Automotive and Railway Comfort

Acoustics & Vibrations

SIA and CTTM are again jointly organizing the 7th edition of the Automotive and Railway Comfort congress at the Palais des Congrès et de la Culture du Mans on October 24th and 25th, 2012.

Like previous editions, this congress will be an opportunity to bring together the leading experts to examine the actual events and the latest developments in automotive & railway NVH field.

A special session concerning the new pass-by regulation (R51-03) will be organized. This session include 7 communications from UTAC, automotive OEM, suppliers and engineering companies focusing on the database monitoring and on the impact on environmental protection and on automotive industry competitivity.

Another attractive point is the presentation of a new aeroacoustic solver: Lattice Boltzmann Solver developed by a consortium including industrial companies and academic institutes.

2012

Le Mans

October 24 & 25, 2012

Palais des Congrès et de la Culture du Mans



www.sia.fr



www.cttm-lemans.com

9 h 00

Introduction

L. LAMOTTE - Micro dB / Q. LECLERE - LVA INSA de Lyon

		Automotive Air Conditioning - from the beginning until now U. DAUSCH - Valeo Thermal Systems Product		
	Session	1 – Aeroacoustics		
	9 h 30	Flow-induced noise predictions of complete HVAC systems using a Lattice Boltzmann Method F. PEROT, M. MESKINE, F. GILLE - EXA Corporation S. VERGNE, F. DUPUY - PSA Peugeot Citroën	10 h 30	High speed train aeroacoustic solution for community and interior noise using Lattice Boltzmann Method M. MESKINE, F. PEROT, M-S. KIM, S. SENTHOORAN, D-M. FREED,
	10 h 00	Aeroacoustic computations with a new CFD solver based on the Lattice Boltzmann Method D. RICOT - Renault / E. FOQUET - CS Communication et Systèmes H. TOUIL - ENS / H. MACHROUKI - Gantha / F. CHEVILLOTTE - Matelys M. MEDHI - Université Pierre et Marie Curie		Z. SUGIYAMA, F. POLIDORO, S. GAUTIER - EXA Corporation
			m visit, Coffe	ee break
•	Session	2 – Simulation and test methods		
	11 h 30	Measurement of SEA parameters for vehicle glasses M-H. MOULET - CTTM / F. VANHERPE - PSA Peugeot Citroën	12 h 30	Vibro-acoustic variability of a Body In White using Monte Carlo Simulation in a development process F. BARILLON, P. MORDILLAT, P. LARDEUR - Renault
	12 h 00	Source localization inside an automobile cabin using calculated Green's functions O. MINCK - Micro dB / T. LE MAGUERESSE - ENSIM		M-B. BOUBAKER - UTC
		13 b 00	Lunch	
	Session	3 – Powertrain and mechanical components	Session	14 – Vehicle interior noise and trimmed body acoustics
	14 h 30	Rear axle modal behavior under road excitation E. BARILLON - Renault	14 h 30	Multi-scale design of vibro-acoustic packages F-L. JAOUEN, F. CHEVILLOTTE, F-X. BECOT - Matelys
4	15 h 00	Noise radiated by an electrical automotive powertrain: numerical simulation. J-B. DUPONT - Vibratec	15 h 00	Acoustic simulation techniques for the design of vehicle audio equipment. R. HALLEZ, K. VANSANT - LMS International
	15 h 30	Modeling methodology for the prediction of gearbox whining noise B. NELAIN, P. BOUVET - Vibratec J. PERRET-LIAUDET, E. RIGAUD - École Centrale de Lyon	15 h 30	Predicting the Loudness of Rattle in a Center-Console S. MERZ, P. SHORTER - VESI Group
		16 h 00 Exhibition a	visit, coffee	break
	16 h 30	Acoustic optimization of anechoic termination with and without superimposed flow E. PORTIER - CTTM / J-P. DALMONT - LAUM	16 h 30	Comprehensive Process for Car Engine Sound Design : from signal processing to audio system integrated in the vehicle
	17 h 00	Experimental determination and prediction of turbocharger transfer matrix. E. PORTIER - CTTM / J-P. LEANDRE - Renault	17 h 00	P. BOUSSARD - Genesis Inhomogeneous PP/GF undertray : a new broadband absorber.
	17 h 30	Noise radiation of air intake components - Transparency qualification method J. GRATADOUR - PSA Peugeot Citroën	17 h 30	J-F. RONDEAU, A. DUVAL, H. PERRIN - Faurecia Acoustic insulation of thermoset panel
	18 h 00	Interpreting sound emission of diesel engine separating combustion and mechanical		P. GILOTTE, B. SÜROWIEC - Plastic Omnium

