



**FORUM ACUSTICUM SEVILLA 2002  
TECHNICAL PROGRAMME**

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How to find data of the presentation of a paper at  
**FORUM ACUSTICUM SEVILLA 2002**

**Easiest way:**

**Go to TECHNICAL PROGRAMME and use SEARCH; you will find there the data of a presentation: Thematic area, structured session, code of the paper, title, author(s) name(s), day, time of the presentation and room.**

## SUBJECT CLASSIFICATION CRITERIA

The **Invited Papers –IP-** and **Contributed Papers** are distributed in **12 Thematic Areas** and **16 Structured Fields**, which are included in the different Thematic Areas (see next section).

The **Structured Fields** comprise **56 Structured Sessions –SS-** on specific topics, and within each SS are included, at the beginning, the **Invited Papers –IP-**, followed by the **Contributed Papers**.

The **Joint EAA TC-RBA & CIB Meeting** is included at the end of the SS-Field: RBA- Room and Building Acoustics, as an independent SS.

The Contributed Papers not classified in the specific topics of the SS have been included in each of the **Thematic Areas** in the **10 General Sessions**

### Identification Paper Codes:

- **Structured 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 two digits that indicate the order in the SS, inside the Field
- **PAPERS**, the reference of each paper is composed by the code (three letters and two numbers) of the Structured Sessions, followed by three digits that indicate the order of presentation of the paper in the Structured Session
- **Invited Papers –IP-**, the invited papers included in the different Structured Sessions, have the initials **IP** after the paper code
- **Example: RBA-01-005-IP** This paper is included:  
In the SS, **RBA- Room and Building Acoustics**  
First Session in this Field: **01- Acoustics of Opera House**  
**005-IP:** Invited paper that will be in the 5<sup>th</sup> place in the SS-RAB-01

The **Technical Sessions** will be held in parallel, morning and afternoon, from Tuesday 17th September until Thursday 19th September, and in the morning of Friday 20th.

*Sessions Chairs will be instructed to follow the printed time schedule strictly, both to be fair to all participants and to permit attendees to move from one session to another to attend a specific paper. If an author is not present to deliver the oral paper presentation, the Session Chair will be asked either to call for additional discussion of papers already given and to the specific topic of the SS, or to declare a short recess, so that subsequent papers are not given ahead of the scheduled times*

# STRUCTURED AND GENERAL SESSIONS

## **ARC- ARCHITECTURAL ACOUSTICS**

### **SS-RBA- ROOM AND BUILDING ACOUSTICS**

- [RBA-01-](#) Acoustics of Opera Houses
- [RBA-02-](#) Concert Hall Acoustics
- [RBA-03-](#) In-situ Measurements of Acoustic Properties of Surfaces
- [RBA-04-](#) Sound Insulation of Multi-family Dwellings
- [RBA-05-](#) Worship Building Acoustics
- [RBA-06-](#) Scattering in Room Acoustics
- [RBA-07-](#) Sound Insulation at Low Frequencies
- [RBA-08-](#) Classroom Acoustics
- [RBA-CIB-](#) Actual Problems of Building Acoustics Joint EAA TC-RBA & CIB Meeting

[ARC-Gen-](#)Architectural Acoustics – General

## **EDU- EDUCATION IN ACOUSTICS**

### **SS-EDU- EDUCATION IN ACOUSTICS**

- [EDU-01 -](#) Education in Acoustics

## **ELE- ELECTRO-ACOUSTICS AND INSTRUMENTATION**

### **SS-ELE- ELECTRO-ACOUSTICS AND SIGNAL PROCESSING**

- [ELE-01-](#) Active Noise Control
- [ELE-02-](#) Signal Processing
- [ELE-03-](#) Simulation of Sound Fields and Virtual Reality in Acoustics
- [ELE-04-](#) Sound Quality and Auralisation
- [ELE-05-](#) Transducers

[ELE-Gen-](#)Electro-Acoustics and Instrumentation – General

## **ENV- ENVIRONMENTAL ACOUSTICS, NOISE AND VIBRATION**

### **SS-MAT- ACOUSTIC MATERIALS**

- [MAT-01-](#) Absorbing Materials

### **SS-NOI- NOISE**

- [NOI-01-](#) Aircraft Noise
- [NOI-02-](#) Environmental Noise Policy
- [NOI-03-](#) High Speed Trains
- [NOI-04-](#) Long-term Evaluation of Environmental Noise
- [NOI-05-](#) Psychosomatic Effects of Noise
- [NOI-06-](#) Road Traffic Noise
- [NOI-07-](#) Soundquality and Soundscapes

### **SS-OSP- OUTDOOR SOUND PROPAGATION**

- [OSP-01-](#) Sound Propagation in the Atmosphere

## **SS-STA- STRUCTURAL ACOUSTICS**

STA-01- Structural Acoustics

ENV-Gen-Environmental Acoustics, Noise and Vibration – General

## **MUS- MUSICAL ACOUSTICS**

### **SS-MUS- MUSICAL ACOUSTICS**

MUS-01- Perception and Recognition of Music

MUS-02- Acoustical and Perceptual Enhancement of Audio Recording

MUS-03- Singing Styles on the Earth Ancient Instruments

MUS-04- Sound Mechanisms of Wind Instruments

MUS-05- Sound Reproduction, Coding and Quality

MUS-06- Physical Models and Virtual Musical Instruments

MUS-Gen-Musical Acoustics- General

## **NUM- NUMERICAL AND GENERAL LINEAR ACOUSTICS**

### **SS-NUM- NUMERICAL AND GENERAL LINEAR ACOUSTICS**

NUM-01- Numerical Modelling of Tyre/Road Noise

NUM-02- Computational Room Acoustics

NUM-03- Advances and Applications of Computational Methods for Sound Radiation and Scattering

NUM-04- Numerical Modelling of Voice Acoustics

NUM-05- Recent Advances in Computational Acoustics

NUM-06- Special Topics in Numerical Acoustics

NUM-07- New Iterative Methods for Finite Element and Finite Difference Simulations

NUM-08- Boundary Element Methods in Acoustics

NUM-Gen-Numerical and General Linear Acoustics –General

## **PHA- PHYSICAL ACOUSTICS**

### **SS-NON- NON-LINEAR ACOUSTICS**

NON-01- Cavitation

NON-02- Non-linear Methods in Evaluation of Materials

### **SS-PHA- PHYSICAL ACOUSTICS**

PHA-01- Acoustics of Dispersed Particulate Matter

PHA-Gen-Physical Acoustics –General

## **PPA- PHYSIOLOGICAL, PSYCHOLOGICAL ACOUSTICS AND BIOACOUSTICS**

### **SS-HEA- HEARING AND AUDIOLOGY**

HEA-01- Animal Bioacoustics

HEA-02- Frequency and Temporal Information in the Auditory System

HEA-03- Spectro-temporal Signal Processing

### **SS-PSY- PSYCHOACOUSTICS**

PSY-01- Physiological Basis of Auditory Perception

PSY-02- Binaural Hearing and Spatial Perception

PSY-03- Virtual and Real Auditory Environments-auditory Displays

PSY-04- Applications of Psychoacoustics

PSY-05- Audio-visual Interaction

PPA-Gen-Physiological, Psychological Acoustics and Bioacoustics – General

## **SPA- SPEECH AND COMMUNICATION ACOUSTICS**

### **SS-SPE- SPEECH**

SPE-01- Physical and Mathematical Models of Speech Production

SPA-Gen-Speech and Communication Acoustics – General

## **STD - STANDARDIZATION**

STD-Gen-Standardization - General

## **ULT- ULTRASONICS**

### **SS-ULT- ULTRASONICS**

ULT-01- Biomedical Ultrasonics

ULT-02- High Power Ultrasonic and its Applications

ULT-03- Non Destructive Testing: Systems and Applications; Quality Control

ULT-04- Transducer Systems

ULT-05- Ultrasonics in Food Processing

ULT-Gen-Ultrasonics –General

## **UNW- UNDERWATER ACOUSTICS**

### **SS-UNW- UNDERWATER ACOUSTICS**

UNW-01- Underwater Acoustics

# TECHNICAL PROGRAMME

## KL - KEYNOTE LECTURES

- KL-01**      **The EU noise policy and its research needs**  
*Dr. Tjeert Ten Wolde*  
TNO TPD – Delft, The Netherlands  
Monday 16th, 19:30 h, La Cartuja
- KL-02**      **Phenomena, theory and applications of near-field acoustic levitation**  
*Prof. Sadayuki Ueha*  
Precision and Intelligence Laboratory, Tokio Institute of Technology,  
Yokohama, Japan  
Tuesday 17th, 12:30 h. Auditorium
- KL-03**      **Speech quality in modern telecommunications**  
*PD Dr Phil. Ute Jekosch*  
Ruhr-University, Bochum, Germany  
Wednesday 18th, 12:30 h. Auditorium
- KL-04**      **Modelling in auditorium acoustics – from ripple tank and scale models to computer simulations**  
*Ass Prof. Dr. Jens Holger Rindel*  
Technical University of Denmark, Lyngby, Denmark  
Thursday 19th, 12:30 h, Auditorium
- KL-05**      **Macrosonics: phenomena, transducers and applications**  
*Prof. Juan A. Gallego-Juárez*  
Institute of Acoustics, CSIC, Madrid, Spain  
Friday 20th, 12:30 h, Auditorium

## GENERAL SS-COORDINATORS

### GC-SS-FAS- FORUM

*Vorländer, Michael; Santiago, J. Salvador*

### GC-SS-SYM- SYMPOSIUM

*Fastl, Hugo; García, Amando; Kuwano, Sonoko*

### GC-RBA-CIB- JOINT EAA TC RBA AND CIB MEETING

*Vorländer, Michael; Cortés, Azucena; Roland, Jacques*

## ARC - ARCHITECTURAL ACOUSTICS

### RBA - ROOM AND BUILDING ACOUSTICS

*SS-Fiel Coordinators: Vorländer, Michael; Díaz, César*

#### RBA-01 - ACOUSTICS OF OPERA HOUSES

*SS-Co-Chairs: Pompoli, Roberto; Arau, Higini*

- RBA-01-001-IP Modelling the direction-specific build-up of the precedence effect**  
*Thomas Djelani, Jens Blauert*  
Tuesday 17th, 09:00, Room 1
- RBA-01-002-IP On the objective parameter of texture**  
*Takayuki Hidaka*  
Tuesday 17th, 09:20, Room 1
- RBA-01-003-IP Acoustic measurements in the “Teatro Verdi” in Salerno (Italy)**  
*Gino Iannace, Carmine Ianniello, Luigi Maffei, Rosario Romano*  
Tuesday 17th, 09:40, Room 1
- RBA-01-005-IP The acoustics design of the Eskalduna Palace**  
*Higini Arau Puchades*  
Tuesday 17th, 10:00, Room 1
- RBA-01-006-IP Stage set and acoustics in a baroque-type opera house**  
*Gino Iannace, Carmine Ianniello, Luigi Maffei, Rosario Romano*  
Tuesday 17th, 10:20, Room 1
- RBA-01-007-IP Acoustical measurements in ancient greek and roman theatres**  
*Shin-ichi Sato, Hiroyuki Sakai, Nicola Prodi*  
Tuesday 17th, 10:40, Room 1
- RBA-01-008-IP The acoustical comfort in the pit of the Grand Theatre of Bordeaux**  
*Catherine Semidor*  
Tuesday 17th, 11:00, Room 1
- RBA-01-009-IP Improvements in the acoustics optimization of the Strehler theatre**  
*Filippo Beltramini, Stefano Cera, Elio Sindoni, Giovanni Zambon*  
Tuesday 17th, 11:20, Room 1



**RBA-01-010-IP The acoustics of the municipal theatre in Modena**  
*Nicola Prodi, Roberto Pompoli, Linda Parati*  
Tuesday 17th, 11:40, Room 1

**RBA-02 - CONCERT HALL ACOUSTICS**

*SS-Co-Chairs: Blauert, Jens; Arau, Higini; Morimoto, Masayuki*

**RBA-02-001-IP Effects of frequency characteristics of reverberation time on listener envelopment**  
*Masayuki Morimoto, Munehiro Jinya, Koichi Nakagawa, Kimihiro Sakagami*  
Tuesday 17th, 15:30, Room 1

**RBA-02-002-IP Contribution of directional energy components of late sound to listener envelopment**  
*Hiroshi Furuya, Akiko Wakuda, Ken Anai, Kazutoshi Fujimoto*  
Tuesday 17th, 15:50, Room 1

**RBA-02-003-IP Effects of early reflections on listener envelopment**  
*Toshiki Hanyu, Katsuaki Sekiguchi, Yuki Koizumi*  
Tuesday 17th, 16:10, Room 1

**RBA-02-004-IP Experimental study on the evaluation of stage acoustics by music players using 6-channel sound simulation system**  
*Kanako Ueno, Hideki Tachibana*  
Tuesday 17th, 16:30, Room 1

**RBA-02-005-IP Evaluating stage sound field for acoustic design based on boundary element method**  
*Masahiro Ikeda, Shinji Kishinaga, Fukushi Kawakami*  
Tuesday 17th, 16:50, Room 1

**RBA-02-006-IP Difference limens for measures of apparent source width**  
*Matthias Blau*  
Tuesday 17th, 17:10, Room 1

**RBA-02-007-IP Spectral and temporal contribution of different signals to ASW analyzed with binaural hearing models**  
*Jörg Becker-Schwitzer*  
Tuesday 17th, 17:30, Room 1

**RBA-02-008-IP Uncertainties of measured parameters in room acoustics caused by the directivity of source and/or receiver**  
*Gottfried K. Behler*  
Tuesday 17th, 17:50, Room 1

**RBA-02-009-IP Synopsis of reverberation enhancement systems**  
*Olivier Warusfel, Jens Blauert, David Wessel*  
Tuesday 17th, 18:10, Room 1

**RBA-02-010-IP Multi-purpose halls and variable acoustics**  
*Rafal Orłowski*  
Wednesday 18th, 09:00, Room 1

**RBA-02-011-IP The acoustic design of the Kursaal Center**  
*Higini Arau Puchades*  
Wednesday 18th, 09:20, Room 1

- RBA-02-012-IP Casa da Música - Porto**  
*L.C.J Van Luxemburg, C.C.J.M Hak, H.J Martin, B.H.M Kok, K.B.A Bijsterbosch*  
 Wednesday 18th, 09:40, Room 1
- RBA-02-013-IP Room acoustic quality of a multipurpose hall: a case study**  
*Maria Rosa Sá Ribeiro*  
 Wednesday 18th, 10:00, Room 1
- RBA-02-014 Directional characteristics of late sounds in concert auditoria**  
*Akiko Wakuda, Hiroshi Furuya, Ken Anai, Kazutoshi Fujimoto*  
 Wednesday 18th, 10:20, Room 1
- RBA-02-015 Acoustics and theater rehabilitation in Andalusia**  
*A.L. León Rodríguez, J. Navarro Casas, J.J. Sendra Salas, T. Zamarreño*  
 Wednesday 18th, 10:40, Room 1
- RBA-02-017 Acoustic properties of an old stone atrium used for concerts**  
*Kristian Jambrosic, Bojan Ivancevic, Marjan Sikora*  
 Wednesday 18th, 11:00, Room 1
- RBA-02-018 Acoustic improvement of the indoor stadium in Genoa**  
*Davide Foppiano, Corrado Schenone, Francesco Tomasinelli*  
 Wednesday 18th, 11:20, Room 1
- RBA-02-020 University of Milan's auditoria: analysis and comparison**  
*Filippo Beltramini, Elio Sindoni, Giovanni Zambon*  
 Wednesday 18th, 11:40, Room 1
- RBA-02-021 The new symphony hall in Las Palmas, Gran Canaria**  
*Jan Voetmann, Lise-Lotte W. Tjellesen, José M<sup>a</sup> Pérez Lacorzana*  
 Wednesday 18th, 12:00, Room 1

### **RBA-03 - IN-SITU MEASUREMENTS OF ACOUSTIC PROPERTIES OF SURFACES**

*SS-Co-Chairs: **Nocke**, Christian; **Garai**, Massimo*

- RBA-03-001-IP Brief review on in-situ measurement techniques of impedance or absorption**  
*Christian Nocke, Volker Mellert*  
 Wednesday 18th, 15:30, Room 1
- RBA-03-003-IP In situ sound absorption coefficient measurement of various surfaces**  
*Michel Bérengier, Massimo Garai*  
 Wednesday 18th, 15:50, Room 1
- RBA-03-004-IP Definition and first validation of a new mathematical model of polyester fibre materials**  
*Massimo Garai, Francesco Pompoli*  
 Wednesday 18th, 16:10, Room 1
- RBA-03-005-IP About the determination of the acoustical properties of surfaces 'in-situ' using the 'auto-power-density-spectra'**  
*Jörn Hübelt, Andreas Zeibig*  
 Wednesday 18th, 16:30, Room 1

## **RBA-04 - SOUND INSULATION OF MULTI-FAMILY DWELLINGS**

*SS-Co-Chairs: Grimwood, Colin; Andow, Kei; Hopkins, Carl*

- RBA-04-001-IP Floor impact sound insulation performance and it's regulation of multi-family dwellings in Japan**  
*Katsuo Inoue*  
Wednesday 18th, 16:50, Room 1
- RBA-04-002-IP Experimental study on effect of lining for flanking transmission of building facade**  
*Kei Andow, Takashi Koga*  
Wednesday 18th, 17:10, Room 1
- RBA-04-003-IP Sound insulation of dwellings - overview of legal requirements and classification schemes in europe**  
*Birgit Rasmussen*  
Wednesday 18th, 17:30, Room 1
- RBA-04-004-IP New building regulations on the resistance to the passage of sound for England & Wales**  
*Carl Hopkins, Colin Grimwood, John Seller, Philip Wright, Matthew Ling, Les Fothergill*  
Wednesday 18th, 17:50, Room 1
- RBA-04-006-IP Acoustical design of multi - family dwellings with taking into account the new polish standard requirements**  
*Anna Izweska*  
Wednesday 18th, 18:10, Room 1
- RBA-04-007-IP A method for determination of the impact source characteristics of a human walker**  
*Rainer Thaden*  
Thursday 19th, 09:00, Room 1
- RBA-04-008 A simple decoupled modal calculation of sound transmission between volumes**  
*Philippe Jean; Jean-François Rondeau*  
Thursday 19th, 09:20, Room 1
- RBA-04-009 Analytical model of lightweight floor simulation**  
*M. S. Kartous*  
Thursday 19th, 09:40, Room 1
- RBA-04-010 Comparison between sound reduction index measurement techniques**  
*Patrizio Fausti, Simone Secchi*  
Thursday 19th, 10:00, Room 1
- RBA-04-011 Transmission loss of inhomogeneous plates with local resonators: Methods of theoretical modelling**  
*Waldemar Maysenhölder*  
Thursday 19th, 10:20, Room 1
- RBA-04-012 IMMOTUS R+ plasterboard laminated sound insulation system for walls and ceilings**  
*Carlos Castro, Jean-Philippe Deblander, Henri Mispreuve*  
Thursday 19th, 10:40, Room 1

- RBA-04-013**    **Confort acústico de los forjados tradicionales**  
*M.J. De Rozas, A. Esteban, A. Cortés, S. Escudero A. De Lorenzo*  
 Thursday 19th, 11:00, Room 1
- RBA-04-014**    **Sound transmission through cross-joints in multi-family houses with lightweight, double structures and steel supporting structures – transmission models**  
*Arnold Koopman, Willem Van Gogh, Susanne Bron-van der Jagt*  
 Thursday 19th, 11:20, Room 1
- RBA-04-015**    **Sound transmission through cross-joints in multi-family houses with lightweight, double structures and steel supporting structures – measurements**  
*Susanne Bron-van der Jagt, Arnold Koopman, Constant Hak*  
 Thursday 19th, 11:40, Room 1
- RBA-04-016**    **IAPAI. Software to predict acoustic insulation in buildings in accordance with en 12354/1/2**  
*Miguel Angel Peña, Carlos de la Colina, Antonio Moreno*  
 Thursday 19th, 12:00, Room 1
- RBA-04-017**    **Sound insulation pilot project on buildings in the proximity of an airport area**  
*Fabio Scamoni, Laura Porro*  
 Thursday 19th, 15:30, Room 1
- RBA-04-018**    **The influence of the screw position in the airborne sound insulation of plasterboard-walls**  
*Herbert Muellner, Ilja Plotizin*  
 Thursday 19th, 15:50, Room 1
- RBA-04-021**    **Extending the EN-calculation model for sound transmission in buildings to heavy double walls as separating and flanking walls**  
*H.A.Metzen, D.B.Petersen, E.Sonntag*  
 Thursday 19th, 16:10, Room 1

#### **RBA-05 - WORSHIP BUILDING ACOUSTICS**

*SS-Chair: Karabiber, Zerhan*

- RBA-05-001-IP**    **Acoustic resonators in serbian orthodox churches**  
*M.Mijic, D.Sumarac-Pavlovic*  
 Tuesday 17th, 09:00, Room 2
- RBA-05-002-IP**    **Acoustics of gothic churches**  
*Jürgen Meyer*  
 Tuesday 17th, 09:20, Room 2
- RBA-05-003-IP**    **Liturgical conditions of Catholic and Reformed celebrations and their relationship with architectural and acoustical characteristics of churches**  
*Victor Desarnaulds, António P. O. Carvalho*  
 Tuesday 17th, 09:40, Room 2
- RBA-05-004-IP**    **Pitch contour analysis based on derived model**  
*Paul Micallef, Mark Anthony Sammut*  
 Tuesday 17th, 10:00, Room 2
- RBA-05-005-IP**    **The effect of ceiling shape on the acoustics of Indonesian mosques**

*Soegijanto; Henriza*  
Tuesday 17th, 10:20, Room 2

**RBA-05-006-IP Comparison of the acoustical properties of an ancient and a recent mosque**  
*Zerhan Karabiber, Sevda Erdogan*  
Tuesday 17th, 10:40, Room 2

**RBA-05-007-IP Measured acoustic parameters versus predicted ones in two mudejar-gothic churches**  
*Miguel Galindo, Teófilo Zamarreño, Sara Girón*  
Tuesday 17th, 11:00, Room 2

**RBA-05-008-IP Comparative study of various techniques to measure speech intelligibility**  
*Miguel Galindo, Teófilo Zamarreño, Sara Girón*  
Tuesday 17th, 11:20, Room 2

**RBA-05-009-IP Psycho-perceptive judgements on acoustical qualities in old turkish mosques**  
*M. Vallet, B. Vincent, C. Bertin, Z. Karabiber*  
Tuesday 17th, 11:40, Room 2

**RBA-05-010-IP The Acoustical History of Hagia Sophia revived through Computer Simulation**  
*Christoffer Andreas Weitze, Jens Holger Rindel, Claus Lyngge Christensen, Anders Christian Gade*  
Tuesday 17th, 12:00, Room 2

**RBA-05-011-IP Evolution of acoustics and effect of worship buildings on it**  
*Mutbul Kayýlý*  
Tuesday 17th, 15:30, Room 2

**RBA-05-012-IP Relation between sound field properties and architectural desing in serbian churches**  
*Dragana Sumarac-Pavlovic*  
Tuesday 17th, 15:50, Room 2

**RBA-05-014-IP Acoustics of ancient sacred and ceremonial spaces**  
*David Lubman*  
Tuesday 17th, 16:10, Room 2

**RBA-05-015 Church acoustics**  
*Marcos Fernández, Manuel Recuero, David Cruz*  
Tuesday 17th, 16:30, Room 2

**RBA-05-016 On the measurement of binaural acoustic parameters in some romanesque churches**  
*Ettore Cirillo; Francesco Martellotta*  
Tuesday 17th, 16:50, Room 2

**RBA-05-017 Acoustical measures in historical buildings at the example of the Cathedral of Nürtingen**  
*Armin Egenter, Helmut Barth*  
Tuesday 17th, 17:10, Room 2

**RBA-05-018 Coupling effects in christian churches: Preliminary analysis based on a simple theoretical model and some experimetal results**  
*A. Magrini, P. Ricciardi*  
Tuesday 17th, 17:30, Room 2

## RBA-06 - SCATTERING IN ROOM ACOUSTICS

SS-Chair: **Cox, Trevor**

- RBA-06-001-IP** Practical aspects of the ISO procedure for measuring the scattering coefficient in a real-scale experiment  
*Jean-Jacques Embrechts*  
Tuesday 17th, 17:50, Room 2
- RBA-06-002-IP** Aspects of the sample geometry in the measurement of the random-incidence scattering coefficient  
*Márcio H. A. Gomes, Michael Vorländer, Samir N. Y. Gerges*  
Tuesday 17th, 18:10, Room 2
- RBA-06-003-IP** The Potential for Room Acoustic Active Diffusers  
*Trevor J. Cox, Mark R. Avis, Lejun Xiao*  
Wednesday 18th, 09:00, Room 2
- RBA-06-004** Investigations on real-scale experiments for the measurement of the ISO scattering coefficient in the reverberation room  
*Lieven De Geetere, Gerrit Vermeir*  
Wednesday 18th, 09:20, Room 2
- RBA-06-005-IP** Effects of surface diffusion of reflectors on the acoustic power from the stage area  
*D. Takahashi, N. Toda, M. Toyoda*  
Wednesday 18th, 09:40, Room 2

## RBA-07 - SOUND INSULATION AT LOW FREQUENCIES

SS-Chair: **Hveem, Sigurd**

- RBA-07-001-IP** Optimisation of low frequency sound insulation for walls and floorstructures  
*Per Hammer*  
Thursday 19th, 16:30, Room 1
- RBA-07-002-IP** The inter-relation between the modal characteristics of the rooms and the separating wall, in the sound insulation between dwellings at low frequencies  
*B. Gibbs, S. Maluski*  
Thursday 19th, 16:50, Room 1
- RBA-07-003-IP** Aspects concerning light weight constructions in swedish residential building with high sound insulation (Class b according to ss 02 52 67)  
*Klas Hagberg*  
Thursday 19th, 17:10, Room 1
- RBA-07-004-IP** Studies on impact sound insulation of floors  
*Pekka Sipari*  
Thursday 19th, 17:30, Room 1
- RBA-07-005-IP** Reduction of light weight floor vibrations through a new viscoelastic damper solution and through addition of building structure elements  
*Fredrik Ljunggren, Anders Aagren, Junye Wang, Helena Knutsson*  
Thursday 19th, 17:50, Room 1

**RBA-07-006-IP Aspects concerning differences between requirements in A- and C-weighted sound pressure level caused by technical installations**  
*Eva Sjö Dahl*  
Thursday 19th, 18:10, Room 1

**RBA-08 - CLASSROOM ACOUSTICS**  
*SS-Co-Chairs: Hodgson, Murray; Díaz, César;*

**RBA-08-001 Classtalk system for predicting and visualizing speech in noise in classrooms**  
*Murray Hodgson*  
Friday 20th, 09:00, Room 1

**RBA-08-002 Acoustical quality of educational buildings**  
*Catherine Lavandier, Manon Raimbault, Danièle Dubois, Gérard Ignazi*  
Friday 20th, 09:20, Room 1

**RBA-08-003 Acoustic quality evaluation of young children's (0-6 years) spaces**  
*Christophe Louwerse, Aline Barlet, Catherine Semidor*  
Friday 20th, 09:40, Room 1

**RBA-08-005 Necesidad de pautas y normativa acústica específicas en las construcciones escolares: la Universidad de Alicante, un ejemplo**  
*M. Yebra, S. Bleda, J. Vera*  
Friday 20th, 10:00, Room 1

**RBA-08-007 Acoustic school desing**  
*Mechthild Hagen, Ludowika Huber, Joachim Kahlert*  
Friday 20th, 10:20, Room 1

**RBA-CIB - ACTUAL PROBLEMS OF BUILDING ACOUSTICS**  
**JOINT EAA-RBA & CIB MEETING**

*SS-Co-Chairs: Roland, Jacques; Cortés, Azucena;*

**RBA-CIB-001-IP Simple presentation of expected impact sound levels for a tested flooring laid on 35 standardized concrete slabs, using EN 12354**  
*Christian Simmons*  
Wednesday 18th, 10:00, Room 2

**RBA-CIB-002-IP Lightweight plasterboard walls, empirical support of the sound insulation prediction methods**  
*Jacek Nurzynski*  
Wednesday 18th, 10:20, Room 2

**RBA-CIB-003-IP Modelling aircraft noise inside dwellings**  
*Jean-François Rondeau, Philippe Jean*  
Wednesday 18th, 10:40, Room 2

**RBA-CIB-004-IP Study of simulated rainfall noise on roofs and glazings**  
*C. Guigou-Carter M. Villot, C. Horlaville*  
Wednesday 18th, 11:00, Room 2

**RBA-CIB-005-IP Modeling flanking transmissions in lightweight constructions**  
*Michel Villot*  
Wednesday 18th, 11:20, Room 2

- RBA-CIB-006-IP Can the impact sound improvement of floor coverings be measured on a wooden mock up instead of a timber joist floor?**  
*Werner Scholl*  
 Wednesday 18th, 11:40, Room 2
- RBA-CIB-007-IP Structure borne-sound excitation and transmission of lightweight stairs**  
*Heinz-Martin Fischer, Thomas Moeck, Evi Petzold, Jochen Scheck*  
 Wednesday 18th, 12:00, Room 2
- RBA-CIB-008-IP Laboratory measurement of the sound reduction index improvement by acoustical linings due only resonant transmission**  
*Carl Hopkins*  
 Wednesday 18th, 15:30, Room 2
- RBA-CIB-009-IP Effectiveness of toppings to control flanking transmission in lightweight framed floors**  
*T. R. T. Nightingale, R. E. Halliwell, J. D. Quirt*  
 Wednesday 18th, 15:50, Room 2
- RBA-CIB-010-IP Impact sound insulation: measurement and prediction in hollow constructions of the Basque Country**  
*Azucena Cortés, Robert J.M. Craik, Alberto Esteban*  
 Wednesday 18th 16:10, Room 2
- RBA-CIB-011-IP Using the structural reverberation time in standardizing laboratory measurements of the sound reduction index**  
*Eddy Gerretsen*  
 Wednesday 18th, 16:30, Room 2
- RBA-CIB-012-IP Acoustic efficiency of false ceilings: study on the influence of distance from the ceiling slab**  
*Jorge Patrício, Fernando Schiappa, Luís Bragança*  
 Wednesday 18th, 16:50, Room 2
- RBA-CIB-013-IP Alternative method for measurements of impact sound improvement on lightweight floors**  
*Hans Jonasson*  
 Wednesday 18th, 17:10, Room 2

#### **ARC-Gen - ARCHITECTURAL ACOUSTICS - GENERAL**

- ARC-Gen-001 Repeatability and reproduceability tests of airflow resistance results obtained on ITB measurement stand**  
*Pawel Tomczyk, Marek Niemas*  
 Wednesday 18th, 17:30, Room 2
- ARC-Gen-002 Comparative analysis of two acoustic simulation software**  
*R. Sanmartin, A. Vela, M.L. San Martin, M. Arana*  
 Wednesday 18th, 17:50, Room 2
- ARC-Gen-003 Experimental investigation of sound transmission through thin-walled structures due to non-uniform pressure-fluctuation fields. Part 1: subsonic flow**  
*B.M. Efimtsov, A.Yu. Golubev, A.Ya. Zverev, A.O. Andersson, S.V. Kravchenko*  
 Wednesday 18th, 18:10, Room 2



- ARC-Gen-004** **Some observations on the theoretical prediction of strength and clarity inside highly diffusing rooms**  
*Ettore Cirillo, Francesco Martellotta*  
 Thursday 19th, 09:00, Room 2
- ARC-Gen-005** **Experiences with the sonorous art**  
*Francesc Daumal i Domènech*  
 Thursday 19th, 09:20, Room 2
- ARC-Gen-006** **Consideraciones sobre la nueva reglamentación referente a la protección contra el ruido en los edificios**  
*Ana Delgado Portela*  
 Thursday 19th, 09:40, Room 2
- ARC-Gen-007** **Preliminary experimental validation of the radiosity technique for predicting room sound fields**  
*Eva-Marie Nosal, Murray Hodgson*  
 Thursday 19th, 10:00, Room 2
- ARC-Gen-008** **Determination of truncation point of room impulse response**  
*Ciric Dejan*  
 Thursday 19th, 10:20, Room 2
- ARC-Gen-009** **Acoustical rehabilitation project of the Santa María de la Mota church, in Montoro (Córdoba)**  
*R. Suárez, J.J.; Sendra, J. Navarro*  
 Thursday 19th, 10:40, Room 2
- ARC-Gen-010** **Avaliação da eficiência acústica de um edifício MBT**  
*Luis Bragança, Manuela Almeida, Sandra Silva, Jorge Patricio*  
 Thursday 19th, 11:00, Room 2
- ARC-Gen-012** **Modeling building vibrations in a wide frequency range**  
*Attila Balázs Nagy, Fülöp Augusztinovicz*  
 Thursday 19th, 11:20, Room 2
- ARC-Gen-013** **Estudio de inteligibilidad en aulas de Navarra**  
*Victoria E González Gutiérrez, José M<sup>a</sup> Pérez Lacorzana*  
 Thursday 19th, 11:40, Room 2
- ARC-Gen-014** **Consideraciones acerca del diseño acústico de conservatorios de música**  
*José María Pérez-Lacorzana, María Angeles Antón García*  
 Thursday 19th, 12:00, Room 2
- ARC-Gen-015** **Theoretic and practical review of reverberation formule for rooms with non homogenyc absorption distribution**  
*Ivana Rossell, Isabel Arnet*  
 Thursday 19th, 15:30, Room 2
- ARC-Gen-016** **Acoustic phenomena associated to the audience**  
*Ivana Rossell, Cristina Vicent*  
 Thursday 19th, 15:50, Room 2
- ARC-Gen-017** **Investigación de nuevos sistemas de aislamiento acústico a ruido de impactos en edificación**  
*Ana Esther Espinel Valdivieso, Angel María Arenas Gombau*  
 Thursday 19th, 16:10, Room 2

