim; Suk Wang, Yoon S.03 Tuesday 4th - 17:00 - Room R-103 UNW-04-012. Reconstruction of low frequency pulse waveform with waveguide invariant and its application Zhang, Renhe; Li, Fenghua S.03 Tuesday 4th - 17:20 - Room R-103 UNW-04-013. Analysis of characteristices of sound propagation in the Antarctic ocean using ray theory Tsuchiya, Takenobu; Anada, Tetsuo; Matsumoto, Sayuri; Ushio, Shuki; Endoh, Nobuyuki S.03 Tuesday 4th - 17:40 - Room R-103 UNW-04-014. Acoustic positioning system for underwater neutrino telescopes Ardid, M.; Bou-Cabo, M.; Martínez-Mora, J.A.; Espinosa, V.; Camarena, F.; Ramis, J.; Alba, J.; Sánchez-Morcillo, V.J.; Redondo, J.; Ferri, M. Poster - Thursday 6th afternoon - Board 27 UNW-04-015. Development of underwater acoustic surveillance system Kuramoto, Kazuoki; Kurashige, Yoshinori; Tanaka, Takahiro; Asada, Akira; Maeda, Fumitaka; Kawashima, Yoshinobu; Nanri, Mitsuhiko; Imai, Ryusuke; Hantani, Kazuhiro Poster - Thursday 6th afternoon - Board 28 UNW-04-016. Numerical and Experimental Study on the Marine Propeller Noise Seol, Hanshin; Park, Cheolsoo Poster - Thursday 6th afternoon - Board 29 UNW-04-017. Robust focusing with adaptive time reversal processing in an ocean waveguide Shin, KeeCheol; Kim, DukYung; Park, JinO; Kim, JeaSoo Poster - Thursday 6th afternoon - Board 30

Non-standard Grid Structures for Efficient Transmission Loss Calculations with EAGLE

UNW-04-004.

10.4. Noise Policy Workshop "Education in Noise Control Engineering"

Tuesday 4th - Room L-202

Morning Session:

- 09.00 Chairs' Opening
- 09.15 France Etienne Parizet "EDSVS: European grants for Ph.D. students"
- 09.30 Belgium Gerrit Vermeir "Education in acoustics in an applied building engineering context: a challenging task"
- 09.45 U. K. Phil Nelson "Acoustical engineering: An ideal first degree"
- 10.00 Turkey Mehmet Caliskan "Noise control education in developing countries: Turkish experience"
- 10.15 Break
- 10.30 Switzerland Kurt Eggenschwiler "Education in noise control engineering with the limited support of universities"
- 10.45 Czech Republic Ondrej Jiricek "Acoustics and noise control education in the Czech Republic"
- 11.00 Ukraine Oleksandr Zaporozhets "Studies in Environmental Noise Monitoring"
- 11.15 Discussion
- 12.00 Plenary Lecture
- 13.00 Lunch Break

Afternoon Session:

- 15.00 Spain Jordi Romeu "How can the EU Directive boost noise control education in Spain: present situation"
- 15.15 Italy Luigi Maffei "Post-graduate university education in noise control engineering in Italy"
- 15.30 Sweden Tor Kihlman "MSc programs in sound and vibration in Sweden"
- 15.45 Finland Kari Pesonen "Noise control education in Finland"
- 16.00 Norway Peter Svensson "Education in noise control engineering with a Norwegian flavor"
- 16.15 Break
- 16.30 The Netherlands Diemer de Vries `Noise control education in The Netherlands: a survey"
- 16.45 Germany Gerhard Hübner "The Goal of Education in Machinery Acoustics-Quiet Products without Price Increases"
- 17.00 Discussion