18 h 30 Exhibition
20 h 00 Cocktail and gala dinner

Session 5 – Pass-by noise regulation

۹	8 h 30	Exterior pass-by noise regulation - Monitoring database and impact assessment	9 h 30	Tyre noise limits in Europe and its contribution to new pass-by noise regulation
		L-F. PARDO, S. FICHEUX - UTAC		E-U. SAEMANNS - Continental
	9 h 00	Point of view of automotive OME for new pass-by noise regulation R51-03, challenges and new deployment of radiation sources	10 h 00	Exterior noise development process for commercial vehicles: contribution of driveline components to pass-by noise
		C. LOCQUETEAU - Renault		A. SICRE, N. BLAIRON - Volvo Global Truck Technology
		J-F. SALEM - PSA Peugeot Citroën		

10 h 30 Exhibition visit, Coffee break

	11 h 00	How to meet new Pass-by noise regulation?	12 h 00	Short review of engine bay acoustic trim and its effects to external and
		B. VERRECAS - LMS International		internal noise
١				K. TRDAK - Autoneum
ı	11 h 30	An Efficient Approach for Developing and Evaluating Appropriate Exterior Sounds		
		A. BRÜCKMANN, R. WILLIAMS - Novisim		

12 h 30 Lunch

Session 2 bis - Simulation and test methods

A. SCHUMACHER, T-G. NIELSEN - B&K

14 b 00	ROADSENSE - Prevention of involuntary lane departure by road audio touc
	warning lines
	P. ANELLI - Aximum
	F. VIENNE - IFSTTAR / O. HOUIX - IRCAM
	F. ROSEY - CETE Normandie Développement / L-F. PARDO - UTAC
14 h 30	Panel Noise Contribution Analysis Reference (PNCAR)

B. ZAJAMSEK, A. GROSSO - Microflown Technologies

15 h 00 Interior noise sources identification with multiple spherical arrays in aircraft
 S. PAILLASSEUR, L. LAMOTTE - Micro dB
 D. RIBAS - Daher-Socata
 15 h 30 Application of innovative beamforming arrays and resolution improvement algorithms

to achieve noise reductions on a reach stacker L. BOLLADE - DYVA

J-C. PASCAL - LAUM / V.BENOIT - ACB

16 h 00 End of Conference



Scientific committee



Pascal BOUVET - Vibratec

Jean-Pierre CIOLCZYK - Hutchinson

Nicolas DAUCHEZ - SUPMECA

Arnaud DUVAL - Faurecia

François FOHR - CTTM

Jean GRATADOUR - PSA Peugeot Citroën

Dominique HABAULT - CNRS-LMA Marseille

Daniel JUVE - Ecole Centrale Lyon

Saïd NAJI - Valeo

Laurent POLAC - Renault

Dominique ROMY - LMS

Kresimir TRDAK - Autoneum

Charles ZHANG - Renault







Registration fees include participation to the congress, CD of proceedings, book of proceedings, coffee breaks, lunches, cocktail and dinner.

Where it is not possible to send the payment with the registration form, each registration form should be joined by an official purchase order.

In case of cancellation before October 1st, 2012, 50 % of the registration fees will be retained by the organisers. After this date the full registration fees will be retained. Registered participants not able to attend may nominate a substitute. Written notice must be provided.

CONTACT:

C.T.T.M: Luce Caytan

Tél.: 02 43 39 46 44 - Fax: 02 43 39 46 47

e-mail: lcaytan@cttm-lemans.com

Exhibition booths

9 sqm. fitted-out stand : 3 468,40 € VAT included (2900 VAT excluded) :

- Melamine partitions with aluminim stucture
- 1 table + 4 chairs
- 1 WIFI access
- A recto page to be included in the proceedings
- Conference registration for 2 people (access to the congress, proceedings and CD-Rom, breaks, lunches, cocktail and dinner)

Le Mans - Centre ville

For further information: www.ville-lemans.fr







20, rue Thalès de Mile Technopole Université 72 000 Le Mans



Automotive and Railroad Comfort

October 24th & 25th, 2012

Name, first name:			
Company:			
Address:			
Postcode:	City :		
Tél:	Fax :		
E-mail :			
VAT number:			
Intend to par	rticipate at symposium		
Speaker: (free of charge) Members (SIA, CTTM): 1004.64 € TTC (840 € HT)			
			Adhesion number :
Non member : 1 136.20 € TTC (950 € HT)			
Will attend the dinner (included in registration fee. Booth rental $(9 \text{ m}^2): 3468,40 \in \text{TTC}$ (2900 \in HT)			

Must be return before October 1st 2012 with your payment (check or bank transfert) payable to CTTM



Références bancaires / bank details CTTM BNP Chasse Royale, F-72000 Le Mans. Compte 30004-01648-00021058781-20