## **EDU - EDUCATION IN ACOUSTICS**

SS-Field Coordinators: **Recuero**, Manuel; **Yoshihisa**, Koichi

### **EDU-01 - EDUCATION IN ACOUSTICS**

SS-Co-Chairs: **Recuero**, Manuel; **Yoshisa**, Koichi

- EDU-01-001-IP** **Education in Acoustics Using the Multime Presentation Style**  
*Yoshiro Miida, Hiroshi Suda, Yasuo Shintani*  
Friday 20th, 09:00, Room 6
- EDU-01-002-IP** **Technical listening training: improvement of sound sensitivity for acoustic engineers and sound designers**  
*Shin-ichiro Iwamiya, Yoshitaka Nakajima, Kazuo Ueda, Kazuhiko Kawahara, Masayuki Takada*  
Friday 20th, 09:20, Room 6
- EDU-01-003-IP** **Aural/visual materials for the lecture on architectural acoustics**  
*Tachibana Hideki*  
Friday 20th, 09:40, Room 6
- EDU-01-004-IP** **An effective method for education in acoustics and speech science integrating textbooks, computer simulation and physical models**  
*Takayuki Arai*  
Friday 20th, 10:00, Room 6
- EDU-01-005** **Developing mechanical models of the human vocal tract for education in speech science**  
*Noriko Saika, Eri Maeda, Nobuyuki Usuki, Takayuki Arai, Yuji Murahara*  
Friday 20th, 10:20, Room 6
- EDU-01-006** **Teaching the sound of the space**  
*Francesc Daumal i Domènech*  
Friday 20th, 10:40, Room 6
- EDU-01-007** **A pedagogical utilisation of the accordion to study the vibration behaviour of free reeds**  
*R. Llanos-Vázquez, M.J. Elejalde-García, E. Macho-Stadler, J.Alonso-Moral*  
Friday 20th, 11:00, Room 6

## **ELE - ELECTRO-ACOUSTICS AND INSTRUMENTATION**

### **ELE - ELECTRO-ACOUSTICS AND SIGNAL PROCESSING**

SS-Fiel Coordinator: **Backman**, Juha

#### **ELE-01 - ACTICE NOISE CONTROL**

SS-Co-Chairs: **Elliott**, Steve; **Cobo**, Pedro; **Ise**, Shiro

- ELE-01-001-IP** **The active reflecting surface for an opening window**  
*Takahiro Nakashima, Koji Kagoshima, Shiro Ise*  
Tuesday 17th, 09:00, Room 3
- ELE-01-002-IP** **Smart cluster control of planar structures**  
*Nobuo Tanaka*  
Tuesday 17th, 09:20, Room 3

- ELE-01-003-IP Active control and porous materials**  
*Marie-Annick Galland, Nadine Sellen, Olivier Hilbrunner*  
 Tuesday 17th, 09:40, Room 3
- ELE-01-004-IP Behavior of the secondary sources and examination of the sound energy for active noise barrier**  
*Hideo Nagamatsu*  
 Tuesday 17th, 10:00, Room 3
- ELE-01-005-IP An innovative approach to spatial filtering with piezoelectric films for vibroacoustic applications**  
*André Preumont, François Arnaud, Pierre De Man*  
 Tuesday 17th, 10:20, Room 3
- ELE-01-006-IP Performance of local control equalization of periodic noise**  
*Alberto González, Miguel Ferrer, Gema Pinero, María De Diego*  
 Tuesday 17th, 10:40, Room 3
- ELE-01-007 An actively controlled double-glazed window with small pane distance**  
*André Jakob, Michael Möser*  
 Tuesday 17th, 11:00, Room 3
- ELE-01-008 Simulation of sound wave propagation in turbulent flows using a lattice-boltzmann scheme**  
*Andreas Wilde*  
 Tuesday 17th, 11:20, Room 3
- ELE-01-009 Active sound design: vacuum cleaner**  
*Markus Bodden, Heinrich Iglseder*  
 Tuesday 17th, 11:40, Room 3
- ELE-01-010 Artificial neural network algorithms for active noise control applications**  
*Alejandro Fernández Fernández, Pedro Cobo Parra*  
 Tuesday 17th, 12:00, Room 3
- ELE-01-011 Altavoces de baja frecuencia en recintos herméticos y “reflex” aplicados al control activo del ruido**  
*Manuel Siguero, Pedro Cobo*  
 Tuesday 17th, 15:30, Room 3
- ELE-01-012 Active noise control applied to buildings components**  
*Fabio Scamoni, Fabricio Valentini*  
 Tuesday 17th, 15:50, Room 3
- ELE-01-013 An optimal stack piezoelectric actuator for vibration control**  
*Veturia Chiroiu*  
 Tuesday 17th, 16:10, Room 3

## **ELE-02 - SIGNAL PROCESSING**

*SS-Chair: Kirkeby, Ole*

- ELE-02-001 A model of uncertainty calculation for the calibration of audiometers**  
*M. Ruiz, B. Feuereisen, D. Machón, M. Recuero*  
 Tuesday 17th, 16:30, Room 3
- ELE-02-002 Estimating shear loss in small acoustical cavities**

*Asta Kärkkäinen, Leo Kärkkäinen, John Cozens, Petri Soronen*  
Tuesday 17th, 16:50, Room 3

- ELE-02-003**    **Nearfield of multi-element source rating a finite amplitude wave**  
*Grazyna Grelowska, Eugeniusz Kozaczka*  
Tuesday 17th, 17:10, Room 3
- ELE-02-004**    **Optimization techniques for parametric modeling of acoustic systems and materials**  
*Matti Karjalainen, Tuomas Paatero, Miikka Tikander*  
Tuesday 17th, 17:30, Room 3
- ELE-02-005**    **Intercomparación nacional sobre verificación de sonómetros**  
*Jaime Pfretzschner*  
Tuesday 17th, 17:50, Room 3
- ELE-02-006**    **Influence of the performance parameters in transmission line loudspeaker system**  
*B. Pueo, J. Escolano, M. Romá*  
Tuesday 17th, 18:10, Room 3
- ELE-02-007**    **Influence of the azimuth misalignment on analogue tape authentication in forensic tasks**  
*Miguel Romá, Sergio Bleda, Basilio Pueo*  
Wednesday 18th, 09:00, Room 3
- ELE-02-008**    **Method for distortion measurements using pseudo-random signal**  
*Ivan Djurek, Branko Somek, Mladen Maletic*  
Wednesday 18th, 09:20, Room 3
- ELE-02-009**    **Optimizations of multi-channel binaural formats based on statistical analysis**  
*Emmanuel Rio, Olivier Warusfel*  
Wednesday 18th, 09:40, Room 3
- ELE-02-010**    **Advanced electric lumped model of a transmission line loudspeaker system**  
*Basilio Pueo, José Escolano, Miguel Romá*  
Wednesday 18th, 10:00, Room 3

### **ELE-03 - SIMULATION OF SOUND FIELDS AND VIRTUAL REALITY IN ACOUSTICS**

*SS-Co-Chairs: Karjalainen, Matti; Yamasaki, Yoshio; de Vries, Diemer*

- ELE-03-001-IP**    **Sinusoidal and envelope-modulation modeling of acoustic signals**  
*Mikio Tohyama*  
Wednesday 18th, 10:20, Room 3
- ELE-03-002-IP**    **An acoustic events modeling language (AEML)**  
*Yoshinori Takahashi; Mitsuo Matsumoto; Mikio Tohyama*  
Wednesday 18th, 10:40, Room 3

### **ELE-04 - SOUND QUALITY AND AURALISATION**

*SS-Co-Chairs: Kleiner, Mendel; de Vries, Diemer*

**No paper received at the closing of this programme**

## ELE-05 - TRANSDUCERS

SS-Chair: **Sessler, Gerhard**

- ELE-05-001**    **Noise source detection using non-orthogonal microphone array.**  
*Hajime Fujita, Hidenori Fuma, Yuhichi Katoh, Nagasawa Nobuhiro*  
Wednesday 18th, 11:00, Room 3
- ELE-05-002**    **Defining a new calibration bench for acoustical instruments**  
*G. de Arcas, M. Ruiz, M. Recuero*  
Wednesday 18th, 11:20, Room 3
- ELE-05-003**    **Resonant air-coupled capacitive transducers with transmitting and isolating rails on the backplate**  
*S. Leschka, G. Pfeifer,*  
Wednesday 18th, 11:40, Room 3

## ELE-Gen - ELECTRO-ACOUSTICS AND INSTRUMENTATION - GENERAL

- ELE-Gen-001**    **Abnormal acoustic phenomena in a cinema hall with a dolby surround sound-recording system**  
*J. Stauskis Vytautas, Gediminas Vilnius*  
Wednesday 18th, 15:30, Room 3
- ELE-Gen-002**    **Interactions of (two) closed-box loudspeaker systems mounted in different configurations**  
*Véronique Adam*  
Wednesday 18th, 15:50, Room 3
- ELE-Gen-003**    **Influence of fixation conditions on radiation of a distributed modes loudspeaker**  
*E. Escuder, J. Alba, J. Ramis*  
Wednesday 18th, 16:10, Room 3
- ELE-Gen-004**    **Calibração de microfones padrão de trabalho. Análise comparativa entre o método de substituição e o método de comparação**  
*Sónia Antunes*  
Wednesday 18th, 16:30, Room 3
- ELE-Gen-005**    **Calibração de pistão-fones. Análise comparativa entre o método de aplicação de tensão e o método de comparação**  
*Sónia Antunes*  
Wednesday 18th, 16:50, Room 3
- ELE-Gen-006**    **Optimizing the cost and performance of non-individualized binaural cues for surround sound simulations**  
*N.M. Leung, J. Braasch, R.H.Y So*  
Wednesday 18th, 17:10, Room 3
- ELE-Gen-007**    **High performance full-range loudspeaker system with cardioid directivity for difficult acoustic environments**  
*Helmut Barth, Armin Egenter*  
Wednesday 18th, 17:30, Room 3
- ELE-Gen-008**    **Accelerometers with bending elements**  
*Alexander Bazhenov, Sergey Lobastov, Vladimir Yarovikov, Igor Didenkulov*  
Wednesday 18th, 17:50, Room 3

**ELE-Gen-009** Sound-design development with sound simulation vehicle  
*Ralf Heinrichs*  
Wednesday 18th, 18:10, Room 3

## **ENV - ENVIROMENTAL ACOUSTICS, NOISE AND VIBRATION**

### **MAT - ACOUSTIC MATERIALS**

*SS-Field Coordinators: Lafarge, Denis; Moreno, Antonio*

#### **MAT-01 - ABSORBING MATERIALS**

*SS-Chair: Pfretzschner, Jaime*

- MAT-01-001-IP** Comparative analysis of several acoustic impedance measurements  
*J. González Suárez, M. Machimbarrena Gutiérrez, A. Tarrero Fernández, T. Lorenzana Lorenzana, A. Moreno Arranz*  
Thursday 19th, 09:00, Room 3
- MAT-01-002-IP** Influence of pore roughness on high-frequency permeability  
*D. Lafarge, D.M.J. Smeulders, A. Cortis, J.L. Guermond*  
Thursday 19th, 09:20, Room 3
- MAT-01-003-IP** Non-linear acoustics of rigid- porous materials  
*Keith Attenborough, Olga Umnova, Alan Cummings*  
Thursday 19th, 09:40, Room 3
- MAT-01-004-IP** Experimental determination of the acoustical parameters of rigid and limp materials using direct measurements and analytical solutions  
*X. Olny, R. Panneton, J. Tran Van*  
Thursday 19th, 10:00, Room 3
- MAT-01-005-IP** Rubber crumb as granular absorptive acoustic material  
*Jaime Pfretzschner*  
Thursday 19th, 10:20, Room 3
- MAT-01-006-IP** Vibration of porous plates in structural/acoustic coupling applications  
*Philippe Leclaire*  
Thursday 19th, 10:40, Room 3
- MAT-01-007-IP** Polietileno expandido frente polietileno reticular  
*Julián Domínguez Huerta, José Angel Gamallo Pinel*  
Thursday 19th, 11:00, Room 3
- MAT-01-008-IP** Direct and inverse scattering of transient acoustic waves by a slab of rigid porous media  
*Zine El Abidine Fellah, Sylvain Berger, Walter Lauriks, Claude Depollier, Mohamed Fellah*  
Thursday 19th, 11:20, Room 3
- MAT-01-009-IP** Acoustic characterization of microporous membranes  
*Tomás E. Gómez Álvarez-Arenas*  
Thursday 19th, 11:40, Room 3
- MAT-01-010** Oberst beam as a tool for complex young's modulus measurement of porous materials  
*O. Danilov; F. Sgard; X. Olny*

Thursday 19th, 12:00, Room 3

- MAT-01-011**    **Multilayer absorbers of silica aerogel**  
*Paola Ricciardi, M. Vincent Gibiat, Antony Hooley*  
Thursday 19th, 15:30, Room 3
- MAT-01-012**    **Acoustic absorption properties of ordinary materials and building components**  
*Antonino Di Bella, Silvia Rossetti, Roberto Zecchin*  
Thursday 19th, 15:50, Room 3
- MAT-01-013**    **Predicting absorption coefficient in a hall from measurements in a reverberation chamber**  
*Noriko Nishihara, Takayuki Hidaka*  
Thursday 19th, 16:10, Room 3
- MAT-01-015**    **Acoustic characteristics of different materials used in construction**  
*Esther Rilo, Oscar Cabeza, Pablo Dafonte, M. Teresa Lorenzana*  
Thursday 19th, 16:30, Room 3
- MAT-01-016**    **Absorbent characteristics of materials obtained from industrial wastes**  
*M. Teresa Lorenzana, Pablo Dafonte, Esther Rilo, Oscar Cabeza, Julio González*  
Thursday 19th, 16:50, Room 3
- MAT-01-017**    **Acoustic permeability for the characterization of porous samples**  
*M.A. Picard López, P.E. Solana Quirós, J.V. Arizo Serrulla, J.C. Moreno Esteve, D. Martínez Rodríguez*  
Thursday 19th, 17:10, Room 3
- MAT-01-018**    **Sound attenuation in ducts lined with granular material**  
*Ruggero Bartolini, Davide Foppiano, Corrado Schenone*  
Thursday 19th, 17:30, Room 3
- MAT-01-019**    **Application of the fuzzy sets theory to the characterization of stiff absorber materials**  
*J. Alba, J. Ramis, M. Ferri, J. Redondo*  
Thursday 19th, 17:50, Room 3
- MAT-01-020**    **Comparative study of the diffusers characterisation methodologies**  
*J. Redondo, J. Ramis, J. Alba*  
Thursday 19th, 18:10, Room 3
- MAT-01-021**    **Finite element model of real furniture in small rooms at low frequencies**  
*Gustavo da S. V. de Melo, Samir N. Y. Gerges, Barry M. Gibbs*  
Friday 20th, 09:00, Room 3
- MAT-01-024**    **On the error of prediction caused by the uncertainty of absorbing coefficients**  
*Attila Balazs Nagy, K. Das-Gupta*  
Friday 20th, 09:20, Room 3
- MAT-01-025**    **An evolutionary approach to acoustic modeling**  
*Christina Conway, David Corcoran*  
Friday 20th, 09:40, Room 3

## NOI - NOISE

SS-Field Coordinators: **Fastl**, Hugo; **Kuwano**, Sonoko

### NOI-01 - AIRCRAFT NOISE

SS-Chairs: **Vallet**, Michel; **Yamada**, Ichiro

- NOI-01-001-IP** **Effect of meteorological conditions on the excess ground attenuation for the aircraft noise prediction**  
*Ichiro Yamada, Naoaki Shinohara, Hidebumi Tsukioka, Hisashi Yoshioka, Koichi Makino*  
Tuesday 17th, 09:00, Room 4
- NOI-01-002-IP** **Temporal fluctuation of atmospheric absorption of sound and its effect on aircraft noise propagation during a year**  
*Koichi Yoshihisa, Kenji Tatsuda, Yasuaki Okada, Teruo Iwase*  
Tuesday 17th, 09:20, Room 4
- NOI-01-004-IP** **Complaints management at Lyon-Saint Exupéry Airport, France**  
*Yombo N'Dogbia*  
Tuesday 17th, 09:40, Room 4
- NOI-01-005-IP** **The influence of serial-complainers on complaint profiles at airports**  
*Ken Hume, Helen Morley, Daniela Terranova, Callum Thomas*  
Tuesday 17th, 10:00, Room 4
- NOI-01-006-IP** **Can a telephone service reduce annoyance?**  
*Maren Maziul, Joachim Vogt*  
Tuesday 17th, 10:20, Room 4
- NOI-01-007-IP** **Annoyance reduction due to the heli-scheduler at Augsburg regional airport**  
*Eliana Haugg, Joachim Vogt*  
Tuesday 17th, 10:40, Room 4
- NOI-01-008** **Using complaints as a measure of annoyance at airport operations**  
*Ken Hume, Helen Morley, Callum Thomas*  
Tuesday 17th, 11:00, Room 4
- NOI-01-009** **The development of airport areas according to environmental protection from noise pollution: the case of Rome city**  
*Salvatore Curcuruto, Concetta Fabozzi, Franco Micozzi*  
Tuesday 17th, 11:20, Room 4
- NOI-01-010** **Experimental evaluation and optimization of the acoustic properties of a noise barrier**  
*F. Asdrubali*  
Tuesday 17th, 11:40, Room 4

### NOI-02 - ENVIRONMENTAL NOISE POLICY

SS-Co-Chairs: **Irmer**, Volker; **Tachibana**, Hideki

- NOI-02-001-IP** **A new European directive on noise emission by equipments for use outdoors**  
*Volker Irmer*  
Tuesday 17th, 15:30, Room 4



- NOI-02-002-IP** **Effect of meteorological conditions on the excess ground attenuation for the aircraft noise prediction**  
*Ichiro Yamada, Naoaki Shinohara, Hidebumi Tsukioka, Hisashi Yoshioka, Koichi Makino*  
Tuesday 17th, 15:50, Room 4
- NOI-02-003-IP** **Noise prediction for environmental impact assessment in Japan**  
*Tachibana Hideki*  
Tuesday 17th, 16:10, Room 4
- NOI-02-004-IP** **Environmental quality standards and development of noise reduction technique for Shinkansen railway**  
*Yasuo Zenda, Nagakura Kiyoshi*  
Tuesday 17th, 16:30, Room 4
- NOI-02-005** **SPI - an indicator for assessing total noise impact**  
*Truls Gjestland*  
Tuesday 17th, 16:50, Room 4
- NOI-02-006** **Results from implementation of the new Portuguese environmental noise regulation**  
*Pedro Arezes, A. Sérgio Miguel*  
Tuesday 17th, 17:10, Room 4
- NOI-02-007** **Classification of environmental noise by means of neural networks.**  
*Tone Berg*  
Tuesday 17th, 17:30, Room 4
- NOI-02-008** **Measurement uncertainty estimation of environmental noise measurements**  
*Bezjak Mladen*  
Tuesday 17th, 17:50, Room 4
- NOI-02-009** **Sustainable principles applied to noise control management: a methodological approach**  
*Suzana Gueiros Teixeira*  
Tuesday 17th, 18:10, Room 4
- NOI-02-010** **Neighbour and neighbourhood noise – A review of EU legislation and practices**  
*Bernard Berry*  
Wednesday 18th, 09:00, Room 4
- NOI-02-011** **Presentation and improvement of noise maps through internet**  
*Ton Dassen*  
Wednesday 18th, 09:20, Room 4
- NOI-02-012** **Diagnóstico inicial para definir un plan de actuación para grandes áreas**  
*Alberto Bañuelos, L. Alejandro Álvarez, Igone García, Pablo Miyares*  
Wednesday 18th, 09:40, Room 4
- NOI-02-013** **Mapas de ruido como herramientas para el planeamiento de ciudades**  
*Alberto Bañuelos, Igone García, Rubén Mateos, Pablo Miyares*  
Wednesday 18th, 10:00, Room 4
- NOI-02-014** **The ultimate goal of noise control at source**  
*Martin van den Berg*  
Wednesday 18th, 10:20, Room 4

**NOI-02-015 Occupational noise exposure in Portugal**  
*Pedro Arezes, A. Sérgio Miguel*  
Wednesday 18th, 10:40, Room 4

**NOI-03 - HIGH SPEED TRAINS**  
*SS-Chair: Gautier; Kaku Jiro*

**NOI-03-001-IP Study of the aerodynamic noise characteristics of bluff bodies as a pantograph member**  
*Ikeda Mitsuru*  
Wednesday 18th, 11:00, Room 4

**NOI-03-002-IP Numerical investigation of a pressure wave generated by a high-speed train passing through a structure**  
*Takanobu Ogawa, Takashi Nishida*  
Wednesday 18th, 11:20, Room 4

**NOI-03-003-IP Improvement of the prediction model of Shinkansen noise**  
*Tadashi Okada, Masaaki Hiroe*  
Wednesday 18th, 11:40, Room 4

**NOI-03-004-IP Experimental characterisation of a new aeroacoustic source on high speed trains**  
*Franck Poisson, Fabien Letourneaux, Gilles Robert*  
Wednesday 18th, 12:00, Room 4

**NOI-03-005-IP Inside noise of high speed train coaches**  
*F. Poisson, F. Letourneaux, T. Loizeau, N. Vincent*  
Wednesday 18th, 15:30, Room 4

**NOI-03-006-IP Environmental railway noise : a source separation measurement method for noise emissions of vehicles and track**  
*Fabien Letourneaux, Olivier Coste, Cyril Mellet, Pascal Fodiman*  
Wednesday 18th, 15:50, Room 4

**NOI-03-007-IP High speed train noise - sound source localization at fast passing trains**  
*Alexander Martens, Jörg Wedemann, Nicolas Meunier, Audrey Leclere*  
Wednesday 18th, 16:10, Room 4

**NOI-03-008 Sound radiation from visco-elastically damped plates excited by an impact force**  
*Katsuji Akamatsu, Takao Yamaguchi*  
Wednesday 18th, 16:30, Room 4

**NOI-03-009 Curve squeal of train wheels: unstable modes and limit cycles**  
*Maria Heckl*  
Wednesday 18th, 16:50, Room 4

**NOI-03-010 An application of the statistical energy analysis (SEA) to the internal noise prediction in trains**  
*Gabriel Alarcón i Rovira, Jordi Palmiola Creus*  
Wednesday 18th, 17:10, Room 4

**NOI-03-011 Preliminary measurements for characterization and locating of curve squealing**  
*Stefanelli Rossano, Dual Jurg*  
Wednesday 18th, 17:30, Room 4

**NOI-03-012**     **Pantallas Acústicas Fotovoltaicas para tráfico ferroviario**  
*Daniel Bote, Jaime Pfretzschner, Carlos de la Colina*  
Wednesday 18th, 17:50, Room 4

**NOI-04 - LONG-TERM EVALUATION OF ENVIRONMENTAL NOISE**

*SS-Co-Chairs: Fastl, Hugo; Kuwano, Sonoko*

**NOI-04-001-IP**     **Memory of the loudness of sounds and its relation to overall impression**  
*Sonoko Kuwano, Namba Seiichiro, Tohru Kato, Juergen Hellbrueck*  
Tuesday 17th, 09:00, Room 5

**NOI-04-002-IP**     **Loudness judgements**  
*Jürgen Hellbrück, Hugo Fastl, Barbara Keller*  
Tuesday 17th, 09:20, Room 5

**NOI-04-003-IP**     **Features of neutralized sounds for long term evaluation**  
*Hugo Fastl*  
Tuesday 17th, 09:40, Room 5

**NOI-04-004-IP**     **Traffic-noise exposed resident's evaluation of long-term annoyance and short-term loudness**  
*Birgita Berglund,*  
Tuesday 17th, 10:00, Room 5

**NOI-04-005-IP**     **Loudness of sounds with temporal variable intensity**  
*Sabine Meunier, Alain Marchioni*  
Tuesday 17th, 10:20, Room 5

**NOI-04-006-IP**     **The Effects of the Soundfield System on cognitive performance of elementary school children**  
*M. Klätte, M. Meis, C. Janott, C. Hilge, A. Schick*  
Tuesday 17th, 10:40, Room 5

**NOI-04-007-IP**     **Time variability of urban noise and estimate of its long term  $L_{Aeq}$  level**  
*Giovanni Brambilla*  
Tuesday 17th, 11:00, Room 5

**NOI-04-008-IP**     **Geographic information system for evaluation of road traffic noise along the road**  
*Kazutoshi Fujimoto, Ken Anai*  
Tuesday 17th, 11:20, Room 5

**NOI-04-010-IP**     **Community response to road traffic noise in living environments**  
*Yokoshima Shigenori, Tamura Akihiro*  
Tuesday 17th, 11:40, Room 5

**NOI-04-011-IP**     **Comparison of community responses to railway and road traffic noises in Kyushu, a warmer area of Japan, and Hokkaido, a colder area**  
*Yano Takashi, Morihara Takashi, Sato Tetsumi*  
Tuesday 17th, 12:00, Room 5

**NOI-04-012-IP**     **Annoyance caused by magnetic levitation train transrapid 08**  
*Joos Vos*  
Tuesday 17th, 15:30, Room 5

- NOI-04-013-IP** **Temporal variation of sound quality under long-term exposure of car interior noise and seat-floor vibration**  
*Takeo Hashimoto*  
Tuesday 17th, 15:50, Room 5
- NOI-04-014** **How does loudness of impulsive sounds depends on energy and duration?**  
*Sabine Meunier, Guy Rabau*  
Tuesday 17th, 16:10, Room 5
- NOI-04-015** **Characterisation of the urban sound environment based on psycho-acoustic criteria**  
*Christophe Louwerse, Catherine Semidor, Jacques Beaumont*  
Tuesday 17th, 16:30, Room 5
- NOI-04-016** **Sound intensity probe calibrator for field use: calculating the sound field in the calibrator using boundary element modelling**  
*Bernard Ginn, Erling Olsen, Vicente Cutanda, Johan Gramtorp, Anders Eriksen*  
Tuesday 17th, 15:50, Room 5
- NOI-04-017** **Necesidades y soluciones para la gestión del impacto sonoro del entorno de una zona portuaria**  
*Itziar Aspuru, Manuel Vázquez, José Luis Eguiguren, Azucena Cortés*  
Tuesday 17th, 17:10, Room 5
- NOI-04-018** **Practical methodology for fast environmental field measurements**  
*Rui M. G. C. Rodrigues, António P. O. Carvalho*  
Tuesday 17th, 17:30, Room 5

#### **NOI-05 - PSYCHOSOMATIC EFFECTS OF NOISE**

*SS-Chair: Schulte-Fortkamp, Brigitte*

- NOI-05-001-IP** **Aspects of responses to community noise in self reports, autonomous as well as central nervous system activity**  
*Michael Trimmel, Dora Sonosa, Silvie Kubu, Michael Kunent, Gerhard Poelzl, Elisabeth Groot-Knapp*  
Tuesday 17th, 17:50, Room 5
- NOI-05-002-IP** **Association between environmental noise annoyance and sound level. First results of the "naromi" study (noise and risk of myocardiafarction)**  
*Wolfgang Babisch, Thomas Keil, Bernd Beule, Martina Stallmann, Karl Wegscheider, Marianne Schust, Heide Stark, Stefan N. Willich*  
Tuesday 17th, 18:10, Room 5
- NOI-05-003-IP** **The relative impact on recall of road-traffic noise during encoding and rehearsal of a text**  
*Staffan Hygge*  
Wednesday 18th, 09:00, Room 5
- NOI-05-004-IP** **Noise induced tinnitus: subjective experience and objective evidence**  
*Deepak Prasher*  
Wednesday 18th, 09:20, Room 5
- NOI-05-005-IP** **The effect of changed noise levels at Sydney airport on health outcomes I: area differences**  
*RF Soames Job, Julie Hatfield, Gavin Faunce, Norman L Carter, Peter Peploe, Richard Taylor, Stephen Morrell*  
Wednesday 18th, 09:40, Room 5

- NOI-05-006-IP** **The effect of changed noise levels at Sydney airport on health outcomes II: the role of anticipation and reaction**  
*Julie Hatfield, RF Soames Job, Gavin Faunce, Norman L Carter, Peter Peploe, Richard Taylor, Stephen Morrell*  
 Wednesday 18th, 10:00, Room 5
- NOI-05-007-IP** **Trading level to frequency of overflights: Does the physical concept of energy equivalence also fit for psychological and physiological reactions to aircraft noise?**  
*Elisabeth Groll-Knapp*  
 Wednesday 18th, 10:20, Room 5
- NOI-05-008-IP** **Sound, meaning and politics. The social construction of aircraft noise annoyance**  
*Christian Bröer*  
 Wednesday 18th, 10:40, Room 5
- NOI-05-009-IP** **Noise levels in discotheques: an estimation of the risk of hearing impairment**  
*Thilo Leitmann*  
 Wednesday 18th, 11:00, Room 5
- NOI-05-010-IP** **Epidemiological research on stress caused by road traffic noise and its effects on health – Results for hypertension**  
*Christian Maschke*  
 Wednesday 18th, 11:20, Room 5
- NOI-05-011-IP** **The effects of aircraft noise on children. Results of the Munich Airport study**  
*Sylvia V. Mackensen, Monika Bullinger*  
 Wednesday 18th, 11:40, Room 5
- NOI-05-013** **Study on the influences of environmental noises in public spaces on conversation**  
*Yokoyama Sakae, Ueno Kanako, Tachibana Hideki*  
 Wednesday 18th, 12:00, Room 5

#### **NOI-06 - ROAD TRAFFIC NOISE**

*SS-Co-Chairs: **Beckenbauer**, Thomas; **Barti**, Robert*

- NOI-06-001** **The effect of rails crossing streets on the noise rating level from road traffic**  
*Wolfgang Foken, Dirk Grundke, Thomas Hausotte*  
 Thursday 19th, 09:00, Room 4
- NOI-06-002** **El ruido derivado del tráfico rodado urbano: factores condicionantes, relación entre los parámetros acústicos obtenidos y espectros frecuenciales generados.**  
*Luis Espada, Javier Rodríguez*  
 Thursday 19th, 09:20, Room 4
- NOI-06-003** **Noise study of Salamanca (Spain) by means of a categorization method**  
*V. Gómez Escobar, J.M. Barrigón Morillas, J.A. Méndez Sierra, R. Vílchez Gómez, J.M. Vaquero Martínez*  
 Thursday 19th, 09:40, Room 4
- NOI-06-005** **Problématique de l'environnement dans les transports terrestres**  
*Jacques Beaumont*

- Thursday 19th, 10:00, Room 4
- NOI-06-006 Acoustical impact of traffic flowing equipments in urban area**  
*Michel Bérengier*  
Thursday 19th, 10:20, Room 4
- NOI-06-007 Fuzzy noise maps**  
*Tom De Muer, Dick Botteldooren*  
Thursday 19th, 10:40, Room 4
- NOI-06-008 Localization of noise sources using sound propagation theory**  
*Hans G. Jonasson*  
Thursday 19th, 11:00, Room 4
- NOI-06-009 Noise models and traffic management for town - planning engineering**  
*P.E. Solana Quirós M.A. Picard López J.V. Arizo Serrulla, J.C. Moreno Esteve, D. Martínez Rodríguez*  
Thursday 19th, 11:20, Room 4
- NOI-06-010 El problema del ruido de tráfico en la autovía de circunvalación de Granada**  
*Susana Serrano, Jerónimo Vida, Diego P. Ruiz*  
Thursday 19th, 11:40, Room 4
- NOI-06-011 Prediction of excess attenuation of road traffic noise by detached houses**  
*Ken Anai, Kazutoshi Fujimoto*  
Thursday 19th, 12:00, Room 4
- NOI-06-012 Noise pollution generated by ring roads**  
*E. García Ortiz, J. Cepeda Riaño, B. Melcón Otero, J. Ferreiro García, M. De Barrios Carro, Marcos Fuentes Robles*  
Thursday 19th, 15:30, Room 4
- NOI-06-013 Psychoacoustics applied to tire noise**  
*Robert Barti*  
Thursday 19th, 15:50, Room 4
- NOI-06-014 Comparison among active noise systems for tyre-pavement contact noise reduction**  
*Federico Rossi*  
Thursday 19th, 16:10, Room 4
- NOI-06-015 A study of different calculation methods for noise barrier top edge designs**  
*Pál Zoltán Bite, Fülöp Augusztinovicz*  
Thursday 19th, 16:30, Room 4
- NOI-06-016 Incidencia de la peatonalización urbana en los niveles sonoros de la ciudad**  
*J. Cepeda Riaño, E. García Ortiz, B. Melcón Otero, J. Ferreiro García, M. Fuentes Robles, D. Fernández del Río*  
Thursday 19th, 16:50, Room 4
- NOI-06-017 Quality assurance for the calculation of large noise maps**  
*Hardy Stapelfeldt*  
Thursday 19th, 17:10, Room 4

