



CALL FOR PAPERS

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 can call “**Active acoustic and vibrations**”, which includes active noise and vibrations cancelation, active sound enhancement and active undesirable noise masking.

This specific topic is selected by the scientific committee, for two main reasons:

1. Due to ambitious weight reduction objectives, the ‘passive’ solutions have achieved their limits. The ‘active’ solutions are the alternative technologies which present an important design potential.
2. Without ICE noise masking, the NVH design of electrical and hybrid vehicle 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 of this specific topic, a large scope of NVH items will be addressed, such as: vehicle & ICE NVH, new materials, progress in testing technologies and CAE and new challenge of electrical & hybrid vehicle acoustics.

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

Charles Zhang, CONFERENCE CHAIR

SCIENTIFIC COMMITTEE

- PASCAL BOUVET** - VIBRATEC
NICOLAS DAUCHEZ - UTC
ARNAUD COURJAL - SIEMENS
ARNAUD DUVAL - FAURECIA
LÉON GAVRIC - PSA PEUGEOT CITROËN
JEAN GRATADOUR - SIA
DANIEL JUVE - ÉCOLE CENTRALE DE LYON
SAÏD NAJI - VALEO
CHARLES PEZERAT - LAUM
HERVÉ PICHON - CTTM
LAURENT POLAC - RENAULT
KRESIMIR TRDAK - AUTONEUM
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

TOPICS TO BE ADDRESSED

- Integration of smart control for NVH (infotainment, active control, sound design per new technologies...)
- Customer perception of noise and vibration, environmental issues and regulations
- Powertrain acoustics and vibrations (ICE)
- Acoustics and vibration of electric and hybrid vehicles
- Flow-induced noise / Aeroacoustics
- Recent advances in NVH of automotive systems and components
- Road induced noise and vibrations
- Acoustic insulation of vehicle body (lightweight design)
- Recent advances in simulation and hybrid test methods
- Quality processes applied for acoustic

SUBMISSION INFORMATION

- **Experts in the topics mentioned above who would like to take part in this conference are invited to submit their abstracts by 7 march 2016. Please use the attached submission form and send it to pauline.senis@sia.fr**
- Conference language: English only
- The abstract selection criteria are the scientific relevance, the clarity of the text and the good level in English.
- All necessary instructions for the preparation of the paper will be sent to the selected authors.
- The authors will have to submit a paper for inclusion in the conference proceedings.



The committee will select the most promising papers to be published in the magazine *Ingénieurs de l'Automobile*

➤ YOUNG ENGINEER PRICE

In order to encourage the vocation and the motivation for technical careers, a specific PRICE FOR THE BEST PAPER written by young engineers and/or researchers, will be delivered by the scientific committee of the conference.

The price concerns the principal authors under **35 years-old** of all the accepted conference papers.

CRITERIA FOR WINNING THE PRICE

- relevance of presented topics
- scientific interest
- rigor of used methods
- limpidity and clarity of presentation

Moreover, the winner's article will be published in the magazine *Ingénieurs de l'automobile*.



If you want to candidate, please read the information above regarding the submission process. It is the same as the other candidates.

EXHIBITION & SPONSORING

An exhibition will take place near the conference rooms during the 2 days of the conference. This exhibition will allow you to inform the participants, to present your new products or solutions and to create privileged contacts within this unique gathering of target decision-market.

BECOME A SPONSOR! Maximize your visibility by becoming a sponsor: with a corporate sponsorship, you gain unmatched recognition as an industry leader and generate an abundance of goodwill.

Consider our 4 packages: **BRONZE, SILVER, GOLD and PLATINUM**

	Bronze	Silver	Gold	Platinum
RATES (exc. VAT)	2 200 €	3 000 €	3 500 €	4 000 €
Fitted-out booth	6 sqm	9 sqm	12 sqm	18 sqm
Included invitations	1	2	4	6
Logo on all congress documents		x	x	x
Ad in the book of conference			x	x
Ad in the programme				x
Banner in the e-mailing campaigns				x
Extra badges		490 €		

Gala dinner sponsoring

On quotation or according to company budget

ADVERTISING

Do not miss the opportunity to advertise in the congress documents: a portal to leading decision-makers in the automotive industry.

RATES (exc. VAT)	Back cover	Inside	Inside front cover	Inside back cover
Programme	1 300 €	950 €	1 100 €	1 100 €
Book of conference	1 300 €	950 €	-	1 100 €
Insertion of leaflet in bag			1 000 €	
Cords and badges			700 €	
Banner in the e-mailing campaigns			700 €	

EXHIBITORS CONTACTS: 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



Automotive NVH Comfort | Le Mans 2016

Active Vibro-acoustics: Noise Cancellation & Sound Design

→ 19 & 20 October 2016 – Palais des Congrès du Mans

Selection criteria

- Scientific relevance
- Clarity of the text
- Good level in English

→ The organisation committee reserve the right to make recommendations and requests to the authors in order to meet their expectations in terms of quality and topics orientation.

The authors

About the main speaker:

Title : _____ Forename : _____ Surname : _____
Age* : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

* If you want to candidate for the YOUNG ENGINEER PRICE, you must be under 35 years old.

About the co-authors#1 :

Title : _____ Forename : _____ Surname : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

About the co-authors#2 :

Title : _____ Forename : _____ Surname : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

About the co-authors#3 :

Title : _____ Forename : _____ Surname : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

About the co-authors#4 :

Title : _____ Forename : _____ Surname : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

About the co-authors#5 :

Title : _____ Forename : _____ Surname : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

About the co-authors#6 :

Title : _____ Forename : _____ Surname : _____
Position : _____
Company : _____
Full address : _____
Phone : _____
Cell : _____
E-mail : _____

ATTENTION: Only the main speaker is free of participation fees.

The abstract

- **Topics classification**

- 1. Integration of smart control for NVH (infotainment, active control, sound design per new technologies...)
- 2. Customer perception of noise and vibration, environmental issues and regulations
- 3. Powertrain acoustics and vibrations (ICE)
- 4. Acoustics and vibration of electric and hybrid vehicles
- 5. Flow-induced noise / Aeroacoustics
- 6. Recent advances in NVH of automotive systems and components
- 7. Road induced noise and vibrations
- 8. Acoustic insulation of vehicle body (lightweight design)
- 9. Recent advances in simulation and hybrid test methods
- 10. Quality processes applied for acoustic

- Résumé

Title of paper:

Abstract (max. 1500 characters):

Relevance and innovation of your presentation:

Comments: