PROGRAMME

International Conference and Exhibition

AUTOMOTIVE NVH COMFORT
LE MANS 2016

Active Vibro-acoustics: Noise Cancellation & Sound Design

PALAIS DES CONGRÈS DU MANS, FRANCE
19 & 20 October 2016
SIA and CTTM will jointly organise the 9th edition of the Automotive NVH Comfort conference that will take place on 19-20 October 2016 in Le Mans. As for the previous editions, the 2016 conference will address a specific topic, which presents a major interest for the automotive NVH community and trends for new technologies.

The specific topic of interest for the 2016 edition is what one might call “Active acoustics and vibrations”, which includes active noise and vibrations cancellation, active sound enhancement and active undesirable noise masking.

This specific topic has been selected by the scientific committee for two main reasons:

1. In the context of ambitious weight reduction objectives and in addition to the well-established passive solutions, the ‘active’ solutions are alternative technologies which present a considerable design potential.

2. Without ICE noise masking, the NVH design of electrical and hybrid vehicles becomes a very difficult task. The ‘active acoustic treatment’, via car loudspeakers, can be used to mask the undesirable high frequency noises and improve the sound quality in the passenger cabin.

Besides this specific topic, a wide range of NVH items will be addressed, such as: vehicles & ICE NVH, new materials, progress in testing technologies and CAE and the new challenge of electrical & hybrid vehicle acoustics.

We are counting on you all to make the Automotive NVH Comfort conference a big success.

Charles Zhang, CONFERENCE CHAIR

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SCIENTIFIC COMMITTEE

PASCAL BOUVET - VIBRATEC
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ARNAUD DUVAL - TREVES
LÉON GAVRIC - GROUPE PSA
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HERVÉ PICHON - CTTM
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CHARLES ZHANG - RENAULT

CONTACTS

PAULINE SENIS - SOCIÉTÉ DES INGÉNIEURS DE L’AUTOMOBILE
79 rue Jean-Jacques Rousseau - 92158 Suresnes Cedex - France • Tel: +33 (0)1 41 44 93 74 – pauline.senis@sia.fr

LUCE CAYTAN - CTTM
Technopole Université - 20 rue Thalès de Milet - 72000 Le Mans - France • Tel: +33 (0)2 43 39 46 44 – lcaytan@cttm-lemans.com
# Programme // 19 October 2016

## Attendees registration - Breakfast in the exhibition

### Keynote Speeches

**09:00**

The new 4-Cylinder Diesel engine - the NVH concept  
*C. Meier*, S. Bikker, P. Mayer, Daimler - Germany

**09:30**

20 years evolution of active acoustic & vibrations in automotive industry, from active engine mount to multi-sense / *C. Zhang*, G. Baudet, Renault - France

## Coffee break in the exhibition

### Systems – Components

**10:00**

Coffee break in the exhibition

**10:30**

**PASS-BY NOISE**  
L. Gavric, Groupe PSA - A. Duval, Trèves

**SYSTEMS – COMPONENTS**  
K. Trdak, Autoneum - N. Dauchez, UTC

**10:30**

Numerical assessment of car pass-by noise  
*A. Appel de Gardane*, FFT - France

Adaptive coatings on gears to improve NVH behaviour  
*G. Eitzinger*, High Tech Coatings - Austria

**10:55**

Sensitivity analysis of models for the prediction of vehicle pass-by noise  
*H. Hamdad*, C. Locqueteau, Renault - France  
*C. Pezerat*, Laum - France  
*B. Gauvreau*, IFSTTAR - France

Comparing frequency and time-domain simulation for NVH predictions in reluctance machines  
*C. Faria*, Siemens - France

**11:00**

Renault’s Z.E. Voice: an Avant-Garde to Quiet Road Transport Vehicles Regulation  
*T. Schmitt*, C. Locqueteau, F. Silvani, Renault - France

Weight reduction and functionality increase on lightweight absorptive packages  
*M. Seppi*, G. Lepoittevin, T. Delpero, D. Guignier, Autoneum - Switzerland

**11:45**

Toward indoor pass by noise to improve development process from experimental to virtual testing  
*L-F. Pardo*, UTAC CERAM - France

Simulation & Optimization Driven Design Process for S&R Problematic  
*S. Gourg*, Groupe PSA - France  
*I. Benhayoun*, K. Fihler, ALTAIR - Sweden  
*J. Masson*, Altair - France

**12:10**

Drastic exterior noise reduction through optimization of acoustic shielding package  
*M. Thivant*, Vibratec - France

Microstructure morphological optimization of foam-based lightweight insulators  
*T. Hoang*, A. Duval, V. Marcel, Faurecia - France  
*C. Perrot*, Univ. Paris Est - France

## Lunch break in the exhibition

### Powertrain

**14:05**

Optimisation of wheel suspension for NVH comfort  
*I. Chapelier*, Groupe PSA - France