**NOI-07 - SOUNDQUALITY AND SOUNDSCAPES**  
*SS-Chair: Genuit, Klaus; Schulte Fortkamp, Brigitte*

- NOI-07-001-IP Differences in traffic noise measurements with SLM and binaural recording head**  
*Henrik Schwarz*  
Wednesday 18th, 15:30, Room 5
- NOI-07-002-IP Soundscapes and living spaces sociological and psychological aspects concerning acoustical environments**  
*Brigitte Schulte-Fortkamp*  
Wednesday 18th, 15:50, Room 5
- NOI-07-003-IP Interaction between picture and sound on the perception of an observer - a video installation**  
*Rudi Volz*  
Wednesday 18th, 11:10, Room 5
- NOI-07-004-IP Sound quality of vehicle exterior noise**  
*Winfried Krebber, Klaus Genuit, Roland Sottek*  
Wednesday 18th, 16:30, Room 5
- NOI-07-005-IP Soundscape design – Acoustical challenge**  
*Klaus Genuit*  
Wednesday 18th, 16:50, Room 5
- NOI-07-006-IP Improvement of dummy head recordings realism with an additional subwoofer**  
*Etienne Parizet, Marion Mouret*  
Wednesday 18th, 17:10, Room 5
- NOI-07-007 Evaluación acústica medioambiental del parque eólico “La Cuerda”**  
*Juan Martínez, Marcelino Ferri, Jesús Alba, Jaime Ramis, José M<sup>a</sup> García*  
Wednesday 18th, 17:30, Room 5
- NOI-07-008 Survey on loudness, annoyance and  $L_{eqdn}$ , and factors that explain most of the variance of the variables**  
*Jorge Sommerhoff Hyde, Manuel Recuero López*  
Wednesday 18th, 17:50, Room 5
- NOI-07-009 Study of annoyance by environmental noise in Menorca island’s population**  
*Enrique Suárez Silva, Manuel Recuero López*  
Wednesday 18th, 18:10, Room 5
- NOI-07-010 Community annoyance due to environmental noise, the example of the city of Curitiba, Brazil**  
*Paulo H. T. Zannin, Alfredo Calixto, Fabiano B. Diniz, José A. C. Ferreira*  
Thursday 19th, 09:00, Room 5
- NOI-07-011 Urban Noise Pollution in Residential Areas of the City of Curitiba, Brazil**  
*Paulo H. T. Zannin, Fabiano B. Diniz, Alfredo Calixto*  
Thursday 19th, 09:20, Room 5
- NOI-07-012 Economic demand curve of "dB of silence" and it's relation with income and opinion of noise influence in quality of life**  
*Jorge Sommerhoff Hyde, Manuel Recuero López*  
Thursday 19th, 09:40, Room 5

- NOI-07-013**      **Study of perception on the acoustic environmental of students of school in the Menorca island**  
*Enrique Suárez Silva, Manuel Recuero López*  
 Thursday 19th, 10:00, Room 5
- NOI-07-014**      **A study on simulation of environmental residual noise**  
*Syouichi Tanaka, Biho Shiraishi, Masayuki Morimoto*  
 Thursday 19th, 10:20, Room 5
- NOI-07-015-IP**    **Evaluation of sound quality of vehicle pass-by noises by psycho-physiological methods**  
*Gert Notbohm, Claus Gärtner, Sieglinde Schwarze*  
 Thursday 19th, 10:40, Room 5
- NOI-07-016**      **Descripción y análisis del nivel de ruido medido en la ciudad de Huetor Vega (Granada)**  
*Susana Serrano, Jerónimo Vida, Diego P. Ruiz*  
 Thursday 19th, 11:00, Room 5
- NOI-07-017**      **Sound ambient environment of urban places: comparison of sound appraisal factors with acoustical parameters**  
*Manon Raimbault, Catherine Lavandier*  
 Thursday 19th, 11:20, Room 5
- NOI-07-018**      **How far is the sound quality of a diesel powered car away from that of a gasoline powered one?**  
*Christine Patsouras, Hugo Fastl, Dimitrios Patsouras, Klaus Pfaffelhuber*  
 Thursday 19th, 11:40, Room 5
- NOI-07-019**      **Partial results about people reactions to the urban noise**  
*J.M. Barrigón-Morillas, J.A. Méndez-Sierra, V. Gómez-Escobar, R. Vílchez-Gómez, J.M. Vaquero-Martínez*  
 Thursday 19th, 12:00, Room 5
- NOI-07-020**      **Contributions to the preservation of the Extremadura sonorous heritage**  
*J. M. Barrigón-Morillas, V. Gómez-Escobar, J.A. Méndez-Sierra, J.M. Vaquero- Martínez, R. Vílchez-Gómez*  
 Thursday 19th, 15:30, Room 5
- NOI-07-021**      **Acoustic improvement in urban areas. The case of Florence**  
*Gianfranco Cellai, Carlotta Passerini, Giorgio Raffellini, Simone Secchi*  
 Thursday 19th, 15:50, Room 5
- NOI-07-022**      **The social-economic panorama of the noise environmental pollution in the city of Rio**  
*Suzana Gueiros Teixeira, Luiz Pinguelli Rosa, Marco Nabuco*  
 Thursday 19th, 16:10, Room 5
- NOI-07-023**      **Relationship between physical and perceptual attributes of sounds transmitted through a thin glass plate**  
*Julien Faure, Catherine Marquis-Favre*  
 Thursday 19th, 16:30, Room 5



## OSP - OUTDOOR SOUND PROPAGATION

SS-Field Coordinator: **Attenborough**, Keith

### OSP-01 - SOUND PROPAGATION IN THE ATMOSPHERE

SS-Chair: **Ziemann**, Astrid

- OSP-01-001-IP** A review of ground impedance models for propagation modelling  
*Keith Attenborough*  
Thursday 19th, 16:30, Room 2
- OSP-01-002-IP** Effective impedance of randomly rough surfaces  
*Patrice Boulanger, Keith Attenborough*  
Thursday 19th, 16:50, Room 2
- OSP-01-003-IP** Outdoors sound propagation in complex environments: recent developments in the pe method.  
*Philippe Blanc-Benon, Daniel Juve*  
Thursday 19th, 17:10, Room 2
- OSP-01-004-IP** A contribution to the study of sound propagation outdoors  
*M. Arenal, J. González, M. Machimbarrena, A. Tarrero*  
Thursday 19th, 17:30, Room 2
- OSP-01-005-IP** Complex outdoor sound propagation theory versus scale model measurements  
*Eric Premat, Jérôme Defrance*  
Thursday 19th, 17:50, Room 2
- OSP-01-006-IP** Validation of an outdoor sound propagation model in presence of trees  
*A.I. Tarrero Fernández; J. González; M<sup>a</sup>. Machimbarrena; M. Arenal, M<sup>a</sup> A. Martín Bravo*  
Thursday 19th, 18:10, Room 2
- OSP-01-007** Using windscreens to improve the efficiency of noise barriers in wind: finite-difference time-domain simulations  
*Timothy Van Renterghem, Dick Botteldooren*  
Friday 20th, 09:00, Room 2
- OSP-01-008** Acoustic travel time tomography to detect near-surface area covering wind and temperature data  
*Armin Raabe, Klaus Arnold, Astrid Ziemann*  
Friday 20th, 09:20, Room 2
- OSP-01-009** A modified turbulence spectrum by the disipation of the energy  
*P.E. Solana Quirós, M.A. Picard López, J.V. Arizo Serrulla, J.C Moreno Esteve, D. Martínez Rodríguez*  
Friday 20th, 09:40, Room 2
- OSP-01-010** Dependence of the direct sound energy upon the distance to the sound source  
*J. Stauskis Vytautas, Gediminas Vilnius*  
Friday 20th, 10:00, Room 2
- OSP-01-011** Analysis of a sound speed measurement made in 1738  
*J.M. Vaquero-Martínez, J.A. Méndez-Sierra, J.M. Barrigón-Morillas, V. Gómez-Escobar, R. Vilchez-Gómez*  
Friday 20th, 10:20, Room 2

- OSP-01-012**    **The Influence of range-dependent meteorology on outdoor sound propagation over a barrier**  
*D.C. Waddington, Y.W. Lam*  
Friday 20th, 10:40, Room 2

## **STA - STRUCTURAL ACOUSTICS**

*SS-Field Coordinator: Guyader, Jean-Louis*

### **STA-01 - STRUCTURAL ACOUSTICS**

*SS-Chair: Guyader, Jean-Louis*

- STA-01-001-IP**    **Vibro-acoustic experimental analysis in hard disk drives**  
*Yan Ying, Gao Feng, Yap Fook Fah*  
Friday 20th, 09:00, Room 3
- STA-01-002-IP**    **Application of the Energy Mobility to Fluid-Structure Coupling Prediction**  
*M.S. Ryu, C. Cacciolati, J.L. Guyader*  
Friday 20th, 09:20, Room 3
- STA-01-003-IP**    **Integral equation to predict frequency averaged quadratic pressure radiated from a vibrating structure**  
*Jean-Louis Guyader*  
Friday 20th, 09:40, Room 3
- STA-01-004**        **Stationary and transient vibrations of davi vibroinsulation system**  
*Jerzy Michalczyk*  
Friday 20th, 10:00, Room 3
- STA-01-005**        **Investigation of transfer impedances of mounted rolling bearings**  
*João Henrique D. Guimarães, Michael Makarski, Klaus Reitz, Constantijn Steinhuisen*  
Friday 20th, 10:20, Room 3
- STA-01-006**        **Noise at home emitted by vibrating slabs. Experimental study on vibration evaluation criteria**  
*Fernando Schiappa de Azevedo, Jorge Patrício*  
Friday 20th, 10:40, Room 3

## **ENV-Gen - ENVIRONMENTAL ACOUSTICS, NOISE AND VIBRATION - GENERAL**

- ENV-Gen-001**        **Combined sensor noise immunity in diffusive and coherent fields**  
*Vladimir A. Shchurov*  
Thursday 19th, 15:30, Room 11
- ENV-Gen-002**        **Environmental noise control in the pulp and paper industry**  
*Henrik Pettersson*  
Thursday 19th, 15:50, Room 11
- ENV-Gen-003**        **Transmission loss of extruded aluminium panels with orthotropic cores**  
*Torsten Kohrs, Björn A.T. Petersson*  
Thursday 19th, 16:10, Room 11
- ENV-Gen-004**        **A modal substructuring method for the prediction of the acoustic performance in mufflers**

*F. J. Fuenmayor, F. D. Denia, J. Albelda, L.. Baeza*  
Thursday 19th, 16:30, Room 11

- ENV-Gen-005 Acoustic characterisation of electric connectors and use of the data in tractor cabin sea-models**  
*Esa Nousiainen, Jukka Tanttari*  
Thursday 19th, 16:50, Room 11
- ENV-Gen-006 Psychomechanical study of sounds rated by fluid-loaded vibrating plates**  
*Dominique Habault, Sabine Meunier, Georges Canévet, Pierre-Olivier Mattei*  
Thursday 19th, 17:10, Room 11
- ENV-Gen-008 Statistical study of the instantaneous values of the sound pressure level, given sound events related to environmental acoustics**  
*Jesús Alba, Marcelino Ferri, Jaime Ramis, Juan A. Martínez*  
Thursday 19th, 17:30, Room 11
- ENV-Gen-009 Improving the methods of characterization of noise annoyance on passenger vessels modifying the standard noise tests**  
*Ricardo Hernández, José Luis Cueto*  
Thursday 19th, 17:50, Room 11
- ENV-Gen-010 Identification of sound sources emitted by an axial fan**  
*T. Pàmies J. Romeu, S. Jiménez, R. Capdevila*  
Thursday 19th, 18:10, Room 11
- ENV-Gen-011 A simple acoustic model to simulate the blade-passing frequency sound pressure generated in the volute of centrifugal pumps**  
*Jorge Parrondo Gayo, Javier Pérez Castillo, Joaquín Fernández Francos, José González Pérez*  
Friday 20th, 09:00, Room 11
- ENV-Gen-012 Measurement of acoustic impedance of the porous woven hoses in engine intake systems in the presence of mean flow**  
*Jeong-Guon Ih, Chul-Min Park, Yoshio Nakayama*  
Friday 20th, 09:20, Room 11
- ENV-Gen-013 Noise from wind turbines. Standards and noise reduction procedures**  
*Helmut Klug*  
Friday 20th, 09:40, Room 11
- ENV-Gen-014 Noise mapping: uncertainties**  
*Javier Alberola Asensio, Jorge Mendoza López, Andrew J. Bullmore, Ian H. Flindell*  
Friday 20th, 10:00, Room 11
- ENV-Gen-015 Noise predictions and the new European harmonised prediction model**  
*Hans J. A. van Leeuwen*  
Friday 20th, 10:20, Room 11
- ENV-Gen-016 Experimental verification of multiple coherent output divided spectrum by expansion of the multiple spectrum analysis**  
*Noboru Kamiakito, Masahito Kobayashi, Masazumi Shioda, Yasuhiro Yamashita*  
Friday 20th, 10:40, Room 11
- ENV-Gen-017 Basic assumption for the development of a system for acoustical mapping of urban areas**  
*Jan Kazmierczak, Marek Komoniewski, Adam Lipowczan*

Friday 20th, 11:00, Room 11

**ENV-Gen-018 The European environmental noise directive**

*Martin Joseph*

Friday 20th, 11:20, Room 11

**ENV-Gen-019 Noise mapping as a tool for the development of urban areas**

*Maria Joao*

Friday 20th, 11:40, Room 11

**ENV-Gen-020 Experimental measurement of the transmission of noise through branch junctions of air circuits**

*Jorge Parrondo Gayo, Sandra Domínguez Uría, Joaquín Fernández Francos*

Friday 20th, 12:00, Room 11

## **MUS - MUSICAL ACOUSTICS**

SS-Field Coordinator: **Campbell, Murray**

### **MUS-01 - PERCEPTION AND RECOGNITION OF MUSIC**

SS-Co-Chairs: **Besnainou, Charles; Houtsma, Adrian; Iwamiya, Shinichiro**

**MUS-01-001-IP What kinds of sounds can elders affected by dementia recollect?:**

**Toward soundscape design**

*Koji Nagahata, Tetsuhito Fukushima, Noriko Ishibashi, Yukio Takahashi, Masaki Moriyama,*

Tuesday 17th, 09:00, Room 6

**MUS-01-002-IP Tendencies, Perspectives, and Opportunities of Musical Audio-Mining**

*M. Leman, L. P. Clarisse, B. De Baets, H. De Meyer, M. Lesaffre, G. Martens, J.P. Martens, D. Van Steelant*

Tuesday 17th, 09:20, Room 6

**MUS-01-003-IP Temporal control mechanism for tapping of rhythmic patterns constructed by two kinds of time values**

*Masashi Yamada*

Tuesday 17th, 09:40, Room 6

**MUS-01-004-IP Effect of the fluctuations of harmonics on the subjective quality of flute tone**

*Akira Nishimura, Mitsumi Kato, Yoshinori Ando*

Tuesday 17th, 10:00, Room 6

**MUS-01-005 Identification of rhythm and sound in polyphonic piano recordings**

*Ana María Barbancho Pérez, Antonio Jurado Navas, Isabel Barbancho Pérez*

Tuesday 17th, 10:20, Room 6

**MUS-01-006 Han evolucionado los gustos musicales?**

*Ana María Barbancho Pérez*

Tuesday 17th, 10:40, Room 6

**MUS-01-007 Musical instrument recognition with wavelet envelopes**

*Huseyin Hacihabiboglu, C. Nishan Canagarajah*

Tuesday 17th, 11:00, Room 6

**MUS-01-008 Can you identify the Vienna Philharmonic Orchestra, compared with the Berlin or New York Philharmonic?**

*Matthias Bertsch*

Tuesday 17th, 11:20, Room 6

**MUS-01-009 Influence of inharmonicity on the tone of a piano**  
*In Yong Choi, Sung Yong Yoon, Se Woong Kim, Keong-Mo Sung*  
Tuesday 17th, 11:40, Room 6

**MUS-01-010 Aspects of piano performance analyses**  
*Jan Tro*  
Tuesday 17th, 12:00, Room 6

#### **MUS-02 - ACOUSTICAL AND PERCEPTUAL ENHANCEMENT OF AUDIO RECORDING**

*SS-Co-Chairs: Stanzial, Domenico; Castellengo, Michele*

**MUS-02-001-IP Energetic analysis of the quadraphonic synthesis of sound fields for sound recording and auralization enhancing. Sound recording and reproducing systems, general concepts**  
*Davide Bonsi, Domenico Stanzial*  
Tuesday 17th, 15:30, Room 6

**MUS-02-002-IP Advances in audio signal enhancement and stringed instrument emulation using real-time dsp**  
*Patrick Gaydecki, Jim Woodhouse, Ian Cross*  
Tuesday 17th, 15:50, Room 6

**MUS-02-003-IP A bio-mechanism for the enhancement of presence and directionality cues in sound perception**  
*Diego Gonzalez, Davide Bonsi, Domenico Stanzial*  
Tuesday 17th, 16:10, Room 6

**MUS-02-005 Sound recording evolution through its history – Some stages**  
*Jean-Marc Fontaine*  
Tuesday 17th, 16:30, Room 6

#### **MUS-03 - SIGNING STYLES ON THE EARTH ANCIENT INSTRUMENTS**

*SS-Co-Chairs: Yamada, Masashi; Polack, Jean-Dominique*

**MUS-03-001-IP Analysis of acoustical features of biphonic singing voices male and female Xöömij and male steppe Kargiraa**  
*Shoichi Takeda, Teruo Muraoka*  
Tuesday 17th, 16:50, Room 6

**MUS-03-002-IP Comparative studies on Japanese traditional singing and bel canto**  
*Masuzo Yanagida, Ichiro Nakayama*  
Tuesday 17th, 17:10, Room 6

**MUS-03-003-IP Analysis of vocal fold vibration during register change by high speed digital imaging system**  
*Masanobu Kumada, Noriko Kobayashi, Hajime Hirose, Niro Tayama, Hiroshi Imagawa, Ken-Ichi Sakakibara, Takaharu Nito, Mamiko Wada, Shin'ichi Kakurai, Chieko Kumada, Seiji Niimi*  
Tuesday 17th, 17:30, Room 6

**MUS-03-004-IP Why do we perceive two tones simultaneously in mongolian traditional singing, Xöömij?**  
*Masashi Yamada*  
Tuesday 17th, 17:50, Room 6

**MUS-03-006 Acoustical characteristics of the Gayageum: a twelve-stringed korean traditional musical instrument**  
*Jung Uk Noh, Chulmin Choi, Han-Gil Moon, Koeng-Mo Sung*  
Tuesday 17th, 18:10, Room 6

**MUS-04 - SOUND MECHANISMS OF WIND INSTRUMENTS**

*SS-Chair: Campbell, Murray; Adachi, Seiji*

**MUS-04-001-IP Modeling principles for time-domain simulations of wind instruments in playing situations**  
*Éric Ducasse*  
Wednesday 18th, 09:00, Room 6

**MUS-04-002-IP Numerical analysis of an air jet: toward understanding sounding of air-jet driven instruments**  
*Seiji Adachi*  
Wednesday 18th, 09:20, Room 6

**MUS-04-003-IP Investigations and recent results on flutes with PIV**  
*A. Bamberger*  
Wednesday 18th, 09:40, Room 6

**MUS-04-004-IP Sound mechanisms of brass instruments, last twenty years results**  
*Joël Gilbert*  
Wednesday 18th, 10:00, Room 6

**MUS-04-005 Use of experimental studies in determining a two-mass lip model**  
*O. Richards, D. M. Campbell, J. Gilbert, M. A. Neal*  
Wednesday 18th, 10:20, Room 6

**MUS-04-006 Saturation mechanism in reed instruments**  
*Jean-Pierre Dalmont, Eric Ducasse, Sébastien Ollivier*  
Wednesday 18th, 10:40, Room 6

**MUS-04-007 Measurement of acoustic velocities at woodwind instrument toneholes using particle image velocimetry**  
*DJ Skulina, D Rockliff, DM Campbell, CA Greated*  
Wednesday 18th, 11:00, Room 6

**MUS-04-008 Spectrum of conical reed instruments by using the variable truncation method**  
*Jean Kergomard, Sébastien Ollivier*  
Wednesday 18th, 11:20, Room 6

**MUS-04-009 First suggestions for the improvement of accordion reeds**  
*R. Llanos-Vázquez, J. Alonso-Moral, M.J. Elejalde-García, E. Macho-Stadler*  
Wednesday 18th, 11:40, Room 6

**MUS-05 - SOUND REPRODUCTION, CODING AN QUALITY**

*SS-Co-Chairs: Kausel, Wilfred; Bertsch, Matthias*

**MUS-05-001-IP Degradation of sound quality caused by jitter of digital sound system**  
*Makoto Miyahara, Yukio Kobayashi, Tomoharu Ishikawa, Minoru Mitsui, Teppei Koga*  
Wednesday 18th, 15:30, Room 6

**MUS-05-002-IP Audio coding: basics and state of the art**

*Karlheinz Brandenburg*

Wednesday 18th, 15:50, Room 6

**MUS-05-003-IP The role of psychoacoustic in digital audio coding schemes**

*Armin Kohlrausch*

Wednesday 18th, 16:10, Room 6

**MUS-06 - PHYSICAL MODELS AND VIRTUAL MUSICAL INSTRUMENTS**

*SS-Co-Chairs: Tronchin, Lamberto; Barjau, Ana; Gibiat, Vincent*

**MUS-06-001-IP Real-time bowed string synthesis with force feedback gesture interaction**

*Jean-Loup Florens*

Wednesday 18th, 16:30, Room 6

**MUS-06-003-IP Some considerations on sound synthesis of piano hammer/string collision**

*Christophe Vergez, Ren  Causs , Eric Humbert, Olivier de Lajudie*

Wednesday 18th, 16:50, Room 6

**MUS-06-004-IP Time-domain simulation of reed woodwinds with application to musical sound synthesis**

*Maarten van Walstijn, Murray Campbell*

Wednesday 18th, 17:10, Room 6

**MUS-06-005-IP Unified modelling of simplified musical instruments in time domain**

*Ana Barjau, Vincent Gibiat, Delphine Chareyron*

Wednesday 18th, 17:30, Room 6

**MUS-06-006-IP Vibrations of shallow spherical shells and gongs: A comparative study**

*Antoine Chaigne, Mathieu Fontaine, Olivier Thomas, Michel Ferre, Cyril Touze*

Wednesday 18th, 17:50, Room 6

**MUS-06-007 Blending vocal music with sound fields by variations in lyrics and music tempo**

*Kosuke Kato, Dennis Noson, Yoichi Ando*

Wednesday 18th, 18:10, Room 6

**MUS-06-008 The Study of violin timbre using spontaneous verbal description and verbal attribute Rating**

*Jan Stepanek*

Thursday 19th, 09:00, Room 6

**MUS-06-009 A Combined Laminate and Honeycomb Wood Model for Softwood used for Numerical Optimization of a Violin Top**

*Peter Carlsson, Mats Tinnsten*

Thursday 19th, 09:20, Room 6

**MUS-06-010 Sintrack analysis for tracking components of musical signals**

*Bertrand David, Roland Badeau, Ga l Richard*

Thursday 19th, 09:40, Room 6

**MUS-06-011 Physical modeling of organ pipes with free reeds**

*Jonas Braasch, Sebastian Schmidt*

Thursday 19th, 10:00, Room 6

**MUS-06-012 Time-domain simulation of a guitar**

*Antoine Chaigne, Grégoire Derveaux, Eliane Becache, Patrick Joly*  
Thursday 19th, 10:20, Room 6

**MUS-06-013** **An attempt to use an electrical circuit simulator to better understand the relationship between a brass player's intonation and the instrument's input impedance**

*Wilfried Kausel*

Thursday 19th, 10:40, Room 6

**MUS-06-014** **Developing experimental techniques and physical modeling for ethnomusicology project on Ouldémé flutes**

*René Caussé, Christophe Vergez, Benoit Fabre, Claire Ségoufin, Patricio de la Cuadra*

Thursday 19th, 11:00, Room 6

**MUS-06-015** **Internal fluid influence on the dynamic behaviour of the resonance box of the guitar**

*Amaya Ezcurra, M<sup>a</sup> Jesús Elejabarrieta, Carlos Santamaría*

Thursday 19th, 11:20, Room 6

#### **MUS-Gen- MUSICAL ACOUSTICS - GENERAL**

**MUS-Gen-001** **Numerical optimization of geometrical dimensions and determination of material parameters for violin tops**

*Mats Tinnsten, Peter Carlsson*

Thursday 19th, 15:30, Room 6

**MUS-Gen-002** **Physical and chemical properties of varnishes and their vibrational consequences**

*Claire Simonnet, Vincent Gibiat, Jean-Louis Halary*

Thursday 19th, 15:50, Room 6

**MUS-Gen-004** **Large-bandwidth measurement of acoustic input impedance of tubular objects**

*Maarten van Walstijn, Murray Campbell*

Thursday 19th, 16:10, Room 6

**MUS-Gen-005** **Improving the measurement of the low frequency content of the impulse response using acoustic pulse reflectometry**

*Aijun Li, David Sharp, Barbara Forbes*

Thursday 19th, 16:30, Room 6

**MUS-Gen-006** **Acoustical analysis of pipes with flow using invariant field functions**

*Pavic Goran*

Thursday 19th, 16:50, Room 6

**MUS-Gen-007** **Constructing a Machine Evaluation System "MAESTRO" for Music Aesthetics of Allowable Solutions for Given Bass Task in the Theory of Harmony**

*Masanobu Miura, Masashi Yamada, Mitsuru Obana, Masuzo Yanagida*

Thursday 19th, 17:10, Room 6



# NUM - NUMERICAL AND GENERAL LINEAR ACOUSTICS

SS-Field Coordinator: **Ochmann**, Martin

## NUM-01 - NUMERICAL MODELLING OF TYRE/ROAD NOISE

SS-Chair: **Kropp**, Wolfgang

- NUM-01-001-IP** Calculation of tyre noise radiation with a mixed approach  
*Philippe Jean, Jean-François Rondeau*  
Tuesday 17th, 09:00, Room 7
- NUM-01-002-IP** Numerical modelling of the tyre/road contact  
*Krister Larsson*  
Tuesday 17th, 09:20, Room 7
- NUM-01-003-IP** A wave model of a circular tyre  
*R.J.Pinnington*  
Tuesday 17th, 09:40, Room 7
- NUM-01-004-IP** Tyre noise horn effect on an absorbing road surface – semi-analytical modelling using the multipole synthesis  
*Philippe Klein*  
Tuesday 17th, 10:00, Room 7
- NUM-01-008** Modelling of the tyre radiation over absorbing surfaces using the equivalent sources method  
*François-Xavier Bécot, Wolfgang Kropp*  
Tuesday 17th, 10:20, Room 7

## NUM-02 - COMPUTACIONAL ROOM ACOUSTICS

SS-Chair: **Svensson**, Peter

- NUM-02-001-IP** A round-robin test on numerical methods for room-acoustic analysis  
*Tetsuya Sakuma, Peter Svensson, Andreas Franck, Shinich Sakamoto*  
Tuesday 17th, 10:40, Room 7
- NUM-02-002-IP** Interpolated 3-d digital waveguide mesh for room acoustic simulations  
*Lauri Savioja, Vesa Välimäki*  
Tuesday 17th, 11:00, Room 7
- NUM-02-003** Analysis of small concert halls with BEM  
*Steffen Marburg, Stefan Schneider*  
Tuesday 17th, 11:20, Room 7
- NUM-02-004-IP** Modeling Sound Reflection and Diffraction in Architectural Environments with Beam Tracing  
*Thomas Funkhouser, Nicolas Tsingos, Ingrid Carlbom, Gary Elko, Mohan Sondhi, Jim West*  
Tuesday 17th, 11:40, Room 7
- NUM-02-005-IP** Optimizing calculations of edge diffraction impulse responses for room acoustics computations  
*Rendell R.Torres, U. Peter Svensson*  
Tuesday 17th, 12:00, Room 7
- NUM-02-006-IP** An intensity - based boundary element method for analyzing broadband high frequency sound fields in enclosures

*Linda Franzoni, Jerry Rouse*  
Tuesday 17th, 15:30, Room 7

**NUM-02-007 Variable acoustics in a reverberant room: comparison between physical and numerical approaches**

*Marco Cesare-Consumi, Lamberto Tronchin, Valerio Tarabusi*  
Tuesday 17th, 15:50, Room 7

**NUM-02-008 Room shape and size estimation using directional impulse response measurements**

*Banu Gunel*  
Tuesday 17th, 16:10, Room 7

**NUM-02-009 On the use of the force density vector within room acoustics**

*Nicola Prodi*  
Tuesday 17th, 16:30, Room 7

**NUM-03 - ADVANCES AND APPLICATIONS OF COMPUTATIONAL METHODS FOR SOUND RADIATION AND SCATTERING**

*SS-Chair: Himm, Anton*

**NUM-03-001-IP The one-sided driving interaction between two monopoles - effective as the core of the 3-dimensional dfem sound power and scattering description**

*Gerhard Hübner*  
Tuesday 17th, 16:50, Room 7

**NUM-03-002-IP Construction of analytical solutions for the error estimation of acoustical boundary element solvers**

*Martin Ochmann, Alexander Osetrov*  
Tuesday 17th, 17:10, Room 7

**NUM-03-003-IP Dynamical properties of finite cylindrical steel shells with hemispherical end caps**

*Anton Himm*  
Tuesday 17th, 17:30, Room 7

**NUM-03-004-IP Resonances in external acoustics? An example of tire noise excitation**

*Steffen Marburg, Roland Rennert, Stefan Schneider, Hans-Jürgen Hardtke*  
Tuesday 17th, 17:50, Room 7

**NUM-03-005-IP Simulation of the sound radiation from wheel-like structures using the boundary element method**

*Haike Brick, Martin Ochmann, Elfriede Brenck*  
Tuesday 17th, 18:10, Room 7

**NUM-03-006-IP Reduction of structure borne sound by numerical optimization**

*Joachim Bös, Rainer Nordmann*  
Wednesday 18th, 09:00, Room 7

**NUM-03-007 An application of the noise synthesis technology (NST) to a system with an axial fan**

*Per-Olof Berglund, Leping Feng, Mats Abom*  
Wednesday 18th, 09:20, Room 7

**NUM-03-008 Application of equivalent presentations for the analysis of sound transmission loss of panels with resonant systems**

*B.M. Efimtsov, L.A. Lazarev, S.N. Baranov*

Wednesday 18th, 09:40, Room 7

**NUM-03-009 Characterisation of a servo steering pump as a source of structure borne sound**

*Carsten Spehr, Bojörn A. T. Petersson*

Wednesday 18th, 10:00, Room 7

**NUM-03-010-IP Sound reflection from a flexible structure with impedance discontinuities using local/global homogenization**

*Donald Bliss, Pavel Danilov*

Wednesday 18th, 10:20, Room 7

**NUM-04 - NUMERICAL MODELLING OF VOICE ACOUSTICS**

*SS-Chair: Kob, Malte*

**NUM-04-002-IP Efficient numerical modeling of vocal fold mechanics**

*Federico Avanzini*

Friday 20th, 10:00, Room 9

**NUM-04-003-IP Modelling dynamical effects of local morphological changes of vocal folds**

*Juergen Neubauer, Tecumseh Fitch, Hans Peter Herzel*

Friday 20th, 10:20, Room 9

**NUM-04-004-IP Numerical simulation of the vocal tract acoustics using the tlm method**

*Xavier Pelorson, Pierre Badin, Pierre Saguet, Samir El Masri*

Friday 20th, 10:40, Room 9

**NUM-05 - RECENT ADVANCES IN COMPUTATIONAL ACOUSTICS**

*SS-Co-Chairs: Pinsky, Peter; Wagner, Marcus*

**NUM-05-002-IP Subspace projection of Helmholtz problems for the efficient solution over frequency bands**

*Marcus M. Wagner; Peter M. Pinsky*

Wednesday 18th, 10:40, Room 7

**NUM-05-003-IP The ITS Method: A new iterative time scheme for solving the acoustic wave equation**

*Géza Seriani*

Wednesday 18th, 11:00, Room 7

**NUM-05-004-IP An ILU-type preconditioner for the Boundary Element Method**

*Stefan Schneider, Steffen Marburg, H.-J. Hardtke*

Wednesday 18th, 11:20, Room 7

**NUM-05-005-IP Adaptive space-time finite element methods for acoustics simulations in unbounded domains**

*Lonny Thompson, Dantong He*

Wednesday 18th, 11:40, Room 7

**NUM-05-006-IP Subspace projection of Helmholtz problems for the efficient solution over frequency bands**

*Marcus M. Wagner; Peter M. Pinsky*

Wednesday 18th, 12:00, Room 7

**NUM-05-008-IP Theory and software for krylov methods for the computation of the frequency response of large acoustic finite element models**

*Mickael Robbe, Karl Meerbengen*  
Wednesday 18th, 15:30, Room 7

**NUM-05-009 Acoustic system simulation using the transmission line matrix method**  
*Andreas Wilde, Peter Schneider*  
Wednesday 18th, 15:50, Room 7

**NUM-05-010 Rheological modelisation of a structural bond: Influence of the inertia**  
*Valentina Vlasie, Martine Rousseau*  
Wednesday 18th, 16:10, Room 7

**NUM-05-011 Spectral waveguide finite elements**  
*Andrew Peplow, Svante Finnveden, Marcus Wallenberg*  
Wednesday 18th, 16:30, Room 7

**NUM-05-012 Numerical simulation of the aerodynamic tonal noise generation in a backward-curved blades centrifugal fan**  
*Sandra Velarde, Raquel Fanjul, Rafael Ballesteros, Carlos Santolaria, Joaquin Fernández*  
Wednesday 18th, 16:50, Room 7

**NUM-06 - SPECIAL TOPICS IN NUMERICAL ACOUSTICS**  
*SS-Co-Chair: Forssén, Jeans*

**NUM-06-001-IP The application of boundary integral equation to wide barriers in turbulent medium**  
*Y. W. Lam*  
Wednesday 18th, 17:10, Room 7

**NUM-06-002-IP Fast solutions of boundary element solutions of the exterior Helmholtz equation**  
*S. Amini*  
Wednesday 18th, 17:30, Room 7

**NUM-06-003-IP A diffusion model for sound propagation through forests**  
*Jérôme Defrance, Nicolas Barriere, Eric Premat*  
Wednesday 18th, 17:50, Room 7

**NUM-06-004-IP The equivalent sources method applied to a 2d city canyon**  
*Mikael Ögren, Wolfgang Kropp*  
Wednesday 18th, 18:10, Room 7

**NUM-06-005-IP A finite element model for sound propagation in complex cities**  
*Pontus J. Thorsson*  
Thursday 19th, 09:00, Room 7

**NUM-06-006-IP Sound propagation in a turbulent atmosphere: an approach using substitute sources**  
*Jens Forssén*  
Thursday 19th, 09:20, Room 7

**NUM-06-007 Vibration analysis of a temple bell by Finite Element Method**  
*T. Nakanishi, T. Miura, T. Masaeda, A. Yagai*  
Thursday 19th, 09:40, Room 7

**NUM-07 - NEW ITERATIVE METHODS FOR FINITE ELEMENT  
AND FINITE DIFFERENCE SIMULATIONS**

*SS-Chair: Bartsch, Guido*

- NUM-07-001-IP Adaptive multigrid for robust and efficient sound field simulations**  
*Guido Bartsch*  
Thursday 19th, 10:00, Room 7
- NUM-07-002-IP Efficient iterative solution of the Helmholtz equation with an optimized PML**  
*Erkki Heikkola, Sann Mönkölä, Tuomo Rossi, Jari Toivanen*  
Thursday 19th, 10:20, Room 7
- NUM-07-003-IP Displacement versus pressure formulations in elastoacoustics: finite element approximation**  
*Alfredo Bermudez, Pablo Gamallo, Luis Hervella-Nieto, Rodolfo Rodríguez*  
Thursday 19th, 10:40, Room 7
- NUM-07-004-IP Optimization methods for the iterative solution of coupled fluid-structural problems**  
*Andreas Franck*  
Thursday 19th, 11:00, Room 7
- NUM-07-005-IP Acoustic wave modelling by double-grid spectral elements**  
*Géza Seriani*  
Thursday 19th, 11:20, Room 7
- NUM-07-006-IP Direct usage of FE surface meshes and result data for Boundary Element Method**  
*S. Schneider, S. Marburg, H.-J. Hardtke*  
Thursday 19th, 11:40, Room 7
- NUM-07-007-IP Efficient parallel iterative methods for acoustic scattering with exact nonreflecting boundaries**  
*Cristian Ianculescu, Lonny Thompson*  
Thursday 19th, 12:00, Room 7
- NUM-07-008-IP Preconditioners for acoustic problems: AILU**  
*Martin J. Gander*  
Thursday 19th, 15:30, Room 7

**NUM-08 - BOUNDARY ELEMENT METHODS IN ACOUSTICS**

*SS-Chair: Linares, José Ignacio*

- NUM-08-001-IP Evaluation of insertion losses of acoustic barriers in railways by the boundary element method**  
*José Ignacio Linares, David Gil*  
Thursday 19th, 15:50, Room 7
- NUM-08-002-IP Regularization of exact boundary integral equation for calculation of pulsed wave diffraction on strongly curved surface**  
*German A. Maximov, Dmitry N. Lesonen*  
Thursday 19th, 16:10, Room 7
- NUM-08-003-IP Boundary element methods in fluid-structure problems. Application to acoustic wave scattering**  
*José Ignacio Linares*  
Thursday 19th, 16:30, Room 7

## NUM-Gen - NUMERICAL AND GENERAL LINEAR ACOUSTICS - GENERAL

- NUM-Gen-001** Structure-borne sound power transmission through a point connection to a frame structure  
*Kari Saarinen, Timo Kärkkäinen, Seppo Aatola, Pertti Hynnä*  
Thursday 19th, 16:50, Room 7
- NUM-Gen-002** Radiation from partially open enclosures  
*J. Prager, B. Petersson*  
Thursday 19th, 17:10, Room 7
- NUM-Gen-003** Effect of the porous media transverse isotropy on sound transmission properties of double wall systems  
*J. Tran-Van, X. Olny, F. Sgard*  
Thursday 19th, 17:30, Room 7
- NUM-Gen-004** The relationship between arithmetic average of sound pressure levels in 1 or 1/3 octave bands and Zwicker's loudness  
*Ishibashi Mutsumi, Satoh Fumiaki, Tachibana Hideki*  
Thursday 19th, 17:50, Room 7
- NUM-Gen-005** On the free vibration of plates  
*F.J. Nieves, A. Bayón, F. Gascón*  
Thursday 19th, 18:10, Room 7
- NUM-Gen-006** Numerical study on correlation between aeroacoustic sources on uniformly lined cylindrical bodies placed in a statistically uniform flow  
*Takuya Oshima, Tetsuya Sakuma, Kotaroh Hirate*  
Friday 20th, 09:00, Room 7
- NUM-Gen-007** Higher-order mode effects of the nonuniformly perforated pipe  
*Tsuyoshi Nishimura, Masataka Ogura, Sohei Nishimura, Tatsuyu Ikeda*  
Friday 20th, 09:20, Room 7
- NUM-Gen-008** Fast acoustical modelling of enclosures with diffusely reflecting surfaces  
*D. Alarcão, J. L. Bento Coelho*  
Friday 20th, 09:40, Room 7
- NUM-Gen-009** On the use of hybrid methods for fast acoustical simulations in enclosures  
*D. Alarcão, J. L. Bento Coelho, T. S. Camilo, R. A. Tenenbaum*  
Friday 20th, 10:00, Room 7
- NUM-Gen-011** Thermal energy dissipation in wave propagation over a non-stratified moving medium  
*P.E. Solana Quirós, M.A. Picard López, J.V. Arizo Serrulla, J.C. Moreno Esteve, D. Martínez Rodríguez*  
Friday 20th, 10:20, Room 7
- NUM-Gen-014** On the use of the MP3 format and m sequences applied to acoustic measurement  
*J. V. C. Preto Paulo, J. L. Bento Coelho, C. R. Martins*  
Friday 20th, 10:40, Room 7
- NUM-Gen-016** Exact solutions describing soliton-like interactions in a string  
*Liguia Munteanu*  
Friday 20th, 11:00, Room 7

## PHA - PHYSICAL ACOUSTICS

### NON - NON-LINEAR ACOUSTICS

SS-Field Coordinator: **Lauterborn**, Werner

#### NON-01 - CAVITATION

SS-Chair: **Lauterborn**, Werner

**NON-01-001-IP Molecular dynamics simulations of bubble collapse at sonoluminescence conditions**

*Thomas Kurz, Burkhard Metten, Daniel Schanz, Werner Lauterborn*

Thursday 19th, 17:30, Room 4

**NON-01-002-IP Cavitation noise modeling and analyzing**

*Karel Vokurka*

Thursday 19th, 17:50, Room 4

**NON-01-003-IP Single bubble sonoluminescence in inhomogeneous medium**

*Harba Naser, Hayashi Shigeo*

Thursday 19th, 18:10, Room 4

**NON-01-004-IP Numerical modeling of the ultrasonic cavitation field and experimental evaluation of bubble density**

*B. Dubus, C. Granger, P. Mosbah, A. Moussatov, H. Schmit, L. Sztor, C. Campos-Pozuelo*

Friday 20th, 09:00, Room 4

#### NON-02 - NON-LINEAR METHODS IN EVALUATION OF MATERIALS

SS-Co-Chairs: **Hirse Korn**, Sigrun; **Campos**, Cleofe

**NON-02-002-IP Analysis of the nonlinear reverberation of titanium alloys fatigued at high amplitude ultrasonic vibration**

*K. Van Den Abeele, C. Campos-Pozuelo, J. Gallego-Juarez, F. Windels, B. Bollen*

Friday 20th, 09:20, Room 4

**NON-02-003-IP Effects of thermal relaxation on nonlinear mesoscopic elastic materials**

*Pier Paolo del Santo*

Friday 20th, 09:40, Room 4

**NON-02-004-IP Investigation of the interaction forces in thin bonded interfaces in composite materials by nonlinear ultrasonic techniques**

*Sigrund Hirsekorn, A. Koka, W. Arnold*

Friday 20th, 10:00, Room 4

**NON-02-005-IP Dynamic modelling of some nonlinear materials**

*Claes Hedberg*

Friday 20th, 10:20, Room 4

**NON-02-006-IP Nonlinear interaction of ultrasonic waves in an inhomogeneously predeformed elastic material**

*Ravasoo Arvi*

Friday 20th, 10:40, Room 4

**NON-02-007-IP Numerical modelling of the nonlinear propagation of transient acoustic signals**

*C. Campos-Pozuelo, C. Vanhille*

Friday 20th, 11:00, Room 4

**NON-02-008 Micro-damage detection using a modulation technique based on dissipative nonlinear effects**

*Vladimir Zaitsev, Vitali Gusev, Bernard Castagnede, Paul Sas*

Friday 20th, 11:20, Room 4

**NON-02-009 Third order elastic moduli measurements in soft solids using transient elastography**

*J. L. Gennisson, S. Catheline, M. Fink*

Friday 20th, 11:40, Room 4

## **PHA - PHYSICAL ACOUSTICS**

*SS-Field Coordinators: **Alippi**, Adriano; **Carbo**, Rafael*

### **PHA-01 - ACOUSTICS OF DISPERSED PARTICULATE MATTER**

*SS-Co-Chairs: **Benes**, Edward; **Gomez**, Thomas*

**PHA-01-001-IP Influence of the acoustic entrainment on aerosol particle interactions: Experimental balance of the hydrodynamic mechanisms**

*Ic'ar González, Juan A. Gallego, Enrique Riera*

Tuesday 17th, 09:00, Room 8

**PHA-01-002-IP Longitudinal and shear wave propagation in silica aerogels at ultrasonic frequencies**

*Tomás E. Gómez Álvarez-Arenas*

Tuesday 17th, 09:20, Room 8

**PHA-01-003-IP A microfluidic device for ultrasonic separation**

*Martyn Hill, Nicholas R. Harris, Rosemary Townsend, Stephen P. Beeby, Yijun Shen, Neil M. White, Jeremy J. Hawkes*

Tuesday 17th, 09:40, Room 8

**PHA-01-004 Integrated acousto optical tunable filters (AOTFs): development, technology and applications**

*M. Varasi, E. Verona*

Tuesday 17th, 10:00, Room 8

**PHA-01-005 Ultrasound at phase and structural transformations in liquid crystals**

*Sergey Pasechnik*

Tuesday 17th, 10:20, Room 8

**PHA-01-007-IP Positioning particles within liquids using ultrasound force fields**

*Jeremy J. Hawkes, Martin Gröschl, Ewald Benes, Helmut Nowotny, W. Terence Coakley*

Tuesday 17th, 10:40, Room 8

**PHA-01-009-IP Ultrasonic separation of suspended particles and splitting of emulsions**

*Ewald Benes*

Tuesday 17th, 11:00, Room 8

**PHA-01-010-IP Application of a Novel h-Shaped Ultrasonic Particle Separator under Microgravity Conditions**

*H. Böhm, LG. Briarty, KC. Lowe, JB. Power, E. Benes, MR. Davey*

Tuesday 17th, 11:20, Room 8



**PHA-01-011-IP Ultrasonically Enhanced Settling: Influence of process parameters on separation efficiency of yeast cells at 2.2 MHz**  
*Stefan Radel, Aiden J. McLoughlin, Martin Gröschl, Ewald Benes*  
Tuesday 17th, 11:40, Room 8

**PHA-01-012-IP A new ultrasound-based cell immobilisation technique**  
*Lisa Gherardini, Stefan Radel, Branka Devcic-Kuhar, Ewald Benes*  
Tuesday 17th, 12:00, Room 8

#### **PHA-Gen - PHYSICAL ACOUSTICS - GENERAL**

**PHA-Gen-001 Selfnoise reduction in acoustic measurements with a particle velocity sensor by means of a cross-correlation technique**  
*J.W. van Honschoten, W.F. Druyvesteyn, R.Raangs, G.J.M. Krijnen, M.C.Elwenspoek*  
Tuesday 17th, 15:30, Room 8

**PHA-Gen-002 Surface acoustic wave propagation in manganese oxide films**  
*Yourii Ilisavskii, Alexander Goltsev, Konstantin Dyakonov, Eduard Yakhkind, Vladimir P. Dyakonov, Andrey Klimov, Stanislav J. Lewandowski, Henryk Szymczak*  
Tuesday 17th, 15:50, Room 8

**PHA-Gen-003 Estimation of surface reflection properties by means of a new frequency shift technique**  
*Peter Holstein, Roland Müller, Gerhard Fischer, Jörn Huebelt, Felix Franck*  
Tuesday 17th, 16:10, Room 8

**PHA-Gen-004 Identification of coupling mechanical efforts using neural networks**  
*Thierry Loyau, Yvan Champoux*  
Tuesday 17th, 16:30, Room 8

**PHA-Gen-005 Crack detection by spatio-temporal gradient analysis of the acoustic surface wave field**  
*Kenbu Teramoto*  
Tuesday 17th, 16:50, Room 8

**PHA-Gen-006 The acousto-optic interaction from a fundamental point of view to its applications in non-destructive testing**  
*Oswald Leroy, Nico F. Declercq, Joris Degrieck*  
Tuesday 17th. 17:10, Room 8

**PHA-Gen-007 The dynamic behavior of the antivibrating systems consisting of rubber elements**  
*Polidor Bratu; Aurelia Mihalcea*  
Tuesday 17th, 17:30, Room 8

**PHA-Gen-008 Structural and functional requirements imposed to vibration insulator systems**  
*Polidor Bratu; Aurelia Mihalcea*  
Tuesday 17th, 17:50, Room 8

**PHA-Gen-009 Phase space analysis for a high frequency time-harmonic acoustic field in a planar waveguide**  
*Benoît Teyssandier, Claude Depollier, Vincent Pagneux, Laurent Simon*  
Tuesday 17th, 18:10, Room 8

- PHA-Gen-010** **Acoustic particle velocities measurement by means of laser doppler velocimetry: application to harmonic acoustic fields in free space with weak flow**  
*Philippe Rouquier, Bruno Gazengel, Olivier Richoux, Laurent Simon, Guy Tournois, Michel Bruneau*  
 Wednesday 18th, 09:00, Room 8
- PHA-Gen-011** **Experimental investigation of transient nonlinear phenomena in an annular thermoacoustic prime-mover**  
*Guillaume Penelet, Etienne Gaviot, Vitalyi Gusev, Pierrick Lotton, Michel Bruneau*  
 Wednesday 18th, 09:20, Room 8
- PHA-Gen-012** **Discrimination of the background media of concrete using electromagnetic impact driving method**  
*Liang Tao, Seiichi Motooka*  
 Wednesday 18th, 09:40, Room 8
- PHA-Gen-013** **Network simulation method applied to vibration of rods**  
*Enrique Castro, Maria Teresa García-Hernández, Antolino Gallego*  
 Wednesday 18th, 10:00, Room 8
- PHA-Gen-014** **Alteration of the Stability of the FxLMS algorithm caused by the use of synchronous sampling in Active Noise Control in ducts**  
*J. Hernandez, E. Gonneau, J.P. Guilhot*  
 Wednesday 18th, 10:20, Room 8
- PHA-Gen-015** **Optimalization of the acousto-optical ndt technique for thin coating evaluation**  
*F. Windels, K. Van Den Abeele, M. Wevers*  
 Wednesday 18th, 10:40, Room 8
- PHA-Gen-016** **Analysis of saw diffraction by periodic media with multi-wave coupled-wave theory**  
*Limani Myzafere*  
 Wednesday 18th, 11:00, Room 8
- PHA-Gen-017** **Análisis tiempo-frecuencia y el modelo termodinámico del “knock” en la combustión**  
*Salvador Cerdá, José Romero, Alicia Jiménez, Albert Marín, Antonio Sanchís*  
 Wednesday 18th, 11:20, Room 8
- PHA-Gen-018** **Performance analysis of simultaneous multichannel characterization of acoustic systems**  
*José J. López, Alberto González*  
 Wednesday 18th, 11:40, Room 8
- PHA-Gen-019** **Low computational cost method for solving round-off error at low frequency in digital audio equalization**  
*Germán Ramos; José J. López*  
 Wednesday 18th, 12:00, Room 8
- PHA-Gen-020** **Relaxation processes in solutions of d-glucose on the acoustic and optical data**  
*Maksimochkin Gennady*  
 Wednesday 18th, 15:30, Room 8
- PHA-Gen-021** **Interpolation of low-order HRTF filters using a zero displacement measure**  
*Huseyin Hacihabiboglu*

Wednesday 18th, 15:50, Room 8

- PHA-Gen-022 Wave propagation in self-similar structures**  
*Etienne B. du Chazaud, Vincent Gibiat, Ana Barjau*  
Wednesday 18th, 16:10, Room 8
- PHA-Gen-023 Surface and interface waves in piezoelectric sandwich plates**  
*José Maria Orellana, Bernard Collet*  
Wednesday 18th, 16:30, Room 8
- PHA-Gen-024 Characterization of geometric imperfections and determination of the thermal expansion of a spherical acoustic resonator**  
*Giuliana Benedetto, Roberto Maria Gavioso, Renato Spagnolo*  
Wednesday 18th, 16:50, Room 8
- PHA-Gen-025 Influence of time-variance in auditorium on impulse response measurement**  
*Fumiaki Satoh, Mitsuru Nagayama, Hideki Tachibana*  
Wednesday 18th, 17:10, Room 8
- PHA-Gen-026 Multi-dimensional sound field reproduction based on the finite difference time domain method**  
*Shinichi Sakamoto, Takatoshi Yokota, Hideki Tachibana*  
Wednesday 18th, 17:30, Room 8
- PHA-Gen-027 Defects in wood from aspect of physical acoustics**  
*Emil Rajcan*  
Wednesday 18th, 17:50, Room 8
- PHA-Gen-028 Recursive total least squares method for ultrasonic doppler frequency estimation**  
*Yoon Chung Kim, Jun-Seok Lim, Jun-il Song, Koeng-Mo Sung*  
Wednesday 18th, 18:10, Room 8
- PHA-Gen-029 Tridimensionnal energetic coefficients as an investigation mean of refracted waves at the interface between anisotropic media**  
*Patrick Lanceleur, Bruno Rogé*  
Thursday 19th, 09:00, Room 8
- PHA-Gen-030 Theoretical study of lamb wave conversion at the edge of different angles bevelled plates**  
*Nicolas Wilkie-Chancellor, Hugues Duflo, Alain Tinel, Jean Duclos*  
Thursday 19th, 09:20, Room 8
- PHA-Gen-031 Determination of the energy velocity of a lamb wave by means of frequency and angular quality factors**  
*Olivier Lenoir, Jean-Marc Conoir, Jean-Louis Izbicki*  
Thursday 19th, 09:40, Room 8
- PHA-Gen-032 Characterization of lamb-type waves on a cylindrical shell by means of quality factors**  
*Olivier Lenoir, Jean-Marc Conoir, Jean-Louis Izbicki*  
Thursday 19th, 10:00, Room 8
- PHA-Gen-033 Active control of structural intensity of fluid loaded plates**  
*Jungyun Won, Sabih I. Hayek*  
Thursday 19th, 10:20, Room 8

- PHA-Gen-034 Reflection waves by a submerged layer with density sound velocity and attenuation symmetrical gradients**  
*Rafael Carbó, Adriana C. Molero*  
 Thursday 19th, 10:40, Room 8
- PHA-Gen-035 The acoustic impedance measurement system using two microphones**  
*Yunseon Ryu*  
 Thursday 19th, 11:00, Rom 8
- PHA-Gen-036 The absorption and velocity of ultrasonic waves in cyclic compounds and their mixtures**  
*B. Bogumil, J. Linde, N.B. Lezhnev*  
 Thursday 19th, 11:20, Room 8
- PHA-Gen-037 Power injected into a rectangular plate excited by a turbulent boundary layer**  
*Nicolas Totaro, Jean-Louis Guyader*  
 Thursday 19th, 11:40, Room 8
- PHA-Gen-038 Polymer-polymer melted structure: experimental study of the nonlinear acoustic behavior**  
*Hugues Dufló, Jean Louis Izbicki, Costantino Creton*  
 Thursday 19th, 12:00, Room 8
- PHA-Gen-039 Acoustical measurements by adaptive system modeling**  
*Branko Somek, Martin Dadic, Sinisa Fajt*  
 Thursday 19th, 15:30, Room 8
- PHA-Gen-040 Estimated echo pulse from obstacle calculated by ftdt for aero ultrasonic sensor**  
*Nobuyuki Endoh, Yukihiisa Tanaka, Takenobu Tsuchiya*  
 Thursday 19th, 15:50, Room 8
- PHA-Gen-041 PIV study of standing waves in a resonant air column**  
*Ali Tondast-Navaei, David Sharp*  
 Thursday 19th, 16:10, Room 8
- PHA-Gen-042 Numerical computation of the acoustic properties of porous media obtained by homogeneisation techniques**  
*A. Bermúdez de Castro, J.L. Ferrín, A. Mikeli,*  
 Thursday 19th, 16:30, Room 8
- PHA-Gen-043 Point Focus Acoustic Materials Signature  $V(z)$  of Anisotropic Solids**  
*M. Deschamps, A.G. Every*  
 Thursday 19th, 16:50, Room 8
- PHA-Gen-044 Secondary cavitation waves in a polydisperse bubble cluster**  
*D.V. Voronin, G.N. Sankin V.S. Teslenko*  
 Thursday 19th, 17:10, Room 8
- PHA-Gen-045 The equalization of low frequency response in automotive space**  
*Lae-Hoon Kim, Mi-Jung Kim, Koeng-Mo Sung*  
 Thursday 19th, 17:30, Room 8
- PHA-Gen-046 Theoretical study of the multiple scattering by a random distribution of dislocations in an elastic medium**  
*Agnes Maurel, Jean-François Mercier, Fernando Lund*  
 Thursday 19th, 17:50, Room 8

- PHA-Gen-049 Nonlinear acoustics process in granular medium with visco-elastic fluid**  
*Igor Esipov*  
 Thursday 19th, 18:10, Room 8
- PHA-Gen-050 The difference frequency Doppler method for diagnostics of bubble streams**  
*Igor Didenkulov, Leonid Kustov, Alexander Maryanov, Nikolay Pronchatov-Rubtsov*  
 Friday 20th, 09:00, Room 8
- PHA-Gen-051 Semi-analytical computation of the acoustic response of arbitrary shaped objects**  
*A.W.F. Volker, M.G. Ter Morshuizen*  
 Friday 20th, 09:20, Room 8
- PHA-Gen-056 Sound measurement by laser doppler anemometry**  
*T. Schlicke, T. MacGillivray, C. Greated, R. Barham*  
 Friday 20th, 09:40, Room 8
- PHA-Gen-062 Cuts with negative poisson's ratio in some cubic and hexagonal crystals**  
*S.P. Tokmakova*  
 Friday 20th, 10:00, Room 8
- PHA-Gen-063 Propagation in 2-d prefractal wave-guides**  
*Etienne Bertaud, A. Barjau, V. Gibiat*  
 Friday 20th, 10:20, Room 8

## **PPA - PHYSIOLOGICAL, PSYCHOLOGICAL ACOUSTICS AND BIOACOUSTICS**

### **HEA - HEARING AND AUDIOLOGY**

*SS-Field Coordinator: Kollmeier, Birger*

#### **HEA-01 - ANIMAL BIOACOUSTICS**

*SS-Co-Chairs: Klump, Georg M.; Okanoya, Kazou*

- HEA-01-001-IP Passive acoustic detection of finless porpoises in the Yangtze river, China**  
*Tomonari Akamatsu*  
 Tuesday 17th, 09:00, Room 12
- HEA-01-002-IP Ultrasonic echolocation behavior of a flying bat measured by a telemetry system and a high-speed video system**  
*Hiroshi Riquimaroux, Yoshiaki Watanabe, Liang-Kong Lin*  
 Tuesday 17th, 09:20, Room 12
- HEA-01-003-IP Auditory-object recognition in echolocation**  
*Lutz Wiegrebe*  
 Tuesday 17th, 09:40, Room 12
- HEA-01-004-IP The perception of sound degradation**  
*Ulrike Langemann*  
 Tuesday 17th, 10:00, Room 12
- HEA-01-005-IP Song induced specific carc responses are modified by the partial lesion of the higher auditory areas (NCM) in bengalese finches**

*Maki Ikebuchi*  
Tuesday 17th, 10:20, Room 12

**HEA-02 - FREQUENCY AND TEMPORAL INFORMATION IN  
THE AUDITORY SYSTEM**

*SS-Co-Chairs: Verhey, Jesko; Kashino, Makio*

- HEA-02-001-IP Cochlear compression as a function of characteristic frequency in listeners with normal hearing**  
*Enrique A. López-Poveda, Christopher J. Plack, Ray Meddis,*  
Tuesday 18th, 16:50, Room 12
- HEA-02-002-IP Second-order temporal modulation transfer functions in normal-hearing and hearing-impaired listeners**  
*Christian Lorenzi, Christian Füllgrabe, Jérôme Sibellas, Frédéric Apoux*  
Tuesday 18th, 17:10, Room 12
- HEA-02-003-IP Perception of fundamental frequency fluctuation**  
*Akagi Masato*  
Tuesday 18th, 17:30, Room 12
- HEA-02-004-IP A hysteresis in a rhythm perception of tone-bursts by a gradual change in the incremental level**  
*Suzukil Yôiti; Nishimura Ryouichi; Kurosawa Tomoyuki*  
Tuesday 18th, 17:50, Room 12
- HEA-02-005-IP An auditory vocoder resynthesis of speech from an auditory mellin representation**  
*Toshio Irino, Roy D. Patterson, Hideki Kawahara*  
Tuesday 18th, 18:10, Room 12
- HEA-02-006-IP The role of spectral change detectors in temporal order judgment of tones**  
*Makio Kashino, Minae Okada*  
Wednesday 18th, 09:00, Room 12
- HEA-02-007-IP Envelope information coded in the spectral domain**  
*David McAlpine*  
Wednesday 18th, 09:20, Room 12
- HEA-02-008-IP The perception of frequency peaks and troughs: Psychophysical data and functional brain imaging data**  
*Daniel Pressnitzer, André Rupp, Laurent Demany*  
Wednesday 18th, 09:40, Room 12
- HEA-02-010 Contributions of temporal and place cues in pitch perception of absolute pitch possessors**  
*Waka Fujisaki, Makio Kashino,*  
Wednesday 18th, 10:00, Room 12

**HEA-03 - SPECTRO-TEMPORAL SIGNAL PROCESSING**

*SS-Co-Chairs: Kollmeier, Birger; Riquimaroux, Hiroshi*

- HEA-03-001-IP Specialization auditory pathways in the mole**  
*Motoi Kudo*  
Tuesday 17th, 10:40, Room 12

- HEA-03-002-IP Modelling within-channel and across-channel cues comodulation masking release**  
*Jesko L. Verhey*  
 Tuesday 17th, 11:00, Room 12
- HEA-03-003-IP Context dependency of responses to the interaural phase difference in the inferior colliculus**  
*Shigeto Furukawa, Katuhiro Maki, Hiroshi Riquimaroux, Makio Kashino*  
 Tuesday 17th, 11:20, Room 12
- HEA-03-004-IP The unreasonable effectiveness of the modulation spectrogram in psychophysics, physiology and speech processing**  
*Birger Kollmeier*  
 Tuesday 17th, 11:40, Room 12
- HEA-03-005-IP Aspects of the gap transfer illusion**  
*Yoshitaka Nakajima*  
 Tuesday 17th, 12:00, Room 12
- HEA-03-006-IP Spatio-temporal coding of speech sounds in mammalian auditory cortex**  
*Christoph Schreiner*  
 Tuesday 17th, 15:30, Room 12
- HEA-03-008-IP The direction of pitch change judged by Japanese monkeys**  
*Hiroshi Riquimaroux, Tokuro Takahashi*  
 Tuesday 17th, 15:50, Room 12
- HEA-03-009-IP Spectro-temporal Gabor features as a front end for automatic speech recognition**  
*Michael Kleinschmidt*  
 Tuesday 17th, 16:10, Room 12
- HEA-03-010-IP Auditory perception of learned vocalizations in Bengalese finches: discrepancy between behavioral and physiological measures**  
*Kazuo Okanoya, Koji Nakamura*  
 Tuesday 17th, 16:30, Room 12

## **PSY - PSYCHOACOUSTICS**

*SS-Field Coordinator: Kohlrausch, Armin*

### **PSY-01 - PHYSIOLOGICAL BASIS OF AUDITORY PERCEPTION**

*SS-Chair: Klump, Georg M.*

- PSY-01-001-IP First spike timing reveals the quantity of sound that drives the central auditory systems: Implications for psychoacoustics**  
*Peter Heil*  
 Tuesday 17th, 10:20, Room 9
- PSY-01-002-IP Spectro-temporal response fields in the inferior colliculus of awake monkey**  
*Huibert Versnel, Marcel Zwiers, John Van Opstal*  
 Tuesday 17th, 10:40, Room 9
- PSY-01-003-IP Interaural time difference coding in mammals: A revision of the Jeffress-model**  
*Benedikt Grothe, Autje Braund*  
 Tuesday 17th, 11:00, Room 9

- PSY-01-004-IP The relevance of binaural physiology for monaural psychophysics**  
*Philip X. Joris*  
 Tuesday 17th, 11:20, Room 9
- PSY-01-005-IP Pitch perception and the encoding of click trains in the mammalian ventral cochlear nucleus**  
*Daniel Pressnitzer, Alain de Cheveigné, Ian M. Winter*  
 Tuesday 17th, 11:40, Room 9
- PSY-01-006-IP Comodulation masking release: A songbird as a model**  
*Georg Klump, Ulrike Langemann, Ingo Hamann, Sonia Hofer, Andreas Nieder*  
 Tuesday 17th, 12:00, Room 9
- PSY-01-009 Influence of the acoustic impedance of headphones**  
*Jochen Kebler, Carlos G. Martín Cruzado*  
 Tuesday 17th, 15:30, Room 9
- PSY-01-011 An auditory model that explains individual differences of masking by Schroeder-phase complexes**  
*Akira Nishimura*  
 Tuesday 17th, 15:50, Room 9
- PSY-01-012 Correlations between time-frequency spectral characteristics and psychoacoustic metrics**  
*Gema Piñero, María De Diego, Alberto González*  
 Tuesday 17th, 16:10, Room 9
- PSY-01-013 Ambiente acústico en establecimientos educacionales y detección precoz de patologías auditivas en los educandos**  
*Silvia Seballos, Pedro Matamala, Luis Martínez*  
 Tuesday 17th, 16:30, Room 9

**PSY-02 - BINAURAL HEARING AND SPATIAL PERCEPTION**

*SS-Chair: Bilsen, Frans A.*

- PSY-02-001-IP Inferences from dichotic pitch for binaural modeling**  
*Frans Bilsen, Johan Raatgever*  
 Tuesday 17th, 16:50, Room 9
- PSY-02-002-IP Sensitivity in the auditory midbrain to dynamic interaural time differences in dichotic broadband noise**  
*Philip X. Joris*  
 Tuesday 17th, 17:10, Room 9
- PSY-02-003-IP On the difference between cross-correlation and EC-based binaural models**  
*Jeroen Breebaart, Steven van de Par, Armin Kohlrausch,*  
 Tuesday 17th, 17:30, Room 9
- PSY-02-004-IP Interaural Correlation Discrimination**  
*John Culling, H. Steven Colburn, Kathryn Hodder*  
 Tuesday 17th, 17:50, Room 9
- PSY-02-005-IP The role of interaural time and level differences when localizing noise in noise**  
*Jonas Braasch*  
 Tuesday 17th, 18:10, Room 9