Predicting acoustic performance of perforated absorbing silencers, taking into account flow  
*A. Gallet*, ESI - France  
*B. Gardner*, A. Mejdi, ESI - USA

**14:30**

Keeping Transmission & Powertrain NVH Under Control: Systemic Approach by a Tier 1 Supplier  
*S. Charles*, B. Pennec, Schaeffler - Germany

Sound intensity measurements in turbocharger compressor ducts using multi-microphone arrays  
*I. Jaimes*, J. Charley, CRITTM2A/Arts et Métiers Paristech - France  
*A. Millot*, CRITTM2A - France

**14:55**

Air intake acoustic radiation on an internal combustion engine. Numerical and Experimental analysis at component state  
*C. Chaufour*, Groupe PSA - France  
*J. Thomas*, Mecaplast Group - France

Modeling of acoustical porous materials under flow  
*F. Chevillotte*, MATELYS - France
## Programme // 19 October 2016

### Active Noise Control

- **Application of Virtual Microphone Method for Active Noise Control**
  - **S. Ueno**, Panasonic - Japan

- **Powertrain vibration control using active technology; experience of a carmaker**
  - **J. Dusi, A. Kreis**, Groupe PSA - France

### Methods

- **Trends in Aeroacoustics Vehicle Engineering**

- **The Benefits of Experiencing NVH and CAE Data from Pre-concept to Production**
  - **D. Bogema**, Bruel & Kjaer - USA

### Coffee break in the exhibition

### 15:20

- **15:20**
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- **The Practice of the Narrow-Band Active Noise Control for Fan BPF noise**
  - **P. Li**, Caeri - China

- **Insulation performance of plastic parts with active control**
  - **B. Surowiec, P. Gilotte**, Plastic Omnium - France
  - **T. Costes**, FFT - France

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- **Active Noise Cancellation in a passenger car exhaust system with finite elements**
  - **X. Robin**, FFT - Belgium
  - **N. Driot**, TENNECO 0mbH - Germany

- **Comprehension of phenomena generating acoustic noise inside the passenger compartment of cars. Sources identification and simulations**
  - **J. Carpentier, C. Pezerat, J-H. Thomas**, LAUM - France
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### 18:20

- **End of first day**

### 19:00

- **Le Mans Cathedral private tour & organ concert**

### 20:00

- **Gala Dinner**
# Programme

**20 October 2016**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
<th>Location</th>
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<tbody>
<tr>
<td>08:30</td>
<td>Breakfast</td>
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<tr>
<td>09:00</td>
<td>Powertrain</td>
<td>L. Gavric, Groupe PSA - P. Bouvet, Vibratec</td>
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<tr>
<td>09:00</td>
<td>Chattering and Dual Clutch Transmission</td>
<td>X. Descottes, O. Balenghien, Groupe PSA - France</td>
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<tr>
<td>09:25</td>
<td>Topology Optimization of an Engine Bracket under Harmonic Loads</td>
<td>R. Helfrich, N. Wagner, INTES - Germany</td>
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<td>Acoustic optimization of air intake systems</td>
<td>M. Doggui, Mecaplast - France</td>
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<td>Automotive Air Conditioning Sound Prediction</td>
<td>O. Cheriaux, Valeo - France</td>
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<td>Pendulum Based Torsional Damper: Benefits and Drawbacks</td>
<td>H. Mahé, Valeo - France</td>
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<td>10:15</td>
<td>Coffee break in the exhibition</td>
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<td>C. Zhang, Renault - A. Courjal, Siemens</td>
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<td>Methods</td>
<td>J. Gratadour, SIA - C. Pezerat, LAUM</td>
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<td>10:45</td>
<td>Interior Noise Effects of Active Vibration Cancellation for a 4 Cylinder Engine</td>
<td>E. Kruse, Vibraacoustics - Germany</td>
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<td>10:45</td>
<td>Sound power qualification of engine component in enclosed environment using an innovating acoustic imaging processing: Generalized Acoustic Holography</td>
<td>S. Paillasseur, T. Le Magueresse, O. Gaude, MicrodB - France</td>
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<td>10:45</td>
<td>Challenges in integrating active systems within exhaust lines: sound generation and noise cancellation</td>
<td>H. Steinikilber, D. Bönnen, H-J Kim, Faurecia - Germany</td>
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<td>10:45</td>
<td>A new measurement technique for ducts characterization</td>
<td>J-C. Le Roux, E. Portier, N. Poulain, CTTM - France</td>
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<td>10:45</td>
<td>Narrow band attenuation by an ANC feedback algorithm based on Youla-Kucera parameterization</td>
<td>B. Vau, Ixblue - France</td>
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<td>11:10</td>
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<td>Sensor-less feed forward electrical Active Control Mount</td>
<td>T. Enomoto, Nissan Motors - Japan</td>
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<td>12:00</td>
<td>Relevance of inverse method to characterize structure borne noise sources: application on an industrial case and comparison with a direct method</td>
<td>J-L. Wojtowicki, A. Cloix, Vibratec - France</td>
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<td>13:00</td>
<td>NVH improvement and sound enhancement using Active Vibration Control</td>
<td>J-L. Gastineau, Hutchinson - France</td>
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<td>Inverse method on vehicle’s panels for wind noise source identification</td>
<td>G. Baudet, Renault - France</td>
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<td>13:00</td>
<td>Active Noise Control and Sound Design at European Automotive OEMs: Current applications and future trends</td>
<td>R. Schirmacher, Müller BBM - Germany</td>
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<td>13:00</td>
<td>Experimental sound source reconstruction using iPTF method: conformal mapping, FE model correlation and contributions by parts</td>
<td>N. Totaro, INSA Lyon - France</td>
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<td>14:20</td>
<td>ANC Microphone Disturbances: A Method of Detection in ANC Applications</td>
<td>R. Nöthen, Bose Automotive - USA</td>
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<td>14:20</td>
<td>Engine Sound Enhancement for production cars – the Peugeot experience</td>
<td>L. Gagliardini, Groupe PSA - France</td>
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<td>15:00</td>
<td>Closing remarks</td>
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<td>16:00</td>
<td>End of conference</td>
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EXHIBITION & SPONSORSHIP