- PSY-02-006-IP Cocktail party processing based on interaural parameters**  
*Volker Hohmann, Johannes Nix, Giso Grimm, Thomas Wittkop*  
 Wednesday 18th, 09:00, Room 9
- PSY-02-007-IP Peripheral auditory processing, the precedence effect and responses of single-units in the inferior colliculus**  
*Constantine Trahiotis, Klaus Hartung, Leslie Bernstein*  
 Wednesday 18th, 09:20, Room 9
- PSY-02-008 Influence of lead and lag differences on localization**  
*Bojan Ivancevic, Kristian Jambrošić*  
 Wednesday 18th, 09:40, Room 9
- PSY-02-009 Effects of the preceding and following tone on laterality threshold of the tone with interaural intensity difference**  
*Osamu Komoda, Tomohiro Ishiodori, Hiromitsu Miyazono, Tsuyoshi Usagawa, Masnao Ebata*  
 Wednesday 18th, 10:00, Room 9
- PSY-02-010 Comparison of subjective ratings of tonal components with model predictions with special consideration of tone to noise procedures as proposed in e DIN 45681 and ANSI s1.13**  
*Peter Daniel, Matthias Vormann, Harald Mundt*  
 Wednesday 18th, 10:20, Room 9
- PSY-02-011 Subjective assessments of the acoustic ration from steel structures: Some effects of a few parametric variations**  
*N. Hamzaoui, C. Sandier, E. Parizet, P. Wetta, C. Besseyrias*  
 Wednesday 18th, 10:40, Room 9
- PSY-02-012 Perception of the timbre of car horns**  
*Guillaume Lemaitre, Patrick Susini, Suzanne Winsberg, Stephen McAdams*  
 Wednesday 18th, 11:00, Room 9
- PSY-02-013 A comparison of the effect of random and deterministic maskers on comodulation masking release in the cochlear nucleus**  
*Jesko L. Verhey*  
 Wednesday 18th, 11:20, Room 9
- PSY-02-014 Influence of sound-directed attentional focus on overall loudness ratings**  
*Patrick Susini, Stephen McAdams*  
 Wednesday 18th, 11:40, Room 9

**PSY-03 - VIRTUAL AND REAL AUDITORY ENVIRONMENTS-AUDITORY DISPLAYS**

*SS-Chair: Bronkhorst, Adelbert*

- PSY-03-001-IP The perception of all-pass components in transfer functions**  
*Pauli Minnaar, Jan Plogsties, Søren Krarup Olesen, Flemming Christensen, Henrik Møller*  
 Wednesday 18th, 15:30, Room 9
- PSY-03-002-IP A triangulation method for determining the perceptual center of the head for auditory stimuli**  
*Douglas Brungart, Michael Neelon, Alexander Kordik, Brian Simpson*  
 Wednesday 18th, 15:50, Room 9

- PSY-03-003-IP Modeling auditory distance perception in rooms**  
*Adelbert W. Bronkhorst*  
 Wednesday 18th, 16:10, Room 9
- PSY-03-004-IP Virtual and real auditory environments**  
*Pedro Novo*  
 Wednesday 18th, 16:30, Room 9
- PSY-03-005-IP Generating realistic virtual sounds with a limited number of spectral features**  
*E. H. A. Langendijk, A. W. Bronkhorst*  
 Wednesday 18th 16:50, Room 9
- PSY-03-006-IP Cue plausibility determines cue salience localizing wideband virtual sounds**  
*Fred Wightman, Doris Kistler*  
 Wednesday 18th 17:10, Room 9

#### **PSY-04 - APPLICATIONS OF PSYCHOACOUSTICS**

*SS-Chair: Hojan, Edward*

- PSY-04-001-IP Psychoacoustics – importance and application in practice**  
*Klaus Genuit*  
 Tuesday 17th, 09:00, Room 9
- PSY-04-002-IP The Polish version of the apha method**  
*Edward Hojan, Karolina Sworek, Anna Furmann*  
 Tuesday 17th, 09:20, Room 9
- PSY-04-003-IP Psychoacoustics and hearing aids**  
*Martin Kinkel*  
 Tuesday 17th, 09:40, Room 9
- PSY-04-004-IP Recreational noise exposure and hearing effects in adolescents: fourth year of a long-term study**  
*Mario R. Serra, Ester C. Biassoni, Utz Richter, Alberto J. Carignani, Silvia Joeques, María R. Yacci, Gloria Minoldo, Silvia Abraham, Graciela Franco, Amanda R. Pollet*  
 Tuesday 17th, 10:00, Room 9

#### **PSY-05 - AUDIO-VISUAL INTERACTION**

*SS-Chair: Kohlrausch, Armin*

- PSY-05-001-IP Some methodological aspects for measuring asynchrony detection in audio-visual stimuli**  
*Steven Van de Par, Armin Kohlrausch, James F. Juola*  
 Wednesday 18th, 17:30, Room 9
- PSY-05-002-IP Influences of color on the loudness judgement**  
*Christine Patsouras, Thomas G. Filippou, Hugo Fastl*  
 Wednesday 18th, 17:50, Room 9
- PSY-05-003-IP Audio-visual sensory interactions and the statistical covariance of the natural environment**  
*Christoph Zetzsche, Florian Röhrbein, Markus Hofbauer, Kerstin Schill*  
 Wednesday 18th, 18:10, Room 9

**PSY-05-004-IP Auditory-visual interaction in real and virtual rooms**

*Pontus Larsson, Daniel Västfjäll, Mendel Kleiner*

Thursday 19th, 09:00, Room 9

**PPA-Gen - PHYSIOLOGICAL, PSYCHOLOGICAL ACOUSTICS  
AND BIOACOUSTICS - GENERAL**

**PPA-Gen-001 Long term investigations of sound attenuation changes in ear-muffs:  
preliminary results**

*Ewa Kotarbinska*

Thursday 19th, 09:20, Room 9

**PPA-Gen-002 Psychoacoustic optimization of generated audio test signals**

*Kadlec Frantisek*

Thursday 19th, 09:40, Room 9

**PPA-Gen-003 Optimización de los niveles sonoros equivalentes diarios recibidos por los  
trabajadores.**

*Albert Marín Sanchis, Alicia Giménez Pérez, Antonio Sanchis Sabater,  
José Romero Faus, Salvador Cerdá Jordá, M<sup>a</sup> Dolores Jorge Banacloy*

Thursday 19th, 10:00, Room 9

**PPA-Gen-004 Efficiency of binaural cues in a bilateral cochlear implant listener**

*B. Laback, S.M. Pok, K. Schmid, W. A. Deutsch, W. D. Baumgartner*

Thursday 19th, 10:20, Room 9

**PPA-Gen-005 Medida de la función de transferencia de un maniquí acústico**

*Rubén Pico, Jaime Ramis, Javier Redondo, Jesús Alba*

Thursday 19th, 10:40, Room 9

**PPA-Gen-006 On the implantable hydroacoustic microphone**

*Matthias Blau, Karl-Bernd Hüttenbrink, Matthias Bornitz, Thomas Zahnert,  
Gert Hofmann*

Thursday 19th, 11:00, Room 9

**PPA-Gen-007 Methodical measurement of acoustical impedance and replacement  
sensibility**

*Carlos Germán Martín Cruzado, Salvador Luna Ramírez, Jochen Kebler*

Thursday 19th, 11:20, Room 9

**PPA-Gen-009 Valoración de las pérdidas auditivas en trabajadores con exposición  
elevada al ruido**

*María Teresa Mira Llosá*

Thursday 19th, 11:40, Room 9

**SPA - SPEECH AND COMMUNICATION ACOUSTICS**

**SPE - SPEECH**

*SS-Field Coordinator: Pelorson, Xavier*

**SPE-01 - PHYSICAL AND MATHEMATICAL MODELS OF SPEECH PRODUCTION**

*SS-Chair: Pelorson, Xavier*

**SPE-01-001-IP Pressure and flow measurements in a dynamic mechanical model  
of the larynx and vocal tract**

*Anna Barney, Antonio De Stefano, Christine Shadle*  
Thursday 19th, 15:30, Room 9

**SPE-01-002-IP A physical model for voice synthesis**

*Malte Kob*

Thursday 19th, 15:50, Room 9

**SPE-01-003-IP Glottal flow models: Waveforms, spectra and physical measurements**

*Nathalie Henrich, Christophe d'Alessandro, Boris Doval*

Thursday 19th, 16:10, Room 9

**SPE-01-004-IP In vitro study of the airflow in oral cavity during speech**

*C. Ségoufin C. Pichat, Y. Payan, P. Perrier, A. Hirschberg, X. Pelorson*

Thursday 19th, 16:30, Room 9

**SPE-01-005 Finite element modelling of male vocal tract with consideration of cleft palate**

*Karel Dedouch, Jaromír Horáček, Tomát Vampola, Libor Cerný*

Thursday 19th, 16:50, Room 9

**SPE-01-006 Simulation of the influence of a cleft on acoustic characteristics of human supraglottal spaces**

*Jaromír Horáček, Pavel Krampera, Karel Dedouch, Tomáš Vampola*

Thursday 19th, 17:10, Room 9

**SPE-01-007 Production of emphasis: the progressive construction of prosodic configurations in child development**

*Marie-Ange Alexandre, Claire Gérard*

Thursday 19th, 17:30, Room 9

**SPE-01-008 The relation between perceived hypernasality of cleft palate speech and its hoarseness**

*Setsuko Imatomi, Takayuki Arai*

Thursday 19th, 17:50, Room 9

**SPA-Gen - SPEECH AND COMMUNICATION ACOUSTICS - GENERAL**

**SPA-Gen-001 Experimental investigation into the optimal use of dither**

*Preben Kvist, Karsten Bo Rasmussen, Torben Poulsen*

Wednesday 18th, 09:00, Room 11

**SPA-Gen-002 A method for recovering the power envelope from reverberant speech**

*Masashi Unoki, Masakazu Furukawa, Akagi Masato*

Wednesday 18th, 09:20, Room 11

**SPA-Gen-003 Enhancing temporal dynamics of speech to improve intelligibility in reverberant environments**

*Nao Hodoshima, Takayuki Arai, Akiko Kusumoto*

Wednesday 18th, 09:40, Room 11

**SPA-Gen-004 Temporal envelope modulation using syllable search method for robust language identification**

*Toshimasa Aoki, Masahiko Komatsu, Takayuki Arai, Yuji Murahara*

Wednesday 18th, 10:00, Room 11

**SPA-Gen-005 Critical-band compression method for digital hearing aids**

*Keiichi Yasu, Kei Kobayashi, Kohshi Shinohara, Masato Hishitani, Takayuki Arai, Yuji Murahara*

Wednesday 18th, 10:20, Room 11

- SPA-Gen-006 Discrimination of speech from environmental noises using the modulation cepstrum**  
*Takaaki Doi, Taeko Ishida, Takahito Goto; Tooru Miyoshi, Takayuki Arai, Yuji Murahara*  
Wednesday 18th, 10:40, Room 11
- SPA-Gen-007 Characterization of phonemes by means of correlation dimension**  
*F.Martínez, A. Guillamón, J.C. Alcaraz*  
Wednesday 18th, 11:00, Room 11
- SPA-Gen-008 The influence of “mother’s speech” on the child's phonologic development during the first six month of life**  
*Olga Chelibanova*  
Wednesday 18th, 11:20, Room 11
- SPA-Gen-009 An acoustic study of sounds production of children during the first postnatal year**  
*Elena E. Lyakso*  
Wednesday 18th, 11:40, Room 11
- SPA-Gen-010 Data refining hmm, a new approach to hmm based speech recognition system improvement**  
*Farbod Razzazi, Sayyadian Abolghassem*  
Wednesday 18th, 12:00, Room 11
- SPA-Gen-011 Frequency-weighting functions for speech in young and older listeners**  
*Gilbert Gaëtan, Christophe Micheyl, Christian Berger-Vachon, Lionel Collet*  
Wednesday 18th, 15:30, Room 11
- SPA-Gen-012 Intelligibility and perceived quality of spectrally-impooverished speech sounds**  
*M. Paquier, G. Gilbert, J.C. Béra, C. Berger-Vachon, C. Micheyl*  
Wednesday 18th, 15:50, Room 11
- SPA-Gen-013 Temporal effects of phonetic integration in cv syllables**  
*Sergio Feijóo, Santiago Fernández*  
Wednesday 18th, 16:10, Room 11
- SPA-Gen-014 Location of spectral cues for the perceptual identification of fricatives**  
*Sergio Feijóo, Santiago Fernández*  
Wednesday 18th, 16:30, Room 11
- SPA-Gen-015 Parametric simulation of impairments caused by telephone and voice over ip network transmission**  
*Sebastian Rehmann, Alexander Raake, Sebastian Möller*  
Wednesday 18th, 16:50, Room 11
- SPA-Gen-016 Talker identification using narrow-band speech envelope correlations**  
*Michiko Kazama, Mikio Tohyama, Yoshio Yamasaki*  
Wednesday 18th, 17:10, Room 11

## STD - STANDARDIZATION

### STD-Gen - STANDARDIZATION - GENERAL

- STD-Gen-001** Japanese industrial standards on auditory signals of consumer products  
*Kurakata Kenji*  
Friday 20th, 09:00, Room 9
- STD-Gen-002** The european directive on assessment and management of environmental noise. Variability in the noise indicators  
*S. Jiménez Díaz, R. Alsina Donadeu, P. Perera Melero, J.M<sup>a</sup>. Arriaga Sanz*  
Friday 20th, 09:20, Room 9
- STD-Gen-003** Declaration and verification of noise emission values of machinery and equipment in Russia  
*I.E. Tsukernikov, I.A. Nekrasov*  
Friday 20th, 09:40, Room 9

## ULT - ULTRASONICS

SS-Field Coordinators: **Gallego-Juárez, Juan A.**; **Ueha, Sadayuki**

### ULT-01 - BIOMEDICAL ULTRASONICS

SS-Co-Chairs: **Montero de Espinosa, Francisco**; **Thijssen, Johan M.**

- ULT-01-001-IP** Survey of developments in carc and cardiovascular ultrasound imaging  
*Nicolaas Bom, Anton F.W. Van der Steen, Charles T. Lancée, Nico De Jong, Jos R.T.C. Roelandt*  
Tuesday 17th, 15:30, Room 10
- ULT-01-003-IP** Experimental study of the microbial growth in liquid cultures using qualitative changes of the linear and non-linear ultrasonic propagation parameters  
*Luis Elvira, Francisco Montero de Espinosa, Pablo Resa, Juan Ramón Maestre*  
Tuesday 17th, 15:50, Room 10
- ULT-01-004-IP** Cell adhesion and spreading processes studied by the thickness shear mode resonator technique  
*L. Haïder, D. Le Guillou-Buffello*  
Tuesday 17th, 16:10, Room 10
- ULT-01-005-IP** Improving ultrasonic beam characteristics from segmented annular arrays  
*Oscar Martínez, Gregorio Godoy, Luis G. Ullate*  
Tuesday 17th, 16:30, Room 10
- ULT-01-006-IP** Strain Rate Imaging by Doppler ultrasound  
*Andreas Heimdal, Jan D'hooge*  
Tuesday 17th, 16:50, Room 10
- ULT-01-007-IP** Approaches towards improved ultrasonic strain rate imaging  
*Jan D'hooge, Bart Bijnens*  
Tuesday 17th, 17:10, Room 10
- ULT-01-008-IP** Ultrasonic scattering models for cancellous bone  
*Frédéric Padilla, Frédéric Jenson, Pascal Laugier*

Tuesday 17th, 17:30, Room 10

**ULT-01-009-IP Ultrasonic tissue characterization**

*Johan M. Thijssen*

Tuesday 17th, 17:50, Room 10

**ULT-01-010-IP Tumor growth inhibition by local activation of cellular sensitivity to drugs by focused acoustic shock waves**

*V. S. Teslenko, V. P. Nikolin, I. V. Mastikhin, N. G. Kolosova, V. N. Gorchakov*

Tuesday 17th, 18:10, Room 10

**ULT-01-011 Extraction of 3d fiber information from the ultrasonic rf echo signal of diffused liver diseases**

*Tadashi Yamaguchi, Hiroyuki Hachiya*

Wednesday 18th, 09:20 Room 10

**ULT-01-012 Bactericidal effect of underwater shock waves**

*Achim M. Loske, Ulises M. Alvarez, Maltie Cabello, Claudia Herrera, Alma Barajas, Fernando E. Prieto*

Wednesday 18th, 09:40, Room 10

**ULT-01-013 Tandem shock waves for extracorporeal shock wave lithotripsy**

*Achim M. Loske, Francisco Fernández, Fernando E. Prieto*

Wednesday 18th, 10:00, Room 10

**ULT-01-015 Nonlinear propagation in ultrasound contrast agent**

*Valérie Labat, Jean-Pierre Remenieras, Olivier Bou Matar, Frédéric Patat*

Wednesday 18th, 10:20, Room 10

**ULT-01-016 Acoustic properties of cancellous bone and evaluation of bone density**

*Otani Takahik, Shimoi Yuichi*

Wednesday 18th, 09:00, Room 10

**ULT-02 - HIGH POWER ULTRASONIC AND ITS APPLICATIONS**

*SS-Co-Chairs: Riera, Enrique; Ueha, Sadayuki; Dubus, Bertrand*

**ULT-02-001-IP High power ultrasound at the recuperation of fine and untrafine particles in flotation process**

*Luis Gaete Garretón*

Wednesday 18th, 10:40, Room 10

**ULT-02-002-IP Ultrasonic motor using surface acoustic wave device**

*Minoru Kuribayashi Kurosawa*

Wednesday 18th, 11:00, Room 10

**ULT-02-003-IP Characterising modal interactions in an ultrasonic cutting system**

*Andrea Cardoni, Fannon C. N. Lim, Margaret Cartmell Lucas, P. Matthew*

Wednesday 18th, 11:20, Room 10

**ULT-02-004-IP Bubble structures in acoustic cavitation: Observation and modeling of a "jellyfish"-streamer**

*R. Mettin, J. Appel, D. Krefling, R. Geisler, P. Koch, W. Lauterborn*

Wednesday 18th, 11:40, Room 10

**ULT-02-005-IP Wood drying by using high power ultrasound and infrared radiation**

*G. A. Valentino, L. Leija, E. Riera, G. Rodriguez, J. A. Gallego*

Wednesday 18th, 12:00, Room 10

- ULT-02-006-IP Ultrasonic complex vibration systems and various applications of high power ultrasonics**  
*Jiromaru Tsujino*  
 Wednesday 18th, 15:30, Room 10
- ULT-02-007-IP Sonodynamic therapy: an approach to tumor treatment utilizing sonochemical activation**  
*Shin-ichiro Umemura, Nagahiko Yumita, Ken-ichi Kawabata, Nami Sugita, Kazuaki Sasaki*  
 Wednesday 18th, 15:50, Room 10
- ULT-02-008-IP Investigation of acoustic cavitation and activation of homogeneous chemical reactions**  
*Anne-Marie Wilhelm*  
 Wednesday 18th, 16:10, Room 10
- ULT-02-014 Removal of nano-particles by using megasonic cleaning**  
*Frank Holsteyns, Guy Vereecke, Vanessa Coenen, Rita Vos, Paul W. Mertens*  
 Wednesday 18th, 16:30, Room 10
- ULT-02-015 Modeling of oil output intensification due to heating process at acoustical stimulation in a well**  
*German Maximov, Alexei Radchenko*  
 Wednesday 18th, 16:50, Room 10
- ULT-02-016 Single-bubble sonochemiluminescence in luminol solutions**  
*Shin-ichi Hatanaka, Hideto Mitome, Kyuichi Yasui, Teruyuki Kozuka, Shigeo Hayashi*  
 Wednesday 18th, 17:10, Room 10
- ULT-02-017 Thermal effects of 99,7% al melts in ultrasonic field**  
*Luminita Moraru*  
 Wednesday 18th, 17:30, Room 10
- ULT-02-018 Design and Construction of the Tuning Fork Piezoelectric Motor**  
*James R. Friend, Jun Satonobu, Kentaro Nakamura, Sadayuki Ueha, Daniel S. Stutts*  
 Wednesday 18th, 17:50, Room 10

**ULT-03 - NON-DESTRUCTIVE TESTING:  
 SYSTEMS AND APPLICATIONS; QUALITY CONTROL**  
 SS-Co-Chairs: **Wüstenberg**, Hermann; **Gomez-Ullate**, Luis; **Watanabe**, Yoshiaki;

- ULT-03-001-IP Development of a smart flexible transducer for the examination of complex components**  
*Philippe Benoist*  
 Thursday 19th, 09:00, Room 12
- ULT-03-002-IP Ultrasonic and X-ray techniques for nondestructive evaluation of wood**  
*Voichita Bucur*  
 Thursday 19th, 09:20, Room 12
- ULT-03-003-IP Analysis of a time-domain method to compute ultrasonic field through interfaces**  
*Flávio Buiochi, Oscar Martínez, Luis Gómez-Ullate, Francisco Montero de Espinosa*



Thursday 19th, 09:40, Room 12

- ULT-03-004-IP Ultrasonic nondestructive testing in oil wells**  
*Benoit Froelich*  
Thursday 19th, 10:00, Room 12
- ULT-03-005-IP On defect sizing techniques in steel components**  
*Rafael Martinez-Oña*  
Thursday 19th, 10:20, Room 12
- ULT-03-006-IP Application of ultrasonic technology for nuclear power plant inspection and monitoring**  
*Jun Senboshi, Michio Sato, Shigeru Kanemoto, Kiyoshi Iwata, Kenji Tsuji*  
Thursday 19th, 10:40, Room 12
- ULT-03-007-IP Ultrasonic material characterization by time-frequency analysis of backscattering noise**  
*L. Vergara, J. V. Fuente, J. Gosálbez, R. Miralles, I. Bosch*  
Thursday 19th, 11:00, Room 12
- ULT-03-008-IP Time-reversal techniques in non destructive testing**  
*Mathias Fink, Claire Prada, Didier Cassereau, Estelle Kerbrat*  
Thursday 19th, 11:20, Room 12
- ULT-03-009-IP Capability of segmented annular arrays to generate 3-D ultrasonic imaging**  
*Luis G. Ullate, Oscar Martínez, Mostafa Akhnaq, Francisco Montero de Espinosa*  
Thursday 19th, 11:40, Room 12
- ULT-03-010 Identification of failure in welded specimens by means of genetic algorithms**  
*Traian Badea*  
Thursday 19th, 12:00, Room 12
- ULT-03-011 Application of neural networks to condition monitoring and prediction of acoustic fatigue failures**  
*Sergey Baranov*  
Thursday 19th, 15:30, Room 12
- ULT-03-012 Acoustic emission technique to assess microfractures of metallic coatings with scratch-tests**  
*Antolino Gallego, Rosa Piotrkowski, José Ruzzante, Amado Cabo, María Teresa García-Hernández, Enrique Castro*  
Thursday 19th, 15:50, Room 12
- ULT-03-013 Defects detection on a composite structure by an optical measurement of ultrasonic surface waves**  
*Bruno Morvan, Jean-Louis Izbicki*  
Thursday 19th, 16:10, Room 12
- ULT-03-014 Ultrasonic identification techniques of defective pieces in hostile production environments.**  
*J. P. Oriá, L. A. Rentería, C. Rodríguez, M. Fernández, J. R. Llata*  
Thursday 19th, 16:30, Room 12
- ULT-03-015 Ultrasonic spectroscopy to evaluate adhesives layers**  
*Laszlo Adler, Stanislav Rokhlin*  
Thursday 19th, 16:50, Room 12

- ULT-03-016** **Watching ripples on crystals using ultrashort light pulses**  
*Oliver B. Wright, Yoshihiro Sugawara, Osamu Matsuda, Vitali E. Gusev*  
 Thursday 19th, 17:10, Room 12
- ULT-03-017** **Experimental setups for measurements at elastic properties of fresh concrete by hf ultrasonic shear waves**  
*Rudi Cop, Mladen Maletic*  
 Thursday 19th, 17:30, Room 12
- ULT-03-018** **Testing method for quick determination of fresh concrete sample quality by measurements at elastic properties of hydrating cement paste**  
*Rudi Cop, Mladen Maletic*  
 Thursday 19th, 17:50, Room 12

#### **ULT-04 - TRANSDUCERS SYSTEMS**

*SS-Co-Chairs: Pappalardo, Massimo; Ramos, Antonio; San Emeterio, José Luis*

- ULT-04-001-IP** **New designs of focussed air-coupled ultrasonic transducer**  
*D. A. Hutchins, T. J. Robertson, D. R. Billson*  
 Thursday 19th, 09:00, Room 10
- ULT-04-002-IP** **Toward a virtual laboratory for the design of acoustic imaging systems**  
*Sylvain Ballandras, Mikaël Wilm, Vincent Laude, William Daniau, Karim Dogesche, Thomas Pastureaud, Raphaël Lardat, William Steichen*  
 Thursday 19th, 09:20, Room 10
- ULT-04-003-IP** **Behaviour of the electromechanical coupling factor of cylinder shaped piezoceramics with different aspect ratios.**  
*Antonio Iula, Nicola Lamberti, Massimo Pappalardo*  
 Thursday 19th, 09:40, Room 10
- ULT-04-004-IP** **Piezoelectric transducers for air-coupled operation in the frequency range 0.3-2.5 MHz**  
*Tomás E. Gómez Álvarez-Arenas, Francisco R. Montero de Espinosa*  
 Thursday 19th, 10:00, Room 10
- ULT-04-005-IP** **Acoustic characterization of medical ultrasonic transducers**  
*Pedro Acevedo-Contla, Dilip Das-Gupta*  
 Thursday 19th, 10:20, Room 10
- ULT-04-006-IP** **Ultrasonic transducers and typical applications**  
*Werner Roye*  
 Thursday 19th, 10:40, Room 10
- ULT-04-007-IP** **Dependence of the fundamental frequencies of T.E. piezoelectric transducers on intrinsic losses and external loading**  
*José Luis San Emeterio, Antonio Ramos*  
 Thursday 19th, 11:00, Room 10
- ULT-04-008-IP** **The electromechanical coupling factor for longitudinal and transverse propagation modes**  
*Nicola Lamberti, Antonio Iula, Riccardo Carotenuto, Giosuè Caliano, Massimo Pappalardo*  
 Thursday 19th, 11:20, Room 10
- ULT-04-009-IP** **Spatial combination of time-domain signals detected by a transducer system formed by perpendicular apertures**

*Miguel A. Rodríguez*  
Thursday 19th, 11:40, Room 10

- ULT-04-010-IP Piezoelectric materials for ultrasonic transducers: review of recent developments**  
*Franck Levassort, L. Pascal Tran-Huu-Hue, Dominique Certon, Marc Lethiecq*  
Thursday 19th, 12:00, Room 10
- ULT-04-011-IP Development of a measuring head for ultrasonic in-plane paper control**  
*M J Santos, A R Ferreira, J M Perdigão, J. Velho*  
Thursday 19th, 15:30, Room 10
- ULT-04-012-IP Experimental evaluation of some narrow-band ultrasonic transducers as therapy applicators**  
*G. González, A. Azbaid, L. Leija, A. Ramos, X. Rami, J. L. San Emeterio, E. Moreno*  
Thursday 19th, 15:50, Room 10
- ULT-04-013-IP Remote unit for mobile-telephony telemetering from distributed ultrasonic transducers**  
*Miguel A. Rodríguez, Pedro T. Sanz, David Zaplana, Antonio Ramos, José L. San Emeterio*  
Thursday 19th, 16:10, Room 10
- ULT-04-014-IP Spatial patterns of the transient ultrasonic field radiated by a dual-transducer NDE probe**  
*Abdelhalim Azbaid, Antonio Ramos, Jose Luis San Emeterio, Pedro Tomás Sanz*  
Thursday 19th, 16:30, Room 10
- ULT-04-015 Circuit for continuous motional series resonant frequency and motional resistance monitoring of quartz crystal resonators by parallel capacitance compensation**  
*Antonio Arnau, Tomás Sogorb, Yolanda Jiménez, Ernesto Calvo, Marcelo Otero*  
Thursday 19th, 16:50, Room 10
- ULT-04-016 PSPICE simulation of transient responses of transducers and spike generators included in e/r ultrasonic systems**  
*A. Ruiz, A. Ramos, J. L. San Emeterio, P. T. Sanz*  
Thursday 19th, 17:10, Room 10
- ULT-04-017 Piezocomposite transducers built using ultrasound micromachining techniques**  
*Mikaël Wilm, Stanislas Clatot, Laurent Robert, Sylvain Ballandras, Eric Andrey, Jean-Jacques Boy*  
Thursday 19th, 17:30, Room 10
- ULT-04-018 Variable moving bandwidth SSP minimization for 3d ultrasound microscopy**  
*C. Cudel, M. Grevillot, J.J. Meyer, L. Simonin, S. Jacquey*  
Thursday 19th, 17:50, Room 10
- ULT-04-019 Optimisation method for ultrasonic transducers used in medical imaging**  
*Rozenn Desmare, Louis-Pascal Tran-Huu-Hue, Franck Levassort, Marc Lethiecq*  
Thursday 19th, 18:10, Room 10
- ULT-04-020 Ultrasonic responses with the tilt of the transducers**  
*Imamura Tohru*  
Friday 19th, 09:00, Room 10

**ULT-04-021**    **The parametric formation of acoustic waves in the air by using ultrasonic transducers**  
*Tadeusz Gudra, Krzysztof J. Opieliński*  
Friday 19th, 09:20, Room 10

**ULT-04-022**    **Simple analysis of insertion-loss and triple-transit-echo in SAW unidirectional transducers**  
*Jun Yamada*  
Friday 19th, 09:40, Room 10

#### **ULT-05 - ULTRASONICS IN FOOD PROCESSING**

*SS-Co-Chairs: Mulet, Antonio; Elvira, Luis*

**ULT-05-001-IP**    **Relationship between physico-chemical and ultrasonic measurements in frying olive oil**  
*Jose Benedito, Gabriela Clemente, Pablo García-Pascual, Antonio Mulet*  
Tuesday 17th, 09:00, Room 10

**ULT-05-002-IP**    **Acoustically assisted pork meat brining kinetics**  
*J. A. Carcel, J. Benedito, Y. Golás, A. Mulet*  
Tuesday 17th, 09:20, Room 10

**ULT-05-003-IP**    **Rapid analysis of select volatiles of meat and dairy products using Z-nose**  
*J. Irudayara, G. Clemente, Antonio Mulet Pons*  
Tuesday 17th, 09:40, Room 10

**ULT-05-004-IP**    **Application of high-power ultrasound for drying vegetables**  
*E. Riera-Franco de Sarabia, J.A. Gallego-Juárez, G. Rodríguez-Corral, V.M. Acosta-Aparicio, E. Andrés-Gallegos*  
Tuesday 17th, 10:00, Room 10

**ULT-05-005-IP**    **Microbial inactivation by ultrasound**  
*I. Álvarez, R. Pagán, J. Raso, S. Condón, F.J. Sala,*  
Tuesday 17th, 10:20, Room 10

**ULT-05-006-IP**    **Ultrasonic propagation and thermal changes during milk gelation processes**  
*Luis Elvira, Pablo Resa, Francisco Montero de Espinosa*  
Tuesday 17th, 10:40, Room 10

**ULT-05-007-IP**    **Ultrasound assisted thermal processing for energy-saving and mild preservation of liquid food**  
*M. Zenker, V. Heinz, D. Knorr*  
Tuesday 17th, 11:00, Room 10

**ULT-05-009-IP**    **Ultrasonic determination of a meat-based product composition**  
*S. Simal, A. Femenia, G. Clemente, P. García-Pascual, C. Rosselló*  
Tuesday 17th, 11:20, Room 10

**ULT-05-010-IP**    **Ultrasound-assisted extraction of compounds from foods**  
*M. Palma, Z. Piñeiro, M. A. Rostagno, C. G. Barroso*  
Tuesday 17th, 11:40, Room 10

#### **ULT-Gen - ULTRASONICS - GENERAL**

**ULT-Gen-001**    **Principles and selected applications of acousto-optics for ultrasonic field investigations**

*Rainer Reibold, Walter Molkenstruck, Volker Wilkens*  
Friday 20th, 09:00, Room 12

- ULT-Gen-002 Hypercomplex waves**  
*Nico F. Declercq, Joris Degrieck, Oswald Leroy*  
Friday 20th, 09:20, Room 12
- ULT-Gen-003 Acoustic scattering by two impenetrable cylinders: asymptotic approach and physical interpretation**  
*Michaël Mercier-Finidori*  
Friday 20th, 09:40, Room 12
- ULT-Gen-004 Acoustic propagation in 1d and 3d periodic media under constraints**  
*Julien Anfosso, Vincent Gibiat*  
Friday 20th, 10:00, Room 12
- ULT-Gen-005 A Study on analysis of intracranial acoustic wave propagation by the finite difference time domain method**  
*Yoko Tanikaga, Toshikazu Takizawa, Takefumi Sakaguchi, Yoshiaki Watanabe*  
Friday 20th, 10:20, Room 12
- ULT-Gen-006 Ultrasonic light diffraction experiments**  
*Antoni Sliwinski*  
Friday 20th, 10:40, Room 12
- ULT-Gen-007 Applicability of Urick's theory to the ultrasonic wave properties in the particle compounded gels**  
*Kazuto Sasaki, Mami Matsukawa, Takahiko Otani*  
Friday 20th, 11:00, Room 12
- ULT-Gen-008 Precision enhancement of doppler ultrasound spectral estimation by finding tfd optimal parameters**  
*Fabián García Nocetti, Julio Solano González, Ernesto Rubio Acosta*  
Friday 20th, 11:20, Room 12
- ULT-Gen-009 Ultrasonic binaural method for measurement of spatial coordinates**  
*R. Kazys, L. Mazeika, R. Sliteris, O. Tumsys*  
Friday 20th, 11:40, Room 12
- ULT-Gen-010 Observation of the behavior of a single micro-capsule in an acoustic standing wave. Acoustic cavitation, vibration of gas bubbles in liquids**  
*Daisuke Koyama, Nicolas Barbier, Yoshiaki Watanabe*  
Friday 20th, 12:00, Room 12

## **UNW - UNDERWATER ACOUSTICS**

*SS-Field Coordinators: Taroudakis, Michael; Ranz, Carlos*

### **UNW-01 - UNDERWATER ACOUSTICS**

*SS-Co-Chairs: Zakharia, Manell; Endoh, Nobuyuki*

- UNW-01-001-IP Simulation of underwater sound propagation in a general stratified environment by a coupled mode and a finite element method**  
*G. A. Athanassoulis, K. A. Belibassakis, V. A. Dougalis, N. A. Kampanis, D. A. Mitsoudis*  
Tuesday 17th, 09:00, Room 11

- UNW-01-002 Development and its application of parabolic equation method**  
*Tetsuo Anada, Takenobu Tsuchiya, Nobuyuki Endoh*  
Tuesday 17th, 09:20, Room 11
- UNW-01-003 Determination of elastic layered seabed parameters by plane wave resonance reflection**  
*Margarita Fokina, Vladimir Fokin, Vasiliy Kurin, Leonid M. Kustov*  
Tuesday 17th, 15:50, Room 11
- UNW-01-004-IP Sound propagation characteristics in arctic ocean calculated by elastic PE method using rotated PADE approximation**  
*Takenobu Tsuchiya, Nobuyuki Endoh, Tetsuo Anada*  
Tuesday 17th, 10:00, Room 11
- UNW-01-005-IP New numerical calculating methods for sound propagation modeling in Japan**  
*Nobuyuki Endoh, Tetsuo Anada, Takenobu Tsuchiya*  
Tuesday 17th, 10:20, Room 11
- UNW-01-006 Estimation of acoustic fluctuations of reciprocal transmission in long-range propagation at the central equatorial pacific**  
*Hiroyuki Hachiya, Yong Wang, Toshiaki Nakamura, Iwao Nakano*  
Tuesday 17th, 10:40, Room 11
- UNW-01-007 Specific features of underwater "acoustic climate" of the Gulf of Gdansk**  
*Eugeniusz Kozaczka, Grazyna Grelowska*  
Tuesday 17th. 11:00, Room 11
- UNW-01-008 Convergence characteristics of phase conjugate waves in SOFAR channels**  
*Jun Naoi, Toshio Tsuchiya, Toshiaki Kikuchi*  
Tuesday 17th, 11:20, Room 11
- UNW-01-009 Change of pulses propagating in SOFAR Channel by moving front**  
*Hideaki Saito, Toshio Tsuchiya, Toshiaki Kikuchi*  
Tuesday 17th, 11:40, Room 11
- UNW-01-010-IP Matched-peak inversion in ocean acoustic travel-time tomography**  
*Emmanuel K. Skarsoulis*  
Tuesday 17th, 12:00, Room 11
- UNW-01-011 A multifrequency scintillation sensing of range dependent current**  
*Igor Esipov, Mikhail Charnotskii, Iosif Fuks, Konstantin Naugolnykh*  
Tuesday 17th, 15:30, Room 11
- UNW-01-012 Effect of gradients in inhomogeneous media on plane wave reflection coefficient resonance**  
*Margarita Fokina, Vladimir Fokin*  
Tuesday 17th, 09:40, Room 11
- UNW-01-013 The non-linear method of gas bubbles detection in the bottom sediments**  
*Jaromir Jakacki, Zygmunt Klusek, Jaroslaw Tegowski*  
Tuesday 17th, 16:10, Room 11
- UNW-01-014 Acoustical recognition of the bottom sediments in the southern Baltic Sea**  
*Jaroslaw Tegowski*  
Tuesday 17th, 16:30, Room 11

- UNW-01-015**    **Diagnosis of the ship's technical state by means of the noise rated into the sea**  
*Ignacy Gloza, Eugeniusz Kozaczka*  
 Thursday 19th, 09:00, Room 11
- UNW-01-016**    **Acoustic signature of two Spanish oceanographic ships**  
*J. Salvador Santiago, Rafael Carbó*  
 Thursday 19th, 09:20, Room 11
- UNW-01-017**    **Spatial resolution enhancement through environmental effects with the time reversal operator decomposition**  
*Thomas Folégot, Claire Prada, Mathias Fink*  
 Thursday 19th, 12:00, Room 11
- UNW-01-018**    **Computed aided semiautomatic determination, at laboratory level, of the sound speed in solids, liquids and gases**  
*Carlos Ranz Guerra, Alejandro Fernández Fernández*  
 Thursday 19th, 09:40, Room 11
- UNW-01-019**    **Optimization of the neural network architecture in underwater object classification**  
*Soszyski Przemysaw*  
 Thursday 19th, 10:00, Room 11
- UNW-01-020-IP** **New acoustic technologies for quantifying and indentifying fish**  
*Masahiko Furusawa*  
 Thursday 19th, 10:20, Room 11
- UNW-01-021**    **D-seismic: A very flexible low cost hardware/software- system for acquisition, real time and post processing of seismic data of Ross sea (artartica 2002 expedition)**  
*Francesco Giordano, Raffaele Giordano, Nicola Corradi*  
 Thursday 19th, 10:40, Room 11
- UNW-01-022**    **Time-varied-gain correction for digital echosounders**  
*Marek Moszynski, Andrzej Stepnowski*  
 Thursday 19th, 11:00, Room 11
- UNW-01-023**    **3D visualization of seabed from multibeam sonar records using triangular irregular mesh**  
*Jerzy Demkowicz, Marek Moszynski, Andrzej Stepnowski*  
 Thursday 19th, 11:20, Room 11
- UNW-01-024**    **Statistical evaluation of the underwater detection**  
*Kosta Ugrinovic*  
 Thursday 19th, 11:40, Room 11
- UNW-01-025-IP** **Virtual time reversal in underwater acoustic communications: results on the INTIFANTE'00 sea trial**  
*S.M. Jesus, A.J. Silva*  
 Tuesday 17th, 16:50, Room 11

## FORUM TIME TABLE



## FORUM ACUSTICUM SEVILLA 2002

**DAY: TUESDAY, 17th**

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9	ROOM 10	ROOM 11	ROOM 12
09:00-09:20	RBA-01-001	RBA-05-001	ELE-01-001	NOI-01-001	NOI-04-001	MUS-01-001	NUM-01-001	PHA-01-001	PSY-04-001	ULT-05-001	UNW-01-001	HEA-01-001
09:20-09:40	RBA-01-002	RBA-05-002	ELE-01-002	NOI-01-002	NOI-04-002	MUS-01-002	NUM-01-002	PHA-01-002	PSY-04-002	ULT-05-002	UNW-01-002	HEA-01-002
09:40-10:00	RBA-01-003	RBA-05-003	ELE-01-003	NOI-01-004	NOI-04-003	MUS-01-003	NUM-01-003	PHA-01-003	PSY-04-003	ULT-05-003	UNW-01-012	HEA-01-003
10:00-10:20	RBA-01-005	RBA-05-004	ELE-01-004	NOI-01-005	NOI-04-004	MUS-01-004	NUM-01-004	PHA-01-004	PSY-04-004	ULT-05-004	UNW-01-004	HEA-01-004
10:20-10:40	RBA-01-006	RBA-05-005	ELE-01-005	NOI-01-006	NOI-04-005	MUS-01-005	NUM-01-008	PHA-01-005	PSY-01-001	ULT-05-005	UNW-01-005	HEA-01-005
10:40-11:00	RBA-01-007	RBA-05-006	ELE-01-006	NOI-01-007	NOI-04-006	MUS-01-006	NUM-02-001	PHA-01-007	PSY-01-002	ULT-05-006	UNW-01-006	HEA-03-001
11:00-11:20	RBA-01-008	RBA-05-007	ELE-01-007	NOI-01-008	NOI-04-007	MUS-01-007	NUM-02-002	PHA-01-009	PSY-01-003	ULT-05-007	UNW-01-007	HEA-03-002
11:20-11:40	RBA-01-009	RBA-05-008	ELE-01-008	NOI-01-009	NOI-04-008	MUS-01-008	NUM-02-003	PHA-01-010	PSY-01-004	ULT-05-009	UNW-01-008	HEA-03-003
11:40-12:00	RBA-01-010	RBA-05-009	ELE-01-009	NOI-01-010	NOI-04-010	MUS-01-009	NUM-02-004	PHA-01-011	PSY-01-005	ULT-05-010	UNW-01-009	HEA-03-004
12:00-12:20		RBA-05-010	ELE-01-010		NOI-04-011	MUS-01-010	NUM-02-005	PHA-01-012	PSY-01-006		UNW-01-010	HEA-03-005
12:30-13:30	<b>KEYNOTE LECTURE KL-02</b>											
13:30-15:30	<b>L U N C H</b>											
15:30-15:50	RBA-02-001	RBA-05-011	ELE-01-011	NOI-02-001	NOI-04-012	MUS-02-001	NUM-02-006	PHA-Gen-001	PSY-01-009	ULT-01-001	UNW-01-011	HEA-03-006
15:50-16:10	RBA-02-002	RBA-05-012	ELE-01-012	NOI-02-002	NOI-04-013	MUS-02-002	NUM-02-007	PHA-Gen-002	PSY-01-011	ULT-01-003	UNW-01-003	HEA-03-008
16:10-16:30	RBA-02-003	RBA-05-014	ELE-01-013	NOI-02-003	NOI-04-014	MUS-02-003	NUM-02-008	PHA-Gen-003	PSY-01-012	ULT-01-004	UNW-01-013	HEA-03-009
16:30-16:50	RBA-02-004	RBA-05-015	ELE-02-001	NOI-02-004	NOI-04-015	MUS-02-005	NUM-02-009	PHA-Gen-004	PSY-01-013	ULT-01-005	UNW-01-014	HEA-03-010
16:50-17:10	RBA-02-005	RBA-05-016	ELE-02-002	NOI-02-005	NOI-04-016	MUS-03-001	NUM-03-001	PHA-Gen-005	PSY-02-001	ULT-01-006	UNW-01-025	HEA-02-001
17:10-17:30	RBA-02-006	RBA-05-017	ELE-02-003	NOI-02-006	NOI-04-017	MUS-03-002	NUM-03-002	PHA-Gen-006	PSY-02-002	ULT-01-007		HEA-02-002
17:30-17:50	RBA-02-007	RBA-05-018	ELE-02-004	NOI-02-007	NOI-04-018	MUS-03-003	NUM-03-003	PHA-Gen-007	PSY-02-003	ULT-01-008		HEA-02-003
17:50-18:10	RBA-02-008	RBA-06-001	ELE-02-005	NOI-02-008	NOI-05-001	MUS-03-004	NUM-03-004	PHA-Gen-008	PSY-02-004	ULT-01-009		HEA-02-004
18:10-18:30	RBA-02-009	RBA-06-002	ELE-02-006	NOI-02-009	NOI-05-002	MUS-03-006	NUM-03-005	PHA-Gen-009	PSY-02-005	ULT-01-010		HEA-02-005

## FORUM ACUSTICUM SEVILLA 2002

**DAY: WEDNESDAY, 18th**

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9	ROOM 10	ROOM 11	ROOM 12
09:00-09:20	RBA-02-010	RBA-06-003	ELE-02-007	NOI-02-010	NOI-05-003	MUS-04-001	NUM-03-006	PHA-Gen-010	PSY-02-006	ULT-01-016	SPA-Gen-001	HEA-02-006
09:20-09:40	RBA-02-011	RBA-06-004	ELE-02-008	NOI-02-011	NOI-05-004	MUS-04-002	NUM-03-007	PHA-Gen-011	PSY-02-007	ULT-01-011	SPA-Gen-002	HEA-02-007
09:40-10:00	RBA-02-012	RBA-06-005	ELE-02-009	NOI-02-012	NOI-05-005	MUS-04-003	NUM-03-008	PHA-Gen-012	PSY-02-008	ULT-01-012	SPA-Gen-003	HEA-02-008
10:00-10:20	RBA-02-013	RBA-CIB-001	ELE-02-010	NOI-02-013	NOI-05-006	MUS-04-004	NUM-03-009	PHA-Gen-013	PSY-02-009	ULT-01-013	SPA-Gen-004	HEA-02-010
10:20-10:40	RBA-02-014	RBA-CIB-002	ELE-03-001	NOI-02-014	NOI-05-007	MUS-04-005	NUM-03-010	PHA-Gen-014	PSY-02-010	ULT-01-015	SPA-Gen-005	
10:40-11:00	RBA-02-015	RBA-CIB-003	ELE-03-002	NOI-02-015	NOI-05-008	MUS-04-006	NUM-05-002	PHA-Gen-015	PSY-02-011	ULT-02-001	SPA-Gen-006	
11:00-11:20	RBA-02-017	RBA-CIB-004	ELE-05-001	NOI-03-001	NOI-05-009	MUS-04-007	NUM-05-003	PHA-Gen-016	PSY-02-012	ULT-02-002	SPA-Gen-007	
11:20-11:40	RBA-02-018	RBA-CIB-005	ELE-05-002	NOI-03-002	NOI-05-010	MUS-04-008	NUM-05-004	PHA-Gen-017	PSY-02-013	ULT-02-003	SPA-Gen-008	
11:40-12:00	RBA-02-020	RBA-CIB-006	ELE-05-003	NOI-03-003	NOI-05-011	MUS-04-009	NUM-05-005	PHA-Gen-018	PSY-02-014	ULT-02-004	SPA-Gen-009	
12:00-12:20	RBA-02-021	RBA-CIB-007		NOI-03-004	NOI-05-013		NUM-05-006	PHA-Gen-019		ULT-02-005	SPA-Gen-010	
12:30-13:30	<b>KEYNOTE LECTURE KL-03</b>											
13:30-15:30	<b>L U N C H</b>											
15:30-15:50	RBA-03-001	RBA-CIB-008	ELE-Gen-001	NOI-03-005	NOI-07-001	MUS-05-001	NUM-05-008	PHA-Gen-020	PSY-03-001	ULT-02-006	SPA-Gen-011	
15:50-16:10	RBA-03-003	RBA-CIB-009	ELE-Gen-002	NOI-03-006	NOI-07-002	MUS-05-002	NUM-05-009	PHA-Gen-021	PSY-03-002	ULT-02-007	SPA-Gen-012	
16:10-16:30	RBA-03-004	RBA-CIB-010	ELE-Gen-003	NOI-03-007	NOI-07-003	MUS-05-003	NUM-05-010	PHA-Gen-022	PSY-03-003	ULT-02-008	SPA-Gen-013	
16:30-16:50	RBA-03-005	RBA-CIB-011	ELE-Gen-004	NOI-03-008	NOI-07-004	MUS-06-001	NUM-05-011	PHA-Gen-023	PSY-03-004	ULT-02-014	SPA-Gen-014	
16:50-17:10	RBA-04-001	RBA-CIB-012	ELE-Gen-005	NOI-03-009	NOI-07-005	MUS-06-003	NUM-05-012	PHA-Gen-024	PSY-03-005	ULT-02-015	SPA-Gen-015	
17:10-17:30	RBA-04-002	RBA-CIB-013	ELE-Gen-006	NOI-03-010	NOI-07-006	MUS-06-004	NUM-06-001	PHA-Gen-025	PSY-03-006	ULT-02-016	SPA-Gen-016	
17:30-17:50	RBA-04-003	ARC-Gen-001	ELE-Gen-007	NOI-03-011	NOI-07-007	MUS-06-005	NUM-06-002	PHA-Gen-026	PSY-05-001	ULT-02-017		
17:50-18:10	RBA-04-004	ARC-Gen-002	ELE-Gen-008	NOI-03-012	NOI-07-008	MUS-06-006	NUM-06-003	PHA-Gen-027	PSY-05-002	ULT-02-018		
18:10-18:30	RBA-04-006	ARC-Gen-003	ELE-Gen-009		NOI-07-009	MUS-06-007	NUM-06-004	PHA-Gen-028	PSY-05-003			

## FORUM ACUSTICUM SEVILLA 2002

**DAY: THURSDAY, 19th**

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9	ROOM 10	ROOM 11	ROOM 12
09:00-09:20	RBA-04-007	ARC-Gen-004	MAT-01-001	NOI-06-001	NOI-07-010	MUS-06-008	NUM-06-005	PHA-Gen-029	PSY-05-004	ULT-04-001	UNW-01-015	ULT-03-001
09:20-09:40	RBA-04-008	ARC-Gen-005	MAT-01-002	NOI-06-002	NOI-07-011	MUS-06-009	NUM-06-006	PHA-Gen-030	PPA-Gen-001	ULT-04-002	UNW-01-016	ULT-03-002
09:40-10:00	RBA-04-009	ARC-Gen-006	MAT-01-003	NOI-06-003	NOI-07-012	MUS-06-010	NUM-06-007	PHA-Gen-031	PPA-Gen-002	ULT-04-003	UNW-01-018	ULT-03-003
10:00-10:20	RBA-04-010	ARC-Gen-007	MAT-01-004	NOI-06-005	NOI-07-013	MUS-06-011	NUM-07-001	PHA-Gen-032	PPA-Gen-003	ULT-04-004	UNW-01-019	ULT-03-004
10:20-10:40	RBA-04-011	ARC-Gen-008	MAT-01-005	NOI-06-006	NOI-07-014	MUS-06-012	NUM-07-002	PHA-Gen-033	PPA-Gen-004	ULT-04-005	UNW-01-020	ULT-03-005
10:40-11:00	RBA-04-012	ARC-Gen-009	MAT-01-006	NOI-06-007	NOI-07-015	MUS-06-013	NUM-07-003	PHA-Gen-034	PPA-Gen-005	ULT-04-006	UNW-01-021	ULT-03-006
11:00-11:20	RBA-04-013	ARC-Gen-010	MAT-01-007	NOI-06-008	NOI-07-016	MUS-06-014	NUM-07-004	PHA-Gen-035	PPA-Gen-006	ULT-04-007	UNW-01-022	ULT-03-007
11:20-11:40	RBA-04-014	ARC-Gen-012	MAT-01-008	NOI-06-009	NOI-07-017	MUS-06-015	NUM-07-005	PHA-Gen-036	PPA-Gen-007	ULT-04-008	UNW-01-023	ULT-03-008
11:40-12:00	RBA-04-015	ARC-Gen-013	MAT-01-009	NOI-06-010	NOI-07-018		NUM-07-006	PHA-Gen-037	PPA-Gen-009	ULT-04-009	UNW-01-024	ULT-03-009
12:00-12:20	RBA-04-016	ARC-Gen-014	MAT-01-010	NOI-06-011	NOI-07-019		NUM-07-007	PHA-Gen-038		ULT-04-010	UNW-01-017	ULT-03-010
12:30-13:30	<b>KEYNOTE LECTURE KL-04</b>											
13:30-15:30	<b>L U N C H</b>											
15:30-15:50	RBA-04-017	ARC-Gen-015	MAT-01-011	NOI-06-012	NOI-07-020	MUS-Gen-001	NUM-07-008	PHA-Gen-039	SPE-01-001	ULT-04-011	ENV-Gen-001	ULT-03-011
15:50-16:10	RBA-04-018	ARC-Gen-016	MAT-01-012	NOI-06-013	NOI-07-021	MUS-Gen-002	NUM-08-001	PHA-Gen-040	SPE-01-002	ULT-04-012	ENV-Gen-002	ULT-03-012
16:10-16:30	RBA-04-021	ARC-Gen-017	MAT-01-013	NOI-06-014	NOI-07-022	MUS-Gen-004	NUM-08-002	PHA-Gen-041	SPE-01-003	ULT-04-013	ENV-Gen-003	ULT-03-013
16:30-16:50	RBA-07-001	OSP-01-001	MAT-01-015	NOI-06-015	NOI-07-023	MUS-Gen-005	NUM-08-003	PHA-Gen-042	SPE-01-004	ULT-04-014	ENV-Gen-004	ULT-03-014
16:50-17:10	RBA-07-002	OSP-01-002	MAT-01-016	NOI-06-016		MUS-Gen-006	NUM-Gen-001	PHA-Gen-043	SPE-01-005	ULT-04-015	ENV-Gen-005	ULT-03-015
17:10-17:30	RBA-07-003	OSP-01-003	MAT-01-017	NOI-06-017		MUS-Gen-007	NUM-Gen-002	PHA-Gen-044	SPE-01-006	ULT-04-016	ENV-Gen-006	ULT-03-016
17:30-17:50	RBA-07-004	OSP-01-004	MAT-01-018	NON-01-001			NUM-Gen-003	PHA-Gen-045	SPE-01-007	ULT-04-017	ENV-Gen-008	ULT-03-017
17:50-18:10	RBA-07-005	OSP-01-005	MAT-01-019	NON-01-002			NUM-Gen-004	PHA-Gen-046	SPE-01-008	ULT-04-018	ENV-Gen-009	ULT-03-018
18:10-18:30	RBA-07-006	OSP-01-006	MAT-01-020	NON-01-003			NUM-Gen-005	PHA-Gen-049		ULT-04-019	ENV-Gen-010	

## FORUM ACUSTICUM SEVILLA 2002

**DAY: FRIDAY, 20th**

TIME	ROOM 1	ROOM 2	ROOM 3	ROOM 4	ROOM 5	ROOM 6	ROOM 7	ROOM 8	ROOM 9	ROOM 10	ROOM 11	ROOM 12
09:00-09:20	RBA-08-001	OSP-01-007	MAT-01-021	NON-01-004	STA-01-001	EDU-01-001	NUM-Gen-006	PHA-Gen-050	STD-Gen-001	ULT-04-020	ENV-Gen-011	ULT-Gen-001
09:20-09:40	RBA-08-002	OSP-01-008	MAT-01-024	NON-02-002	STA-01-002	EDU-01-002	NUM-Gen-007	PHA-Gen-051	STD-Gen-002	ULT-04-021	ENV-Gen-012	ULT-Gen-002
09:40-10:00	RBA-08-003	OSP-01-009	MAT-01-025	NON-02-003	STA-01-003	EDU-01-003	NUM-Gen-008	PHA-Gen-056	STD-Gen-003	ULT-04-022	ENV-Gen-013	ULT-Gen-003
10:00-10:20	RBA-08-005	OSP-01-010		NON-02-004	STA-01-004	EDU-01-004	NUM-Gen-009	PHA-Gen-062	NUM-04-002		ENV-Gen-014	ULT-Gen-004
10:20-10:40	RBA-08-007	OSP-01-011		NON-02-005	STA-01-005	EDU-01-005	NUM-Gen-011	PHA-Gen-063	NUM-04-003		ENV-Gen-015	ULT-Gen-005
10:40-11:00		OSP-01-012		NON-02-006	STA-01-006	EDU-01-006	NUM-Gen-014		NUM-04-004		ENV-Gen-016	ULT-Gen-006
11:00-11:20				NON-02-007		EDU-01-007	NUM-Gen-016				ENV-Gen-017	ULT-Gen-007
11:20-11:40				NON-02-008							ENV-Gen-018	ULT-Gen-008
11:40-12:00				NON-02-009							ENV-Gen-019	ULT-Gen-009
12:00-12:20											ENV-Gen-020	ULT-Gen-010
12:30-13:30	<b>KEYNOTE LECTURE KL-05</b>											
13:30-14:00	<b>CLOSING ACT</b>											
14:00	<b>FAREWELL PARTY</b>											

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Bezjak, Mladen	NOI-02-008
Biassoni, Ester C.	PSY-04-004-IP
Biho, Shiraishi	NOI-07-014
Bijnens, Bart	ULT-01-007-IP
Bijsterbosch, K.B.A	RBA-02-012-IP
Billson, D.R.	ULT-04-001-IP
Bilsen, Frans	PSY-02-001-IP
Bite, Pál Zoltán	NOI-06-015
Blanc-Benon, Philippe	OSP-01-003-IP
Blau, Matthias	PPA-Gen-006 RBA-02-006-IP
Blauert, Jens	RBA-01-001-IP RBA-02-009-IP
Bleda, S.	ELE-02-007
Bleda, S.	RBA-08-005
Bliss, Donald	NUM-03-010-IP
Bodden, Markus	ELE-01-009
Bogumil, B.	PHA-Gen-036
Böhm, H.	PHA-01-010-IP
Bollen, B.	NON-02-002-IP
Bom, Nicolaas	ULT-01-001-IP
Bonsi, Davide	MUS-02-001-IP MUS-02-003-IP
Bornitz, Matthias	PPA-Gen-006
Bös, Joachim	NUM-03-006-IP

Bosch, I.	ULT-03-007-IP	Cera, Stefano	RBA-01-009-IP	David, Bertrand	MUS-06-010
Bote, Daniel	NOI-03-012	Cerdá Jordá, Salvador	PPA-Gen-003 PHA-Gen-017	De Arcas, G.	ELE-05-002
Botteldooren, Dick	NOI-06-007 OSP-01-007	Cerný, Libor	SPE-01-005	De Baets, B.	MUS-01-002-IP
Bou Matar, Olivier	ULT-01-015	Certon, Dominique	ULT-04-010-IP	De Barrios Carro, M.	NOI-06-012
Boulanger, Patrice	OSP-01-002-IP	Cesare-Consumi, Marco	NUM-02-007	De Diego, María	PSY-01-012 ELE-01-006-IP
Boy, Jean-Jacques	ULT-04-017	Chaigne, Antoine	MUS-06-006-IP MUS-06-012	De Geetere, Lieven	RBA-06-004
Braasch, Jonas	ELE-Gen-006 MUS-06-011 PSY-02-005-IP	Champoux, Yvan	PHA-Gen-004	De Jong, Nico	ULT-01-001-IP
Bragança, Luis	ARC-Gen-010 RBA-CIB-012-IP	Chareyron, Delphine	MUS-06-005-IP	De la Colina, Carlos	NOI-03-012 RBA-04-016
Brambilla, Giovanni	NOI-04-007-IP	Charnotskii, Mikhail	UNW-01-011	De la Cuadra, Patricio	MUS-06-014
Brandenburg, Karlheinz	MUS-05-002-IP	Chazaud, Etienne B. du	PHA-Gen-022	De Lorenzo, A.	RBA-04-013
Bratu, Polidor	PHA-Gen-007 PHA-Gen-008	Chelibanova, Olga	SPA-Gen-008	De Man, Pierre	ELE-01-005-IP
Braund, Autje	PSY-01-003-IP	Cheveigné, Alain de	PSY-01-005-IP	De Melo, Gustavo da S. V.	MAT-01-021
Breebaart, Jeroen	PSY-02-003-IP	Chiroiu, Veturia	ELE-01-013	De Meyer, H.	MUS-01-002-IP
Brenck, Elfriede	NUM-03-005-IP	Choi, Chulmin	MUS-03-006	De Muer, Tom	NOI-06-007
Briarty, L. G.	PHA-01-010-IP	Choi, In Yong	MUS-01-009	De Rozas, M.J.	RBA-04-013
Brick, Haike	NUM-03-005-IP	Christensen, Claus Lyng	RBA-05-010-IP	De Stefano, Antonio	SPE-01-001-IP
Bröer, Christian	NOI-05-008-IP	Christensen, Flemming	PSY-03-001-IP	Deblander, Jean-Philippe	RBA-04-012
Bronkhorst, Adelbert W	PSY-03-003-IP PSY-03-005-IP	Cirillo, Ettore	ARC-Gen-004 RBA-05-016	Declercq, Nico F.	PHA-Gen-006 ULT-Gen-002
Bron-van der Jagt, Susanne	RBA-04-014 RBA-04-015	Clarisse, L. P.	MUS-01-002-IP	Dedouch, Karel	SPE-01-006 SPE-01-005
Bruneau, Michel	PHA-Gen-010 PHA-Gen-011	Clatot, Stanislas	ULT-04-017	Defrance, Jérôme	OSP-01-005-IP NUM-06-003-IP
Brungart, Douglas	PSY-03-002-IP	Clemente, Gabriela	ULT-05-001-IP ULT-05-003-IP ULT-05-009-IP	Degriek, Joris	PHA-Gen-006 ULT-Gen-002
Bucur, Voichita	ULT-03-002-IP	Coakley, W. Terence	PHA-01-007-IP	Dejan, Ciric	ARC-Gen-008
Buiochi, Flavio	ULT-03-003-IP	Cobo Parra, Pedro	ELE-01-010 ELE-01-011	Del Santo, Pier Paolo	NON-02-003-IP
Bullinger, Monika	NOI-05-011-IP	Coenen, Vanessa	ULT-02-014	Delgado Portela, Ana	ARC-Gen-006
Bullmore, Andrew J.	ENV-Gen-014	Colburn, H. Steven	PSY-02-004-IP	Demany, Laurent	HEA-02-008-IP
<b>C</b>		Collet, Bernard	PHA-Gen-023	Demkowicz, Jerzy	UNW-01-023
Cabello, Maltie	ULT-01-012	Collet, Lionel	SPA-Gen-011	Denia, F. D.	ENV-Gen-004
Cabeza, Oscar	MAT-01-015 MAT-01-016 MAT-01-023	Condón, S.	ULT-05-005-IP	Depollier, Claude	MAT-01-008-IP PHA-Gen-009
Cabo, Amado	ULT-03-012	Conoir, Jean-Marc	PHA-Gen-031 PHA-Gen-032	Derveaux, Grégoire	MUS-06-012
Cacciolati, C.	STA-01-002-IP	Conway, Christina	MAT-01-025	Desarnaulds, Victor	RBA-05-003-IP
Caliano, Giosuè	ULT-04-008-IP	Cop, Rudi	ULT-03-017 ULT-03-018	Deschamps, M.	PHA-Gen-043
Calixto, Alfredo	NOI-07-010 NOI-07-011	Corcoran, David	MAT-01-025	Desmare, Rozenn	ULT-04-019
Calvo, Ernesto	ULT-04-015-IP	Corradí, Nicola	UNW-01-021	Deutsch, W. A.	PPA-Gen-004
Camilo, T. S.	NUM-Gen-009	Cortés, Azucena	RBA-04-013 NOI-04-017 RBA-CIB-010-IP	Devic-Kuhar, Branka	PHA-01-012-IP
Campbell, D. M.	MUS-04-005 MUS-04-007	Cortis, A.	MAT-01-002-IP	Di Bella, Antonino	MAT-01-012
Campbell, Murray	MUS-06-004-IP MUS-Gen-004	Coste, Olivier	NOI-03-006-IP	Didenkulov, Igor	ELE-Gen-008 PHA-Gen-050
Campos-Pozuelo, C.	NON-01-004-IP NON-02-002-IP NON-02-007-IP	Cox, Trevor J.	RBA-06-003-IP	Diniz, Fabiano B.	NOI-07-011 NOI-07-010
Canagarajah, C. Nishan	MUS-01-007	Cozens, John	ELE-02-002	Djelani, Thomas	RBA-01-001-IP
Canévet, Georges	ENV-Gen-006	Craik, Robert J.M.	RBA-CIB-010-IP	Djurek, Ivan	ELE-02-008
Capdevila, R.	ENV-Gen-010	Creton, Costantino	PHA-Gen-038	Dogesche, Karim	ULT-04-002-IP
Carbó, Rafael	PHA-Gen-034 UNW-01-016	Cross, Ian	MUS-02-002-IP	Doi, Takaaki	SPA-Gen-006
Carcel, J. A.	ULT-05-002-IP	Cruz, David	RBA-05-015	Dominguez Huerta, Julián	MAT-01-007-IP
Cardoni, Andrea	ULT-02-003-IP	Cudel, C.	ULT-04-018	Dominguez Uría, Sandra	ENV-Gen-020
Carignani, Alberto J.	PSY-04-004-IP	Cueto, José Luis	ENV-Gen-009	Dougalis, V. A	UNW-01-001-IP
Carlbom, Ingrid	NUM-02-004-IP	Culling, John F.	PSY-02-004-IP	Doval, Boris	SPE-01-003-IP
Carlsson, Peter	MUS-06-009 MUS-Gen-001	Cummings, Alan	MAT-01-003-IP	Druyvesteyn, W.F.	PHA-Gen-001
Carotenuto, Riccardo	ULT-04-008-IP	Curcuruto, Salvatore	NOI-01-009	Dual, Jurg	NOI-03-011
Carter, Norman L.	NOI-05-005-IP NOI-05-006-IP	Cutanda, Vicente	NOI-04-016	Dubois, Danièle	RBA-08-002
Carvalho, António P. O.	NOI-04-018 RBA-05-003-IP	<b>D</b>		Dubus, B.	NON-01-004-IP
Cassereau, Didier	ULT-03-008-IP	D'hooge, Jan	ULT-01-006-IP ULT-01-007-IP	Ducasse, Eric	MUS-04-006 MUS-04-001-IP
Castagnede, Bernard	NON-02-008	Dadic, Martin	PHA-Gen-039	Duclos, Jean	PHA-Gen-030
Castro, Carlos	RBA-04-012	Dafonte, Pablo	MAT-01-015 MAT-01-016 MAT-01-023	Duflo, Hugues	PHA-Gen-030 PHA-Gen-038
Castro, Enrique	PHA-Gen-013 ULT-03-012	D'Alessandro, Christophe	SPE-01-003-IP	Dyakonov, Konstantin	PHA-Gen-002
Catheline, S.	NON-02-009	Dalmont, Jean-Pierre	MUS-04-006	Dyakonov, Vladimir P.	PHA-Gen-002
Caussé, René	MUS-06-003-IP MUS-06-014	Daniau, William	ULT-04-002-IP	<b>E</b>	
Cellai, Gianfranco	NOI-07-021	Daniel, Peter	PSY-02-010	Ebata, Masanao	PSY-02-009
Cepeda Riaño, J.	NOI-06-012 NOI-06-016	Daniilov, O.	MAT-01-010	Efimtsov, B.M.	ARC-Gen-003 NUM-03-008
		Daniilov, Pavel	NUM-03-010-IP	Egenter, Armin	ELE-Gen-007 RBA-05-017
		Das-Gupta, Dilip	MAT-01-024 ULT-04-005-IP	Eguiguren, José Luis	NOI-04-017
		Dassen, Ton	NOI-02-011	El Masri, Samir	NUM-04-004-IP
		Daumal i Domènech, Francesc	ARC-Gen-005 EDU-01-006	Elejabarrieta, M <sup>a</sup> Jesús	MUS-06-015
		Davey, M. R.	PHA-01-010-IP	Elejalde-García, M.J.	EDU-01-007 MUS-04-009
				Elko, Gary	NUM-02-004-IP