An exhibition will take place near the conference rooms during the 2 days of the symposium. This exhibition will allow you to inform the participants, to present your news and to create privileged contacts within this unique gathering of target decision-makers. Maximise your visibility by becoming a sponsor! With a corporate sponsorship, you gain unmatched recognition as an industry leader and generate an abundance of goodwill.

Join the companies which have already booked a stand!

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On quotation or according to company budget

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**SPONSORSHIP & EXHIBITION CONTACT:** LUCE CAYTAN - CTTM
Technopole Université - 20 rue Thalès de Millet - 72000 Le Mans - France
Tel: +33 (0)2 43 39 46 44 – lcaytan@cttm-lemans.com
REGISTRATION FORM

Automotive NVH Comfort - Active Vibro-acoustics: Noise Cancellation & Sound Design 19 & 20 October 2016 Réf: 2016-05

PLEASE COMPLETE AND RETURN THIS FORM:
by mail: CTTM // Luce CAYTAN - Technopole Université – 20 rue Thalès de Milet – 72000 Le Mans – France
by e-mail: lcaytan@cttm-lemans.com
by fax: +33 (0)2 43 39 46 47

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Position: ..............................................................................................................................................

Address: ..............................................................................................................................................

Postcode: ...................................................... City: ................................................................ Country: .......................................

Tel: ..........................................................................

Email: ..........................................................

VAT number: ..........................................................................................................................................

Registration fees

1164 € VAT incl. (970 € VAT Excl.) - Non Members
1032 € VAT incl. (860 € VAT Excl.) - SIA, CTTM, SFA members
588 € VAT incl. (490 € VAT Excl.) - Co-authors/Small companies/Labs/Researchers/Univ. (< 100 employees)
576 € VAT incl. (480 € VAT Excl.) - CFA 2016 Le Mans academic attendees → Membership number: ........................................

144 € VAT incl. (120 € VAT Excl.) - PhD students**
48 € VAT incl. (40 € VAT Excl.) - Members Students**

0 € - Main speaker must register online > www.sia.fr

*Small firms, Researchers and laboratories must not come under the control of big firms (> 100 employees)
**Please attach your student card - Gala dinner is not included

Payment Please precise the invoice address

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REGISTRATION CONDITIONS

• Registration fees include participation in the conference, proceedings, book of abstracts, refreshment breaks and lunches and dinner.
• Where it is not possible to send the payment together with the form, each registration should be accompanied by an official purchase order. Failing reception of an official purchase order or payment on the day of the congress, we regret that you will not be allowed entry to the congress.
• When we have received the registration form, we will send you a confirmation message and an invoice. Please indicate the accounts department address where necessary.
• In case of cancellation before 19 September 2016, 30% of the registration fees will be retained. After this date, the entire registration fee will be retained. Registered participants not able to attend may nominate a substitute. Written notice must be provided.
USEFUL INFORMATION

ACCESS

Palais des Congrès et de la Culture du Mans
Rue d’Arcole - 72 000 Le Mans, France

Paris → Le Mans:
- 2 hours by car
  Car park available: entrance at boulevard Demorieux or rue Barbier
- 54 minutes by train, from Montparnasse station
  Le Mans station is 7 minutes from the Palais des Congrès by foot.

Public transportation in Le Mans
Bus line 17 (stop at “Palais des Congrès”)

HOTEL ACCOMMODATION

IBIS STYLE***
+33 (0)2.43.85.49.00

HOTEL CHANTECLER***
+33 (0)2.43.14.40.00

IBIS LE MANS CENTRE**
+33 (0)2.43.23.18.23

HOTEL LE CHARLESTON**
+33 (0)2.43.24.87.46

Le Mans &
the Plantagenet City