Elvira, Luis	ULT-01-003-IP ULT-05-006-IP	Fokina, Margarita	UNW-01-003 UNW-01-012	Gennady, Maksimochkin	PHA-Gen-020
Elwenspoek, M.C.	PHA-Gen-001	Folégot, Thomas	UNW-01-017	Gennisson, J. L.	NON-02-009
Embrechts, Jean-Jacques	RBA-06-001-IP	Fontaine, Jean-Marc	MUS-02-005	Genuit, Klaus	NOI-07-004-IP NOI-07-005-IP PSY-04-001-IP
Endoh, Nobuyuki	PHA-Gen-040 UNW-01-002 UNW-01-004-IP UNW-01-005-IP	Fontaine, Mathieu	MUS-06-006-IP	Gérard, Claire	SPE-01-007
Erdogan, Sevda	RBA-05-006-IP	Fook Fah, Yap	STA-01-001-IP	Gerges, Samir N. Y.	RBA-06-002-IP MAT-01-021
Eriksen, Anders	NOI-04-016	Foppiano, Davide	MAT-01-018 RBA-02-018	Gerretsen, Eddy	RBA-CIB-011-IP
Escolano, José	ELE-02-006 ELE-02-010	Forbes, Barbara	MUS-Gen-005	Gherardini, Lisa	PHA-01-012-IP
Escuder, E.	ELE-Gen-003	Forssén, Jens	NUM-06-006-IP	Gibbs, Barry M.	MAT-01-021 RBA-07-002-IP
Escudero, S.	RBA-04-013	Fothergill, Les	RBA-04-004-IP	Gibiat, M. Vincent	MAT-01-011 MUS-06-005-IP MUS-Gen-002 PHA-Gen-022 PHA-Gen-063 ULT-Gen-004
Esipov, Igor	PHA-Gen-049 UNW-01-011	Franck, Andreas	NUM-07-004-IP NUM-02-001-IP	Gil, David	NUM-08-001-IP
Espada, Luis	NOI-06-002	Franck, Felix	PHA-Gen-003	Gilbert, G.	SPA-Gen-012
Espinel Valdivieso, Ana E.	ARC-Gen-017	Franco, Graciela	PSY-04-004-IP	Gilbert, Joël	MUS-04-005 MUS-04-004-IP
Esteban, Alberto	RBA-04-013 RBA-CIB-010-IP	Frantisek, Kadlec	PPA-Gen-002	Giménez Pérez, Alicia	PPA-Gen-003
Every, A.G.	PHA-Gen-043	Franzoni, Linda	NUM-02-006-IP	Ginn, Bernard	NOI-04-016
Ezcurra, Amaya	MUS-06-015	Friend, James R.	ULT-02-018	Giordano, Francesco	UNW-01-021
<b>F</b>		Froelich, Benoit	ULT-03-004-IP	Giordano, Raffaele	UNW-01-021
Fabozzi, Concetta	NOI-01-009	Fuenmayor, F. J.	ENV-Gen-004	Girón, Sara	RBA-05-007-IP RBA-05-008-IP
Fabre, Benoit	MUS-06-014	Fuente, J. V.	ULT-03-007-IP	Gjestland, Truls	NOI-02-005
Fajt, Sinisa	PHA-Gen-039	Fuentes Robles, Marcos	NOI-06-016 NOI-06-012	Gloza, Ignacy	UNW-01-015
Fanjul, Raquel	NUM-05-012	Fujimoto, Kazutoshi	NOI-04-008-IP NOI-06-011 RBA-02-002-IP RBA-02-014	Godoy, Gregorio	ULT-01-005-IP
Fastl, Hugo	NOI-04-002-IP NOI-04-003-IP NOI-07-018 PSY-05-002-IP	Fujisaki, Waka	HEA-02-010	Golás, Y.	ULT-05-002-IP
Faunce, Gavin	NOI-05-005-IP NOI-05-006-IP	Fujita, Hajime	ELE-05-001	Goltsev, Alexander	PHA-Gen-002
Faure, Julien	NOI-07-023	Fuks, Iosif	UNW-01-011	Golubev, A.Yu.	ARC-Gen-003
Fausti, Patricio	RBA-04-010	Fukushima, Tetsuhito	MUS-01-001-IP	Gomes, Márcio H. A.	RBA-06-002-IP
Feijóo, Sergio	SPA-Gen-013 SPA-Gen-014	Füllgrabe, Christian	HEA-02-002-IP	Gómez Álvarez-Arenas, T.	PHA-01-002-IP MAT-01-009-IP ULT-04-004-IP
Fellah, Mohamed	MAT-01-008-IP	Fuma, Hidenori	ELE-05-001	Gómez Escobar, V.	NOI-06-003 NOI-07-020 NOI-07-019 OSP-01-011
Fellah, Zine El Abidine	MAT-01-008-IP	Fumiaki, Satoh	NUM-Gen-004 PHA-Gen-025	Gómez-Ullate, Luis	ULT-03-003-IP ULT-01-005-IP ULT-03-009-IP
Femenia, A.	ULT-05-009-IP	Funkhouser, Thomas	NUM-02-004-IP	Gonneau, E.	PHA-Gen-014
Feng, Gao	STA-01-001-IP	Furmann, Anna	PSY-04-002-IP	González Gutiérrez, Victoria E.	ARC-Gen-013
Feng, Leping	NUM-03-007	Furukawa, Masakazu	SPA-Gen-002	González Pérez, José	ENV-Gen-011
Fernández del Río, D.	NOI-06-016	Furukawa, Shigeto	HEA-03-003-IP	González Suárez, Julio	MAT-01-001-IP MAT-01-016
Fernández Fernández, Alejandro	ELE-01-010 UNW-01-018	Furusawa, Masahiko	UNW-01-020-IP	Gonzalez, Alberto	ELE-01-006-IP PHA-Gen-018 PSY-01-012
Fernández Francos, Joaquín	ENV-Gen-011 ENV-Gen-020	Furuya, Hiroshi	RBA-02-002-IP RBA-02-014	Gonzalez, Diego	MUS-02-003-IP
Fernández, Francisco	ULT-01-013	<b>G</b>		González, G.	ULT-04-012-IP
Fernández, Joaquin	NUM-05-012	Gade, Anders Christian	RBA-05-010-IP	González, Icíar	PHA-01-001-IP
Fernández, M.	ULT-03-014	Gaëtan, Gilbert	SPA-Gen-011	González, J.	OSP-01-004-IP OSP-01-006-IP
Fernández, Marcos	RBA-05-015	Gaete Garretón, Luis	ULT-02-001-IP	Goran, Pavic	MUS-Gen-006
Fernández, Santiago	SPA-Gen-013 SPA-Gen-014	Galindo, Miguel	RBA-05-007-IP RBA-05-008-IP	Gorchakov, V.N.	ULT-01-010-IP
Ferre, Michel	MUS-06-006-IP	Galland, Marie-Annick	ELE-01-003-IP	Gosálbez, J.	ULT-03-007-IP
Ferreira, A R	ULT-04-011-IP	Gallego, Antolino	PHA-Gen-013 ULT-03-012	Goto, Takahito	SPA-Gen-006
Ferreira, José A. C.	NOI-07-010	Gallego-Juárez, Juan Antonio	PHA-01-001-IP NON-02-002-IP ULT-02-005-IP ULT-05-004-IP KL-05	Gottfried K. Behler	RBA-02-008-IP
Ferreiro García, J.	NOI-06-016 NOI-06-012	Gamallo Pinel, José Angel	MAT-01-007-IP	Gramtorp, Johan	NOI-04-016
Ferrer, Miguel	ELE-01-006-IP	Gamallo, Pablo	NUM-07-003-IP	Greated, C.A.	PHA-Gen-056 MUS-04-007
Ferri, Marcelino	ENV-Gen-008 MAT-01-019 NOI-07-007	Gander, Martin J.	NUM-07-008-IP	Grelowska, Grazyna	ELE-02-003 UNW-01-007
Ferrín, J.L.	PHA-Gen-042	Garai, Massimo	RBA-03-004-IP RBA-03-003-IP	Grevillot, M.	ULT-04-018
Feuereisen, B.	ELE-02-001	García Nocetti, Fabián	ULT-Gen-008	Grimm, Giso	PSY-02-006-IP
Filippou, Thomas G.	PSY-05-002-IP	García Ortiz, E.	NOI-06-012 NOI-06-016	Grimwood, Colin	RBA-04-004-IP
Fink, Mathias	NON-02-009 ULT-03-008-IP UNW-01-017	García, Igone	NOI-02-012 NOI-02-013	Groll-Knapp, Elisabeth	NOI-05-001-IP NOI-05-007-IP
Finnveden, Svant	NUM-05-011	García, José M <sup>a</sup>	NOI-07-007	Gröschl, Martin	PHA-01-007-IP PHA-01-011-IP
Fischer, Gerhard	PHA-Gen-003	García-Hernández, Maria Teresa	PHA-Gen-013 ULT-03-012	Grothe, Benediky	PSY-01-003-IP
Fischer, Heinz-Martin	RBA-CIB-007-IP	García-Pascual, Pablo	ULT-05-009-IP ULT-05-001-IP	Grundke, Dirk	NOI-06-001
Fitch, Tecumseh	NUM-04-003-IP	Gärtner, Claus	NOI-07-015-IP	Gudra, Tadeusz	ULT-04-021
Flindell, Ian H.	ENV-Gen-014	Gascón, F.	NUM-Gen-005		
Florens, Jean-Loup	MUS-06-001-IP	Gavioso, Roberto Maria	PHA-Gen-024		
Fodiman, Pascal	NOI-03-006-IP	Gaviot, Etienne	PHA-Gen-011		
Foken, Wolfgang	NOI-06-001	Gaydecki, Patrick	MUS-02-002-IP		
Fokin, Vladimir	UNW-01-003 UNW-01-012	Gazengel, Bruno	PHA-Gen-010		
		Geisler, R.	ULT-02-004-IP		

Gueiros Teixeira, Suzana	NOI-02-009 NOI-07-022	Hirate, Kotaroh	NUM-Gen-006	Jean, Philippe	NUM-01-001-IP RBA-04-008 RBA-CIB-003-IP
Guermond, J.L.	MAT-01-002-IP	Hirose, Masaaki	NOI-03-003-IP	Jekosch, Ute	KL-03
Guigou-Carter, C.	RBA-CIB-004-IP	Hirose, Hajime	MUS-03-003-IP	Jenson, Frédéric	ULT-01-008-IP
Guihot, J.P.	PHA-Gen-014	Hirschberg, A.	SPE-01-004-IP	Jesus, S.M.	UNW-01-025
Guillamón, A.	SPA-Gen-007	Hirse Korn, Sigrun	NON-02-004-IP	Jiménez Diaz, S.	STD-Gen-002
Guimarães, João Enrique	STA-01-005	Hishitani, Masato	SPA-Gen-005	Jiménez, Alicia	PHA-Gen-017
Gunel, Banu	NUM-02-008	Hodder, Kathryn	PSY-02-004-IP	Jiménez, S.	ENV-Gen-010
Gusev, Vitali E.	NON-02-008 PHA-Gen-011 ULT-03-016	Hodgson, Murray	ARC-Gen-007 RBA-08-001	Jiménez, Yolanda	ULT-04-015
Guyader Jean-Louis	PHA-Gen-037 STA-01-002-IP STA-01-003-IP	Hodoshima, Nao	SPA-Gen-003	Jinya, Munehiro	RBA-02-001-IP
<b>H</b>		Hofbauer, Markus	PSY-05-003-IP	Joao, Maria	ENV-Gen-019
Habault, Dominique	ENV-Gen-006	Hofer, Sonia	PSY-01-006-IP	Job, R.F. Soames	NOI-05-006-IP NOI-05-005-IP
Hachiya, Hiroyuki	ULT-01-011 UNW-01-006	Hofmann, Gert	PPA-Gen-006	Joekes, Silvia	PSY-04-004-IP
Hacihabiboglu, Huseyin	MUS-01-007 PHA-Gen-021	Hohmann, Volker	PSY-02-006-IP	Joly, Patrick	MUS-06-012
Hagberg, Klas	RBA-07-003-IP	Hojan, Edward	PSY-04-002-IP	Jonasson, Hans G.	RBA-CIB-013-IP NOI-06-008
Hagen, Mechthild	RBA-08-007	Holstein, Peter	PHA-Gen-003	Jorge Banacloy, M <sup>a</sup> Dolores	PPA-Gen-003
Haider, L.	ULT-01-004-IP	Holsteins, Frank	ULT-02-014	Joris, Philip X.	PSY-01-004-IP PSY-02-002-IP
Hak, C.C.J.M	RBA-02-012-IP RBA-04-015	Homm, Anton	NUM-03-003-IP	Joseph, Martin	ENV-Gen-018
Halary, Jean-Louis	MUS-Gen-002	Hooley, Antony	MAT-01-011	Juola, James F.	PSY-05-001-IP
Halliwell, R.E.	RBA-CIB-009-IP	Hopkins, Carl	RBA-04-004-IP RBA-CIB-008-IP	Jurado Navas, Antonio	MUS-01-005
Hamann, Ingo	PSY-01-006-IP	Horáček, Jaromír	SPE-01-006 SPE-01-005	Juve, Daniel	OSP-01-003-IP
Hammer, Per	RBA-07-001-IP	Horlville, C.	RBA-CIB-004-IP	<b>K</b>	
Hamzaoui, N.	PSY-02-011	Hübelt, Jörn	PHA-Gen-003 RBA-03-005-IP	Kagoshima, Koji	ELE-01-001-IP
Hanyu, Toshiki	RBA-02-003-IP	Huber, Ludowika	RBA-08-007	Kahlert, Joachim	RBA-08-007
Harba, Naser	NON-01-003-IP	Hübner, Gerhard	NUM-03-001-IP	Kakurai, Shin'ichi	MUS-03-003-IP
Hardtke, H.J.	NUM-05-004-IP NUM-07-006-IP	Humbert, Eric	MUS-06-003-IP	Kamiakito, Noboru	ENV-Gen-016
Hardtke, Hans-Jürgen	NUM-03-004-IP	Hume, Ken	NOI-01-005-IP NOI-01-008	Kampanis, N. A.	UNW-01-001-IP
Harris, Nicholas R.	PHA-01-003-IP	Hutchins, D.A.	ULT-04-001-IP	Kanako, Ueno	NOI-05-013 RBA-02-004-IP
Hartung, Klaus	PSY-02-007-IP	Hüttenbrink, Karl-Bernd	PPA-Gen-006	Kanemoto, Shigeru	ULT-03-006-IP
Hashimoto, Takeo	NOI-04-013-IP	Hygge, Staffan	NOI-05-003-IP	Karabiber, Zerhan	RBA-05-006-IP RBA-05-009-IP
Hatanaka, Shin-ichi	ULT-02-016	<b>I</b>		Kari, Saarinén	NUM-Gen-001
Hatfield, Julie	NOI-05-005-IP NOI-05-006-IP	Ianculescu, Cristian	NUM-07-007-IP	Karjalainen, Matti	ELE-02-004
Haugg, Eliana	NOI-01-007-IP	Iannace, Gino	RBA-01-003-IP RBA-01-006-IP	Kärkkäinen, Asta	ELE-02-002
Hausotte, Thomas	NOI-06-001	Ianniello, Carmine	RBA-01-003-IP RBA-01-006-IP	Kärkkäinen, Leo	ELE-02-002
Hawkes, Jeremy J.	PHA-01-003-IP PHA-01-007-IP	Iglseider, Heinrich	ELE-01-009	Kärkkäinen, Timo	NUM-Gen-001
Hayashi, Shigeo	NON-01-003-IP ULT-02-016	Ignazi, Gérard	RBA-08-002	Kartous, M. S.	RBA-04-009
Hayek, Sabih I.	PHA-Gen-033	Ih, Jeong-Guon	ENV-Gen-012	Kashino, Makio	HEA-02-006-IP HEA-02-010 HEA-03-003-IP
He, Dantong	NUM-05-005-IP	Ikebuchi, Maki	HEA-01-005-IP	Katoh, Yuhichi	ELE-05-001
Heckl, Maria	NOI-03-009	Ikeda, Masahiro	RBA-02-005-IP	Kausel, Wilfried	MUS-06-013
Hedberg, Claes	NON-02-005-IP	Ikeda, Mitsuru	NOI-03-001-IP	Kawabata, Ken-ichi	ULT-02-007-IP
Heikkola, Erkki	NUM-07-002-IP	Ilisavskii, Yourii	PHA-Gen-002	Kawahara, Hideki	HEA-02-005-IP
Heil, Peter	PSY-01-001-IP	Imagawa, Hiroshi	MUS-03-003-IP	Kawahara, Kazuhiko	EDU-01-002-IP
Heimdal, Andreas	ULT-01-006-IP	Imatomi, Setsuko	SPE-01-008	Kawakami, Fukushi	RBA-02-005-IP
Heinrichs, Ralf	ELE-Gen-009	Inoue, Katsuo	RBA-04-001-IP	Kayýlý, Mutbul	RBA-05-011-IP
Heinz, V.	ULT-05-007-IP	Irino, Toshio	HEA-02-005	Kazama, Michiko	SPA-Gen-016
Hellbrück, Jürgen	NOI-04-002-IP	Irmer, Volker	NOI-02-001-IP	Kazmierczak, Jan	ENV-Gen-017
Hellbrueck, Juergen	NOI-04-001-IP	Irudayara, J.	ULT-05-003-IP	Kazys, R.	ULT-Gen-009
Henrich, Nathalie	SPE-01-003-IP	Ise, Shiro	ELE-01-001-IP	Kebler, Jochen	PPA-Gen-007 PSY-01-009
Henriza	RBA-05-005-IP	Ishida, Taeko	SPA-Gen-006	Keil, Thomas	NOI-05-002-IP
Hercel, Hans Peter	NUM-04-003-IP	Ishikawa, Tomoharu	MUS-05-001-IP	Keller, Barbara	NOI-04-002-IP
Hernandez, J.	PHA-Gen-014	Ishiodori, Tomohiro	PSY-02-009	Kerbrat, Estelle	ULT-03-008-IP
Hernández, Ricardo	ENV-Gen-009	Iula, Antonio	ULT-04-008-IP ULT-04-003-IP	Kergomard, Jean	MUS-04-008
Herrera, Claudia	ULT-01-012	Ivancevic, Bojan	PSY-02-008 RBA-02-017	Kikuchi, Toshiaki	UNW-01-008 UNW-01-009
Hervella-Nieto, Luis	NUM-07-003-IP	Iwamiya, Shin-ichiro	EDU-01-002-IP	Kim, Lae-Hoon	PHA-Gen-045
Hidaka, Takayuki	MAT-01-013 RBA-01-002-IP	Iwase, Teruo	NOI-01-002-IP	Kim, Mi-Jung	PHA-Gen-045
Hideki, Tachibana	EDU-01-003-IP NOI-02-003-IP NOI-05-013 NUM-Gen-004 PHA-Gen-025 PHA-Gen-026 RBA-02-004-IP	Iwata, Kiyoshi	ULT-03-006-IP	Kim, Se Woong	MUS-01-009
Hilbrunner, Olivier	ELE-01-003-IP	Izbicki, Jean Louis	PHA-Gen-038 PHA-Gen-031 PHA-Gen-032 ULT-03-013	Kim, Yoon Chung	PHA-Gen-028
Hilge, C.	NOI-04-006-IP	Izewska, Anna	RBA-04-006-IP	Kinkel, Martin	PSY-04-003-IP
Hill, Martyn	PHA-01-003-IP	<b>J</b>		Kishinaga, Shinji	RBA-02-005-IP
Hynnä, Pertti	NUM-Gen-001	Jacquey, S.	ULT-04-018	Kistler, Doris	PSY-03-006-IP
		Jakacki, Jaromir	UNW-01-013	Kiyoshi, Nagakura	NOI-02-004-IP
		Jakob, André	ELE-01-007	Klatte, M.	NOI-04-006-IP
		Jambrošić, Kristian	PSY-02-008 RBA-02-017	Klein, Philippe	NUM-01-004-IP
		Janott, C.	NOI-04-006-IP	Kleiner, Mendel	PSY-05-004-IP
				Kleinschmidt, Michael	HEA-03-009-IP



Klimov, Andrey	PHA-Gen-002	Lauriks, Walter	MAT-01-008-IP	Maestre, Juan Ramón	ULT-01-003-IP
Klug, Helmut	ENV-Gen-013	Lauterborn, Werner	ULT-02-004-IP NON-01-001-IP	Maffei, Luigi	RBA-01-003-IP RBA-01-006-IP
Klump, Georg	PSY-01-006-IP	Lavandier, Catherine	NOI-07-017 RBA-08-002	Magrini, A.	RBA-05-018
Klusek, Zygmunt	UNW-01-013	Lazarev, L.A.	NUM-03-008	Makarski, Michael	STA-01-005
Knorr, D.	ULT-05-007-IP	Le Guillou-Buffello, D.	ULT-01-004-IP	Maki, Katuhiro	HEA-03-003-IP
Knutsson, Helena	RBA-07-005-IP	Leclaire, Philippe	MAT-01-006	Makino, Koichi	NOI-01-001-IP NOI-02-002-IP
Kob, Malte	SPE-01-002-IP	Leclere, Audrey	NOI-03-007-IP	Maletic, Mladen	ELE-02-008 ULT-03-017 ULT-03-018
Kobayashi, Kei	SPA-Gen-005	Leija, L.	ULT-02-005-IP ULT-04-012-IP	Maluski, S.	RBA-07-002-IP
Kobayashi, Masahito	ENV-Gen-016	Leitmann, Thilo	NOI-05-009-IP	Marburg, Steffen	NUM-02-003-IP NUM-03-004-IP NUM-05-004-IP NUM-07-006-IP
Kobayashi, Noriko	MUS-03-003-IP	Lemaitre, Guillaume	PSY-02-012	Marchioni, Alain	NOI-04-005-IP
Kobayashi, Yukio	MUS-05-001-IP	Leman, M.	MUS-01-002-IP	Marín Sanchis, Albert	PHA-Gen-017 PPA-Gen-003
Koch, P.	ULT-02-004-IP	Lenoir, Olivier	PHA-Gen-031 PHA-Gen-032	Marquis-Favre, Catherine	NOI-07-023
Koga, Takashi	RBA-04-002-IP	León Rodríguez, A.L.	RBA-02-015	Martellotta, Francesco	ARC-Gen-004 RBA-05-016
Koga, Teppei	MUS-05-001-IP	Leroy, Oswald	PHA-Gen-006 ULT-Gen-002	Martens, Alexander	NOI-03-007-IP
Kohlrausch, Armin	MUS-05-003 PSY-02-003-IP PSY-05-001-IP	Lesaffre, M.	MUS-01-002-IP	Martens, G.	MUS-01-002-IP
Kohrs, Torsten	ENV-Gen-003	Leschka, S.	ELE-05-003	Martens, J.P.	MUS-01-002-IP
Koizumi, Yuki	RBA-02-003-IP	Lesonen, Dmitry N.	NUM-08-002-IP	Martín Bravo, M <sup>a</sup> A.	OSP-01-006-IP
Kok, B.H.M	RBA-02-012-IP	Lethiecq, Marc	ULT-04-010-IP ULT-04-019	Martín Cruzado, Carlos G.	PPA-Gen-007 PSY-01-009
Kollmeier, Birger	HEA-03-004-IP	Letourneaux, Fabien	NOI-03-004-IP NOI-03-005-IP NOI-03-006-IP	Martin, H.J.	RBA-02-012-IP
Kolosova, N.G.	ULT-01-010-IP	Leung, N.M.	ELE-Gen-006	Martinez Rodriguez, D.	NUM-Gen-011 MAT-01-017 NOI-06-009 OSP-01-009
Komatsu, Masahiko	SPA-Gen-004	Levassort, Franck	ULT-04-019 ULT-04-010-IP	Martínez, F.	SPA-Gen-007
Komoda, Osamu	PSY-02-009	Lewandowski, Stanislav J.	PHA-Gen-002	Martínez, Juan A.	ENV-Gen-008 NOI-07-007
Komoniewski, Marek	ENV-Gen-017	Lezhnev, N.B.	PHA-Gen-036	Martínez, Luis	PSY-01-013
Koopman, Arnold	RBA-04-014 RBA-04-015	Li, Aijun	MUS-Gen-005	Martínez, Oscar	ULT-03-003-IP ULT-03-009-IP ULT-01-005-IP
Kordik, Alexander	PSY-03-002-IP	Lim, Fannon C. N.	ULT-02-003-IP	Martínez-Oña, Rafael	ULT-03-005-IP
Kosuke, Kato	MUS-06-007	Lim, Jun-Seok	PHA-Gen-028	Martins, C. R.	NUM-Gen-014
Kotarbinska, Ewa	PPA-Gen-001	Limani, Myzafere	PHA-Gen-016	Maryanov, Alexander	PHA-Gen-050
Koyama, Daisuke	ULT-Gen-010	Lin, Liang-Kong	HEA-01-002-IP	Masaeda, T.	NUM-06-007
Kozaczka, Eugeniusz	ELE-02-003 UNW-01-007 UNW-01-015	Linares, José Ignacio	NUM-08-001-IP NUM-08-003-IP	Masato, Akagi	HEA-02-003-IP SPA-Gen-002
Kozuka, Teruyuki	ULT-02-016	Linde, J.	PHA-Gen-036	Masayuki, Morimoto	NOI-07-014 RBA-02-001-IP
Krampera, Pavel	SPE-01-006	Ling, Matthew	RBA-04-004-IP	Maschke, Christian	NOI-05-010-IP
Kravchenko, S.V.	ARC-Gen-003	Lipowczan, Adam	ENV-Gen-017	Mastikhin, Y.V.	ULT-01-010-IP
Krebber, Winfried	NOI-07-004-IP	Ljunggren, Fredrik	RBA-07-005-IP	Matamala, Pedro	PSY-01-013
Krefting, D.	ULT-02-004-IP	Llanos-Vázquez, R.	EDU-01-007 MUS-04-009	Mateos, Rubén	NOI-02-013
Krijnen, G.J.M.	PHA-Gen-001	Llata, J.R.	ULT-03-014	Matsuda, Osamu	ULT-03-016
Kropp, Wolfgang	NUM-01-008 NUM-06-004-IP	Lobastov, Sergey	ELE-Gen-008	Matsukawa, Mami	ULT-Gen-007
Kubu, Silvie	NOI-05-001-IP	Loizeau, T.	NOI-03-005-IP	Matsumoto, Mitsuo	ELE-03-002-IP
Kudo, Motoi	HEA-03-001-IP	López, José J.	PHA-Gen-018 PHA-Gen-019	Mattei, Pierre-Olivier	ENV-Gen-006
Kumada, Chieko	MUS-03-003-IP	Lopez-Poveda, Enrique A.	HEA-02-001-IP	Matthew, P.	ULT-02-003-IP
Kumada, Masanobu	MUS-03-003-IP	Lorenzana Lorenzana, M.T.	MAT-01-001-IP MAT-01-015 MAT-01-016	Maurel, Agnes	PHA-Gen-046
Kunent, Michael	NOI-05-001-IP	Lorenzi, Christian	HEA-02-002-IP	Maximov, German A.	ULT-02-015 NUM-08-002-IP
Kurakata, Kenji	STD-Gen-001	Loske, Achim M.	ULT-01-013 ULT-01-012	Maysenhölder, Waldemar	RBA-04-011
Kurin, Vasilij	UNW-01-003-IP	Lotton, Pierrick	PHA-Gen-011	Mazeika, L.	ULT-Gen-009
Kurosawa, Minoru	ULT-02-002-IP	Louwerse, Christophe	NOI-04-015 RBA-08-003	Maziul, Maren	NOI-01-006-IP
Kuribayashi		Lowe, KC;	PHA-01-010-IP	McAdams, Stephen	PSY-02-012-IP PSY-02-014-IP
Kurz, Thomas	NON-01-001-IP	Loyau, Thierry	PHA-Gen-004	McAlpine, David	HEA-02-007-IP
Kustov, Leonid M.	PHA-Gen-050 UNW-01-003-IP	Lubman, David	RBA-05-014-IP	McLoughlin, Aiden J.	PHA-01-011-IP
Kusumoto, Akiko	SPA-Gen-003	Lucas, Margaret Cartmell	ULT-02-003-IP	Meddis, Ray	HEA-02-001-IP
Kuwano, Sonoko	NOI-04-001-IP	Lucas, Margaret Cartmell	ULT-02-003-IP	Meerbengen, Karl	NUM-05-008-IP
Kvist, Preben	SPA-Gen-001	Luna Ramírez, Salvador	PPA-Gen-007	Meis, M.	NOI-04-006-IP
<b>L</b>		Lund, Fernando	PHA-Gen-046	Melcón Otero, B.	NOI-06-012 NOI-06-016
Laback, B.	PPA-Gen-004	Lyakso, Elena E.	SPA-Gen-009	Mellert, Volker	RBA-03-001-IP
Labat, Valérie	ULT-01-015	<b>M</b>		Mellet, Cyril	NOI-03-006-IP
Lafarge, D.	MAT-01-002-IP	MacGillivray, T.	PHA-Gen-056	Méndez Sierra, J.A.	NOI-06-003 NOI-07-020 OSP-01-011 NOI-07-019
Lajudie, Olivier de	MUS-06-003-IP	Machimbarrena, M.	MAT-01-001-IP OSP-01-004-IP OSP-01-006-IP	Mendoza López, Jorge	ENV-Gen-014
Lajudie, Olivier de	MUS-06-003-IP	Machón, D.	ELE-02-001		
Lam, Y. W.	NUM-06-001-IP OSP-01-012	Macho-Stadler, E.	EDU-01-007 MUS-04-009		
Lamberti, Nicola	ULT-04-003-IP ULT-04-008-IP	Mackensen, Silvyva V.	NOI-05-011-IP		
Lancée, Charles T.	ULT-01-001-IP	Mackensen, Sylvia V.	NOI-05-011-IP		
Lanceleur, Patrick	PHA-Gen-029	Maeda, Eri	EDU-01-005		
Langemann, Ulrike	HEA-01-004-IP PSY-01-006-IP				
Langendijk, E.H.A.	PSY-03-005-IP				
Lardat, Raphaël	ULT-04-002-IP				
Larsson, Krister	NUM-01-002-IP				
Larsson, Pontus	PSY-05-004-IP				
Laude, Vincent	ULT-04-002-IP				
Laugier, Pascal	ULT-01-008-IP				

Mercier, Jean-François	PHA-Gen-046	Müller, Roland	PHA-Gen-003	Ollivier, Sébastien	MUS-04-006
Mercier-Finidori, Michaël	ULT-Gen-003	Mundt, Harald	PSY-02-010		MUS-04-008
Mertens, Paul W.	ULT-02-014	Munteanu, Liguia	NUM-Gen-016	Olny, X.	MAT-01-010 NUM-Gen-003 MAT-01-004-IP
Metten, Burkhard	NON-01-001-IP	Murahara, Yuji	EDU-01-005 SPA-Gen-004 SPA-Gen-005 SPA-Gen-006	Olsen, Erling	NOI-04-016
Mettin, R.	ULT-02-004-IP			Opieliński, Krzysztof J.	ULT-04-021
Metzen, H.A.	RBA-04-021	Muraoka, Teruo	MUS-03-001-IP	Orellana, José María	PHA-Gen-023
Meunier, Nicolas	NOI-03-007-IP	Mutsumi, Ishibashi	NUM-Gen-004	Oria, J.P.	ULT-03-014
Meunier, Sabine	ENV-Gen-006 NOI-04-005-IP NOI-04-014	<b>N</b>		Orlowski, Rafal	RBA-02-010-IP
Meyer, Jürgen	RBA-05-002-IP	Nabuco, Marco	NOI-07-022	Osetrov, Alexander	NUM-03-002-IP
Meyer, J.J.	ULT-04-018	Nagahata, Koji	MUS-01-001-IP	Oshima, Takuya	NUM-Gen-006
Micallef, Paul	RBA-05-004-IP	Nagamatsu, Hideo	ELE-01-004-IP	Otani, Takahiko	ULT-01-016 ULT-Gen-007
Michalczyk, Jerzy	STA-01-004	Nagayama, Mitsuru	PHA-Gen-025	Otero, Marcelo	ULT-04-015
Michéyl, Christophe	SPA-Gen-011 SPA-Gen-012	Nagy, Attila Balazs	ARC-Gen-012 MAT-01-024	<b>P</b>	
Micozzi, Franco	NOI-01-009	Nakagawa, Koichi	RBA-02-001-IP	Paatero, Tuomas	ELE-02-004
Miguel, A. Sérgio	NOI-02-006 NOI-02-015	Nakajima, Yoshitaka	EDU-01-002-IP HEA-03-005-IP	Padilla, Frédéric	ULT-01-008-IP
Mihalcea, Aurelia	PHA-Gen-007 PHA-Gen-008	Nakamura, Kentaro	ULT-02-018	Pagán, R.	ULT-05-005-IP
Miida, Yoshiro	EDU-01-001-IP	Nakamura, Koji	HEA-03-010-IP	Pagneux, Vincent	PHA-Gen-009
Mijic, M.	RBA-05-001-IP	Nakamura, Toshiaki	UNW-01-006	Palma, M.	ULT-05-010-IP
Mikeli, A.	PHA-Gen-042	Nakanishi, T.	NUM-06-007	Palmioli Creus, Jordi	NOI-03-010
Minnaar, Pauli	PSY-03-001-IP	Nakano, Iwao	UNW-01-006	Pàmies, T.	ENV-Gen-010
Minoldo, Gloria	PSY-04-004-IP	Nakashima, Takahiro	ELE-01-001-IP	Panneton, R.	MAT-01-004-IP
Mira Llosá, María Teresa	PPA-Gen-009	Nakayama, Ichiro	MUS-03-002-IP	Pappalardo, Massimo	ULT-04-003-IP ULT-04-008-IP
Miralles, R. I.	ULT-03-007-IP	Nakayama, Yoshio	ENV-Gen-012	Paquier, M.	SPA-Gen-012
Mispreuve, Henri	RBA-04-012	Naoi, Jun	UNW-01-008	Parati, Linda	RBA-01-010-IP
Mitome, Hideto	ULT-02-016	Naugolnykh, Konstantin	UNW-01-011	Parizet, Etienne	NOI-07-006-IP PSY-02-011
Mitsoudis, D. A.	UNW-01-001-IP	Navarro Casas, J.	ARC-Gen-009 RBA-02-015	Park, Chul-Min	ENV-Gen-012
Mitsui, Minoru	MUS-05-001-IP	N'Dogbia, Yombo	NOI-01-004-IP	Parrondo Gayo, Jorge	ENV-Gen-011 ENV-Gen-020
Mitsumi, Kato	MUS-01-004-IP	Neal, M. A.	MUS-04-005	Pasechnik, Sergey	PHA-01-005
Miura, Masanobu	MUS-Gen-007	Neelon, Michael	PSY-03-002-IP	Passerini, Carlotta	NOI-07-021
Miura, T.	NUM-06-007	Nekrasov, I.A.	STD-Gen-003	Pastureaud, Thomas	ULT-04-002-IP
Miyahara, Makoto	MUS-05-001-IP	Neubauer, Juergen	NUM-04-003-IP	Patat, Frédéric	ULT-01-015
Miyares, Pablo	NOI-02-012 NOI-02-013	Nieder, Andreas	PSY-01-006-IP	Patricio, Jorge	ARC-Gen-010 STA-01-006 RBA-CIB-012-IP
Miyazono, Hiromitsu	PSY-02-009	Niemas, Marek	ARC-Gen-001	Patsouras, Christine	NOI-07-018 PSY-05-002-IP
Miyoshi, Tooru	SPA-Gen-006	Nieves, F.J.	NUM-Gen-005	Patsouras, Dimitrios	NOI-07-018
Moeck, Thomas	RBA-CIB-007-IP	Nightingale, T.R.T.	RBA-CIB-009-IP	Patterson, Roy D.	HEA-02-005
Molero, Adriana C.	PHA-Gen-034	Niimi, Seiji	MUS-03-003-IP	Payan, Y.	SPE-01-004-IP
Molkenstruck, Walter	ULT-Gen-001	Nikolin, V.P.	ULT-01-010-IP	Pelorson, Xavier	NUM-04-004-IP SPE-01-004-IP
Møller, Henrik	PSY-03-001-IP	Nishida, Takashi	NOI-03-002-IP	Penelet, Guillaume	PHA-Gen-011
Möller, Sebastian	SPA-Gen-015	Nishihara, Noriko	MAT-01-013	Peña, Miguel Angel	RBA-04-016
Mönkölä, Sanna	NUM-07-002-IP	Nishimura, Akira	MUS-01-004-IP PSY-01-011	Peplow, Peter	NOI-05-005-IP NOI-05-006-IP
Montero de Espinosa, Francisco	ULT-01-003-IP ULT-03-009-IP ULT-05-006-IP ULT-03-003-IP ULT-04-004-IP	Nishimura, Tsuyoshi	NUM-Gen-007	Peplow, Andrew	NUM-05-011
Moon, Han-Gil	MUS-03-006	Nito, Takaharu	MUS-03-003-IP	Perdigão, J. M.	ULT-04-011-IP
Moraru, Luminita	ULT-02-017	Nix, Johannes	PSY-02-006-IP	Perera Melero, P.	STD-Gen-002
Moreno Arranz, Antonio	MAT-01-001-IP RBA-04-016	Nobuhiro, Nagasawa	ELE-05-001	Pérez Castillo, Javier	ENV-Gen-011
Moreno Esteve, J.C.	MAT-01-017 NOI-06-009 NUM-Gen-011 OSP-01-009	Nocke, Christian	RBA-03-001-IP	Pérez-Lacorzana, José María	ARC-Gen-013 ARC-Gen-014 RBA-02-021
Moreno, E.	ULT-04-012-IP	Noh, Jung Uk	MUS-03-006	Perrier, P.	SPE-01-004-IP
Morihara, Takashi	NOI-04-011-IP	Nordmann, Rainer	NUM-03-006-IP	Petersen, D.B.	RBA-04-021
Moriyama, Masaki	MUS-01-001-IP	Noriko, Ishibashi	MUS-01-001-IP	Petersson, Björn A.T.	ENV-Gen-003 NUM-03-009 NUM-Gen-002
Morley, Helen	NOI-01-005-IP NOI-01-008	Noriko, Kobayasi	MUS-03-003-IP	Pettersson, Henrik	ENV-Gen-002
Morrell, Stephen	NOI-05-005-IP NOI-05-006-IP	Nosal, Eva-Marie	ARC-Gen-007	Petzold, Evi	RBA-CIB-007-IP
Morvan, Bruno	ULT-03-013	Noson, Dennis	MUS-06-007	Pfaffelhuber, Klaus	NOI-07-018
Mosbah, P.	NON-01-004-IP	Notbohm, Gert	NOI-07-015-IP	Pfeifer, G.	ELE-05-003
Möser, Michael	ELE-01-007	Nousiainen, Esa	ENV-Gen-005	Pfretzschner, Jaime	ELE-02-005 MAT-01-005-IP NOI-03-012
Moszynski, Marek	UNW-01-022 UNW-01-023	Novo, Pedro	PSY-03-004-IP	Picard López M.A.	NOI-06-009 MAT-01-017 NUM-Gen-011 OSP-01-009
Motooka, Seiichi	PHA-Gen-012	Nowotny, Helmut	PHA-01-007-IP	Pichat, C.	SPE-01-004-IP
Mouret, Marion	NOI-07-006-IP	Nurzynski, Jacek	RBA-CIB-002-IP	Pico, Rubén	PPA-Gen-005
Moussatov, A.	NON-01-004-IP	<b>O</b>		Pinero, Gema	ELE-01-006-IP
Muellner, Herbert	RBA-04-018	Obana, Mitsuru	MUS-Gen-007	Pinguelli Rosa, Luiz	NOI-07-022
Mulet Pons, Antonio	ULT-05-001-IP ULT-05-002-IP ULT-05-003-IP	Ochmann, Martin	NUM-03-002-IP NUM-03-005-IP		
		Ogawa, Takanobu,	NOI-03-002-IP		
		Ögren, Mikael	NUM-06-004-IP		
		Ogura, Masataka	NUM-Gen-007		
		Okada, Minae	HEA-02-006-IP		
		Okada, Tadashi,	NOI-03-003-IP		
		Okada, Yasuaki	NOI-01-002-IP		
		Okanoya, Kazuo	HEA-03-010-IP		
		Olesen, Søren Krarup	PSY-03-001-IP		

Pinnington, R.J.	NUM-01-003-IP	Recuero López, Manuel	ELE-02-001	Ruiz, M.	ELE-02-001
Pinsky, Peter M.	NUM-05-002-IP		ELE-05-002		ELE-05-002
Piñeiro, Z.	NUM-05-006-IP		NOI-07-008	Rupp, André	HEA-02-008-IP
Piñero, Gema	ULT-05-010-IP		NOI-07-009	Ruzzante, José	ULT-03-012
Piotrkowski, Rosa	PSY-01-012		NOI-07-012	Ryouchi, Nishimura	HEA-02-004-IP
Plack, Christopher J.	ULT-03-012		NOI-07-013	Ryu, M.S.	STA-01-002-IP
Plogsties, Jan	HEA-02-001-IP	Redondo, Javier	RBA-05-015	Ryu, Yunseon	PHA-Gen-035
Plotzlin, Ilja	PSY-03-001-IP		MAT-01-019	<b>S</b>	
Poelzl, Gerhard	RBA-04-018		MAT-01-020	Saguet, Pierre	NUM-04-004-IP
Poisson, Franck	NOI-03-004-IP	Rehmann, Sebastian	PPA-Gen-005	Saika, Noriko	EDU-01-005
Pok, S. M.	NOI-03-005-IP		ULT-Gen-001	Saito, Hideaki	UNW-01-009
Pollet, Amanda R.	PPA-Gen-004	Reibold, Rainer	STA-01-005	Sakae, Yokoyama	NOI-05-013
Pompoli, Francesco	PSY-04-004-IP	Reitz, Klaus	ULT-01-015	Sakagami, Kimihiro	RBA-02-001-IP
Pompoli, Roberto	RBA-03-004-IP	Remenieras, Jean-Pierre	ULT-01-015	Sakaguchi, Takefumi	ULT-Gen-005
Porró, Laura	RBA-01-010-IP	Rennert, Roland	NUM-03-004-IP	Sakai, Hiroyuki	RBA-01-007-IP
Poulsen, Torben	RBA-04-017	Rentería, L.A.	ULT-03-014	Sakakibara, Ken-Ichi	MUS-03-003-IP
Power, J. B.	RBA-04-017	Resa, Pablo	ULT-01-003-IP	Sakamoto, Shinichi	NUM-02-001-IP
Prada, Claire	SPA-Gen-001	Ribeiro, Maria Rosa Sá	ULT-05-006-IP		PHA-Gen-026
Prager, J.	PHA-01-010-IP	Ricciardi, Paola	RBA-02-013-IP	Sakuma, Tetsuya	NUM-02-001-IP
Prasher, Deepak	ULT-03-008-IP		MAT-01-011		NUM-Gen-006
Premat, Eric	UNW-01-017	Richard, Gaël	RBA-05-018	Sala, F. J.	ULT-05-005-IP
Pressnitzer, Daniel	NUM-Gen-002	Richards, O.	MUS-06-010	Sammur, Mark Anthony	RBA-05-004-IP
Preto Paulo, J. V. C.	NOI-05-004-IP	Richoux, Olivier	MUS-04-005	San Emeterio, Jose Luis	ULT-04-007-IP
Preumont, André	NUM-06-003-IP	Richter, Utz	PHA-Gen-010		ULT-04-012-IP
Prieto, Fernando E.	OSP-01-005-IP	Riera-Franco de Sarabia, E.	PSY-04-004-IP		ULT-04-013-IP
Prodi, Nicola	HEA-02-008-IP	Rilo, Esther	ULT-02-005-IP		ULT-04-014-IP
	PSY-01-005-IP		ULT-05-004-IP		ULT-04-016
Pronchatov-Rubtsov, Nikolay	NUM-Gen-014	Rindel, Jens Holger	MAT-01-015	San Martin, M.L.	ARC-Gen-002
Przemyslaw, Soszynski	ELE-01-005-IP		MAT-01-016	Sanchis Sabater, Antonio	PHA-Gen-017
Pueo, Basilio	ULT-01-012	Rio, Emmanuel	KL-04		PPA-Gen-003
	ULT-01-013		RBA-05-010-IP	Sandier, C.	PSY-02-011
	RBA-01-010	Riquimaroux, Hiroshi	ELE-02-009	Sankin, G.N	NON-01-005-IP
	NUM-02-009		HEA-01-002-IP		PHA-Gen-044
	RBA-01-007-IP		HEA-03-003-IP	Sanmartin, R.	ARC-Gen-002
Pronchatov-Rubtsov, Nikolay	PHA-Gen-050		HEA-03-008-IP	Santamaría, Carlos	MUS-06-015
Przemyslaw, Soszynski	UNW-01-019	Robbe, Mickael	NUM-05-008-IP	Santiago, J. Salvador	UNW-01-016
	ELE-02-006	Robert, Gilles	NOI-03-004-IP	Santolaria, Carlos	NUM-05-012
	ELE-02-007	Robert, Laurent	ULT-04-017	Santos, M J	ULT-04-011-IP
	ELE-02-010	Robertson, T.J.	ULT-04-001-IP	Sanz, Pedro Tomás	ULT-04-013-IP
<b>Q</b>		Rockliff, D	MUS-04-007		ULT-04-014-IP
Quirt, JD	RBA-CIB-009-IP	Rodrigues, Rui M. G. C.	NOI-04-018		ULT-04-016
<b>R</b>		Rodríguez, C.	ULT-03-014	Sas, Paul	NON-02-008
Raabe, Armin	OSP-01-008	Rodríguez, Javier	NOI-06-002	Sasaki, Kazuaki	ULT-02-007-IP
Raake, Alexander	SPA-Gen-015	Rodríguez, Miguel A.	ULT-04-009-IP	Sasaki, Kazuto	ULT-Gen-007
Raangs, R.	PHA-Gen-001		ULT-04-013-IP	Sato, Michio	ULT-03-006-IP
Raatgever, Johan	PSY-02-001-IP	Rodríguez, Rodolfo	NUM-07-003-IP	Sato, Shin-ichi	RBA-01-007-IP
Rabau, Guy	NOI-04-014	Rodríguez-Corral, G.	ULT-02-005-IP	Sato, Tetsumi	NOI-04-011-IP
Radchenko, Alexei	ULT-02-015		ULT-05-004-IP	Satonobu, Jun	ULT-02-018
Radel, Stefan	PHA-01-011-IP	Roelandt, Jos	ULT-01-001-IP	Savioja, Lauri	NUM-02-002-IP
	PHA-01-012-IP	Rogé, Bruno	PHA-Gen-029	Scamoni, Fabio	ELE-01-012
Raffellini, Giorgio	NOI-07-021	Röhrbein, Florian	PSY-05-003-IP		RBA-04-017
Raimbault, Manon	NOI-07-017	Rokhlin, Stanislav	ULT-03-015	Schanz, Daniel	NON-01-001-IP
	RBA-08-002	Romá, Miguel	ELE-02-006	Scheck, Jochen	RBA-CIB-007-IP
Rajcan, Emil	PHA-Gen-027		ELE-02-007	Schenone, Corrado	MAT-01-018
Rami, X.	ULT-04-012-IP		ELE-02-010		RBA-02-018
Ramis, Jaime	ELE-Gen-003	Romano, Rosario	RBA-01-003-IP	Schiappa de Azevedo, Fernando	RBA-CIB-012-IP
	ENV-Gen-008		RBA-01-006-IP		STA-01-006
	MAT-01-019	Romero Faus, José	PPA-Gen-003	Schick, A.	NOI-04-006-IP
	MAT-01-020		PHA-Gen-017	Schill, Kerstin	PSY-05-003-IP
	NOI-07-007	Romeu, J.	ENV-Gen-010	Schilke, T	PHA-Gen-056
	PPA-Gen-005	Rondeau, Jean-Francois	NUM-01-001-IP	Schmid, K.	PPA-Gen-004
Ramos, Antonio	ULT-04-012-IP		RBA-04-008	Schmidt, Sebastian	MUS-06-011
	ULT-04-016	Rossell, Ivana	RBA-CIB-003-IP	Schmit, H.	NON-01-004-IP
	ULT-04-007-IP		ARC-Gen-015	Schneider, Peter	NUM-05-009
	ULT-04-013-IP	Rossetti, Silvia	ARC-Gen-016	Schneider, Stefan	NUM-02-003-IP
	ULT-04-014-IP		ULT-05-009-IP		NUM-03-004-IP
Ramos, Germán	PHA-Gen-019	Rossetti, Silvia	MAT-01-012		NUM-05-004-IP
Ranz Guerra, Carlos	UNW-01-018	Rossi, Federico	NOI-06-014		NUM-07-006-IP
Rasmussen, Birgit	RBA-04-003-IP	Rossi, Tuomo	NUM-07-002-IP	Scholl, Werner	RBA-CIB-006-IP
Rasmussen, Karsten Bo	SPA-Gen-001	Rostagno, M. A.	ULT-05-010-IP	Schreiner, Christoph	HEA-03-006-IP
Raso, J.	ULT-05-005-IP	Rouquier, Philippe	PHA-Gen-010	Schulte-Fortkamp, Brigitte	NOI-07-002-IP
Ravasio, Arvi	NON-02-006-IP	Rouse, Jerry	NUM-02-006-IP	Schust, Marianne	NOI-05-002-IP
Razzazi, Farbod	SPA-Gen-010	Rousseau, Martine	NUM-05-010	Schwarz, Henrik	NOI-07-001-IP
		Roye, Werner	ULT-04-006-IP	Schwarze, Sieglinde	NOI-07-015-IP
		Rubio Acosta, Ernesto	ULT-Gen-008	Seballos, Silvia	PSY-01-013
		Ruiz, A.	ULT-04-016	Secchi, Simone	NOI-07-021
		Ruiz, Diego P.	NOI-06-010		RBA-04-010
			NOI-07-016		

Ségoufin, Claire	MUS-06-014 SPE-01-004-IP	Stark, Heide	NOI-05-002-IP	Toivanen, Jari	NUM-07-002-IP
Seiichiro, Namba	NOI-04-001-IP	Stefanelli, Rossano	NOI-03-011	Tokmakova, S. P.	PHA-Gen-062
Sekiguchi, Katsuaki	RBA-02-003-IP	Steichen, William	ULT-04-002-IP	Tomasinelli, Francesco	RBA-02-018
Sellen, Nadine	ELE-01-003-IP	Steinhuisen, Constantijn	STA-01-005	Tomczyk, Pawel	ARC-Gen-001
Seller, John	RBA-04-004-IP	Stepanek, Jan	MUS-06-008	Tomoyuki, Kurosawa	HEA-02-004-IP
Semidor, Catherine	NOI-04-015 RBA-01-008-IP RBA-08-003	Stepnowski, Andrzej	UNW-01-022 UNW-01-023	Tonddast-Navaei, Ali	PHA-Gen-041
Senboshi, Jun	ULT-03-006-IP	Stutts, Daniel S.	ULT-02-018	Torres, Rendell R.	NUM-02-005-IP
Sendra Salas, J.J.	ARC-Gen-009 RBA-02-015	Suárez Silva, Enrique	NOI-07-009 NOI-07-013	Totaro, Nicolas	PHA-Gen-037
Seriani, Géza	NUM-05-003-IP NUM-07-005-IP	Suárez, R.	ARC-Gen-009	Tournois, Guy	PHA-Gen-010
Serra, Mario R.	PSY-04-004-IP	Suda, Hiroshi	EDU-01-001-IP	Touze, Cyril	MUS-06-006-IP
Serrano, Susana	NOI-06-010 NOI-07-016	Sugawara, Yoshihiro	ULT-03-016	Townsend, Rosemary	PHA-01-003-IP
Sgard, F.	MAT-01-010 NUM-Gen-003	Sugita, Nami	ULT-02-007-IP	Toyoda, M.	RBA-06-005-IP
Shadle, Christine	SPE-01-001-IP	Sumarac-Pavlovic, Dragana	RBA-05-001-IP RBA-05-012-IP	Trahiotis, Constantine	PSY-02-007-IP
Sharp, David	MUS-Gen-005 PHA-Gen-041	Sung, Keong-Mo	MUS-01-009 MUS-03-006 PHA-Gen-028 PHA-Gen-045	Tran Van, J.	MAT-01-004-IP
Shchurov, Vladimir	ENV-Gen-001	Susini, Patrick	PSY-02-012 PSY-02-014	Tran-Huu-Hue, L. Pascal	ULT-04-010-IP ULT-04-019
Shen, Yijun	PHA-01-003-IP	Svensson, U. Peter	NUM-02-001-IP NUM-02-005-IP	Tran-Van, J.	NUM-Gen-003
Shigenori, Yokoshima	NOI-04-010-IP	Sworek, Karolina	PSY-04-002-IP	Trimmel, Michael	NOI-05-001-IP
Shimoi, Yuichi	ULT-01-016	Sztor, L.	NON-01-004-IP	Tro, Jan	MUS-01-010
Shinohara, Kohshi	SPA-Gen-005	Szymczak, Henryk	PHA-Gen-002	Tronchin, Lamberto	NUM-02-007
Shinohara, Naoaki	NOI-01-001-IP NOI-02-002-IP	<b>T</b>		Tsingos, Nicolas	NUM-02-004-IP
Shintani, Yasuo	EDU-01-001-IP	Takada, Masayuki	EDU-01-002-IP	Tsuchiya, Takenobu	PHA-Gen-040 UNW-01- UNW- 01-004-IP 002 UNW-01-005-IP
Shioda, Masazumi	ENV-Gen-016	Takahashi, D.	RBA-06-005-IP	Tsuchiya, Toshio	UNW-01-008 UNW-01-009
Sibellas, Jérôme	HEA-02-002-IP	Takahashi, Tokuro	HEA-03-008-IP	Tsuji, Kenji	ULT-03-006-IP
Siguero, Manuel	ELE-01-011	Takahashi, Yoshinori	ELE-03-002-IP	Tsujino, Jiomaru	ULT-02-006-IP
Sikora, Marjan	RBA-02-017	Takahashi, Yukio	MUS-01-001-IP	Tsukernikov, I. E.	STD-Gen-003
Silva, A.J.	UNW-01-025	Takeda, Shoichi	MUS-03-001-IP	Tsukioka, Hidebumi	NOI-01-001-IP NOI-02-002-IP
Silva, Sandra	ARC-Gen-010	Takizawa, Toshikazu	ULT-Gen-005	Tumsys, O.	ULT-Gen-009
Simal, S.	ULT-05-009-IP	Tanaka, Nobuo	ELE-01-002-IP	<b>U</b>	
Simmons, Christian	RBA-CIB-001-IP	Tanaka, Syouichi	NOI-07-014	Ueda, Kazuo	EDU-01-002-IP
Simon, Laurent	PHA-Gen-009 PHA-Gen-010	Tanaka, Yukihisa	PHA-Gen-040	Ueha, Sadayuki	KL-02 ULT-02-018
Simonin, L.	ULT-04-018	Tanikaga, Yoko	ULT-Gen-005	Ugrinovic, Kosta	UNW-01-024
Simonnet, Claire	MUS-Gen-002	Tantari, Jukka	ENV-Gen-005	Umemura, Shin-ichiro	ULT-02-007-IP
Simpson, Brian	PSY-03-002-IP	Tao, Liang	PHA-Gen-012	Umnova, Olga	MAT-01-003-IP
Sindoni, Elio	RBA-01-009-IP RBA-02-020	Tarabusi, Valerio	NUM-02-007	Unoki, Masashi	SPA-Gen-002
Sipari, Pekka	RBA-07-004-IP	Tarrero Fernández, A.I.	MAT-01-001-IP OSP-01-004-IP OSP-01-006-IP	Usagawa, Tsuyoshi	PSY-02-009
Sjödahl, Eva	RBA-07-006-IP	Tatsuda, Kenji	NOI-01-002-IP	Usuki, Nobuyuki	EDU-01-005
Skarsoulis, Emmanuel K.	UNW-01-010-IP	Tayama, Niro	MUS-03-003-IP	<b>V</b>	
Skulina, D. J.	MUS-04-007	Taylor, Richard	NOI-05-005-IP NOI-05-006-IP	Valentini, Fabricio	ELE-01-012
Sliteris, R.	ULT-Gen-009	Tegowski, Jaroslaw	UNW-01-013 UNW-01-014	Valentino, G. A.	ULT-02-005-IP
Sliwinski, Antoni	ULT-Gen-006	Ten Wolde, Tjeert	KL-01	Välimäki, Vesa	NUM-02-002-IP
Smeulders, D.M.J.	MAT-01-002-IP	Tenenbaum, R. A.	NUM-Gen-009	Vallet, M.	RBA-05-009-IP
So, R.H.Y	ELE-Gen-006	Ter Morshuizen, M.G.	PHA-Gen-051	Vampola, Tomát	SPE-01-005 SPE-01-006
Soegijanto	RBA-05-005-IP	Teramoto, Kenbu	PHA-Gen-005	Van de Par, Steven	PSY-02-003-IP PSY-05-001-IP
Sogorb, Tomás	ULT-04-015	Terranova, Daniela	NOI-01-005-IP	Van Den Abeele, K.	NON-02-002-IP PHA-Gen-015
Sohei, Nishimura	NUM-Gen-007	Teslenko, V.S.	PHA-Gen-044 ULT-01-010-IP	Van den Berg, Martin	NOI-02-014
Solana Quirós, P.E.	MAT-01-017 NOI-06-009 NUM-Gen-011 OSP-01-009	Teyssandier, Benoît	PHA-Gen-009	Van der Steen, F. W.	ULT-01-001-IP
Solano González, Julio	ULT-Gen-008	Thaden, Rainer	RBA-04-007-IP	Van Gogh, Willem	RBA-04-014
Somek, Branko	ELE-02-008 PHA-Gen-039	Thijssen, Johan M.	ULT-01-009-IP	Van Honschoten, J.W.	PHA-Gen-001
Sommerhoff Hyde, Jorge	NOI-07-008 NOI-07-012	Thomas, Callum	NOI-01-005-IP NOI-01-008	Van Leeuwen, Hans J.A.	ENV-Gen-015
Sondhi, Mohan	NUM-02-004-IP	Thomas, Olivier	MUS-06-006-IP	Van Luxemburg, L.C.J	RBA-02-012-IP
Song, Jun-il	PHA-Gen-028	Thompson, Lonny	NUM-05-005-IP NUM-07-007-IP	Van Opstal, John	PSY-01-002-IP
Sonntag, E.	RBA-04-021	Thorsson, Pontus J.	NUM-06-005-IP	Van Renterghem, Timothy	OSP-01-007
Sonosa, Dora	NOI-05-001-IP	Tikander, Miikka	ELE-02-004	Van Steelant, D.	MUS-01-002-IP
Soronen, Petri	ELE-02-002	Tinel, Alain	PHA-Gen-030	Van Walstijn, Maarten	MUS-06-004-IP MUS-Gen-004
Sottek, Roland	NOI-07-004-IP	Tinnsten, Mats	MUS-06-009 MUS-Gen-001	Vanhille, C.	NON-02-007-IP
Spagnolo, Renato	PHA-Gen-024	Tjellesen, Lise-Lotte W.	RBA-02-021	Vaquero-Martínez, J.M.	NOI-06-003 NOI-07-019 NOI-07-020 OSP-01-011
Spehr, Carsten	NUM-03-009	Toda, N.	RBA-06-005-IP	Varasi, M.	PHA-01-004
Stallmann, Martina	NOI-05-002-IP	Tohru, Imamura	ULT-04-020	Västfjäll, Daniel	PSY-05-004-IP
Stanzial, Domenico	MUS-02-001-IP MUS-02-003-IP	Tohru, Kato	NOI-04-001-IP	Vázquez, Manuel	NOI-04-017
Stapelfeldt, Hardy	NOI-06-017	Tohyama, Mikio	ELE-03-001-IP ELE-03-002-IP SPA-Gen-016	Vela, A.	ARC-Gen-002
				Velarde, Sandra	NUM-05-012
				Velho, J	ULT-04-011-IP
				Vera, J.	RBA-08-005

Vereecke, Guy	ULT-02-014	Wang, Yong	UNW-01-006	Yamaguchi, Tadashi	ULT-01-011
Vergara, L.	ULT-03-007-IP	Warusfel, Olivier	ELE-02-009	Yamaguchi, Takao	NOI-03-008
Vergez, Christophe	MUS-06-003-IP MUS-06-014	Watanabe, Yoshiaki	RBA-02-009-IP	Yamasaki, Yoshio	SPA-Gen-016
Verhey, Jesko L.	HEA-03-002-IP PSY-02-013	Wedemann, Jörg	HEA-01-002-IP ULT-Gen-005 ULT-Gen-010	Yamashita, Yasuhiro	ENV-Gen-016
Vermeir, Gerrit	RBA-06-004	Wegscheider, Karl	NOI-03-007-IP	Yan, Ying	STA-01-001-IP
Verona, E.	PHA-01-004	Weitze, Christoffer Andreas	NOI-05-002-IP	Yanagida, Masuzo	MUS-03-002-IP MUS-Gen-007
Versnel, Huib	PSY-01-002-IP	Wessel, David	RBA-05-010-IP	Yano, Takashi	NOI-04-011-IP
Vicent, Cristina	ARC-Gen-016	West, Jim	RBA-02-009-IP	Yano, Takashi	NOI-04-011-IP
Vida, Jerónimo	NOI-06-010 NOI-07-016	Wetta, P.	NUM-02-004-IP	Yarai, A.	NUM-06-007
Vílchez-Gómez, R.	NOI-06-003 NOI-07-019 NOI-07-020 OSP-01-011	Wevers, M.	PSY-02-011	Yarovikov, Vladimir	ELE-Gen-008
Villot, Michel	RBA-CIB-004-IP RBA-CIB-005-IP	White, Neil M.	PHA-Gen-015	Yasu, Keiichi	SPA-Gen-005
Vilnius, Gediminas	ELE-Gen-001 OSP-01-010	Wiegrebe, Lutz	PHA-01-003-IP	Yasui, Kyuichi	ULT-02-016
Vincent, B.	RBA-05-009-IP	Wightman, Fred	HEA-01-003-IP	Yebra, M.	RBA-08-005
Vincent, N.	NOI-03-005-IP	Wilde, Andreas	PSY-03-006-IP	Yoiti, Suzukil	HEA-02-004-IP
Vlasie, Valentina	NUM-05-010	Wilhelm, Anne-Marie	ELE-01-008 NUM-05-009	Yokota, Takatoshi	PHA-Gen-026
Voetmann, Jan	RBA-02-021	Wilkins, Volker	ULT-02-008-IP	Yoon, Sung Yong	MUS-01-009
Vogt, Joachim	NOI-01-006-IP NOI-01-007-IP	Wilkie-Chancellor, Nicolas	ULT-Gen-001	Yoshihisa, Koichi	NOI-01-002-IP
Vokurka, Karel	NON-01-002-IP	Willich, Stefan N.	PHA-Gen-030	Yoshioka, Hisashi	NOI-01-001-IP NOI-02-002-IP
Volker, A.W.F.	PHA-Gen-051	Wilm, Mikaël	NOI-05-002-IP	Yumita, Nagahiko	ULT-02-007-IP
Volz, Rudi	NOI-07-003-IP	Windels, F.	ULT-04-002-IP ULT-04-017	<b>Z</b>	
Vorländer, Michael	RBA-06-002-IP	Windsberg, Suzanne	NON-02-002-IP PHA-Gen-015	Zahnert, Thomas	PPA-Gen-006
Vormann, Matthias	PSY-02-010	Winter, Ian M.	PSY-02-012	Zaitsev, Vladimir	NON-02-008
Voronin, D.V.	PHA-Gen-044	Wittkop, Thomas	PSY-01-005-IP	Zamarreño, Teófilo	RBA-02-015 RBA-05-007-IP RBA-05-008-IP
Vos, Ojos	NOI-04-012-IP	Won, Jungyun	PSY-02-006-IP	Zambon, Giovanni	RBA-01-009-IP RBA-02-020
Vos, Rita	ULT-02-014	Woodhouse, Jim	PHA-Gen-033	Zannin, Paulo H. T.	NOI-07-010 NOI-07-011
Vytautas, J. Stauskis	ELE-Gen-001 OSP-01-010	Wright, Oliver B.	MUS-02-002-IP	Zaplana, David	ULT-04-013-IP
<b>W</b>		Wright, Philip	ULT-03-016	Zecchin, Roberto	MAT-01-012
Wada, Mamiko	MUS-03-003-IP	X	RBA-04-004-IP	Zeibig, Andras	RBA-03-005-IP
Waddington, D.C.	OSP-01-012	Xiao, Lejun	RBA-06-003-IP	Zenda, Yasuo	NOI-02-004-IP
Wagner, Marcus M.	NUM-05-002-IP NUM-05-006-IP	<b>Y</b>		Zenker, M.	ULT-05-007-IP
Wakuda, Akiko	RBA-02-002-IP RBA-02-014	Yacci, María R.	PSY-04-004-IP	Zetzsche, Christoph	PSY-05-003-IP
Wallenberg, Marcus	NUM-05-011	Yakhkind, Eduard	PHA-Gen-002	Ziemann, Astrid	OSP-01-008
Wang, Junye	RBA-07-005-IP	Yamada, Ichiro	NOI-01-001-IP NOI-02-002-IP	Zverev, A.Ya	ARC-Gen-003
		Yamada, Jun	ULT-04-022	Zwiers, Marcel	PSY-01-002-IP
		Yamada, Masashi	MUS-01-003-IP MUS-03-004-IP MUS-Gen-007		

