Sustainable NVH solutions inspired by ecology and economy
June 9 - 11, 2010, Graz, Austria

Final Program

Keynotes by:
Dr.-Ing. Bernd Pletschen - Daimler AG
Dr. Patrick Oliva - Michelin Group
Albert Kaltenhauser - BMW Group

Topics:
- NVH and hybrid/electric drives
- Light weight design contra NVH
- Powertrain optimisation/refinement
- Vehicle integration and refinement
- Modeling and manufacturing of intake and exhaust systems
- Tire-road and rolling noise

Registration and updated information on the ISNVH 2010 programme is available on:
www.isnvh.com
Welcome to the 6th ISNVH Congress!

Sustainable NVH solutions inspired by ecology and economy – an interdisciplinary approach presented by leading international experts.

Today, the critical situation of the international automotive industry requires adequate and creative solutions. In order to support the recovery of the automotive market, it is mandatory to provide both low cost and low emission products. The challenge to NVH engineers is to design light weight vehicles with acceptable noise and vibration characteristics. Hybrid and electric drives become of increasing importance. We need experimental and simulation techniques to meet proposed solutions and to evaluate the resulting NVH. The design cycle is demanding for early design decisions and to benefit from novel materials and arrangements.

During the recent decade, the International Styrian Noise, Vibration and Harshness (ISNVH) Congress turned out to be the European Automotive Noise Conference. The upcoming ISNVH congress is focusing on highly up-to-date topics for car manufacturers, suppliers and customers currently facing the tense economic situation.

More than 40 papers and presentations in various sessions and workshops during 2,5 days will be complemented by a technical exhibition presenting the latest simulation and experimental technologies.

The conference schedule also offers a perfect surrounding: An evening reception at the University of Technology in Graz, a guided city tour and a social evening at the ‘Orangerie’, located amidst the impressive scenery of the Burggarten will leave a lot of time for individual exchange of ideas and networking.

We cordially invite you to participate in this international interexchange!

Registration and updated information is available on our website www.isnvh.com.

We look forward to welcoming you in Graz on June 9-11!

Jost Bernasch
Managing Director
Virtual Vehicle

Hans H. Priebsch
Scientific Dir. “NVH & Friction”
Virtual Vehicle

Josef Affenzeller
Director Research Coord.
AVL List GmbH.
Sessions and Workshops

Sessions are organised for the following topics:

- NVH and hybrid/electric drives
- Light weight design contra NVH
- Powertrain optimisation and refinement (excitation, transfer and perception)
- Vehicle integration and refinement
- Modeling and manufacturing of intake and exhaust systems

In addition to the traditional technical presentations, covering the most important current topics, there will be workshops on several critical developments, including:

- Damping: passive, active, layered, optimised design, measurement, materials
- Accurate and efficient prediction of intake and exhaust noise
- Experimental sound field reconstruction and visualization techniques
- Mid-frequency vibro-acoustic modelling tools (EU Project MID-MOD)

Sessions and workshops will be complemented by a technical exhibition presenting the latest simulation and experimental technologies.

Conference Chair:

Jost Bernasch
Managing Director
VIRTUAL VEHICLE, Graz, Austria

Josef Affenzeller
Director Research Coordination
AVL List GmbH, Graz, Austria

Hans H. Priebsch
Scientific Head, NVH & Friction
VIRTUAL VEHICLE, Graz, Austria

Programme Committee:

Josef Affenzeller
AVL List GmbH, Graz, Austria

Jost Bernasch
VIRTUAL VEHICLE, Graz, Austria

Jan-Welm Biermann
RWTH AACHEN UNIVERSITY, Aachen, Germany

Franz Brandl
AVL LIST GmbH, Graz, Austria

Bernard Challen
SHOREHAM SERVICES, Engineering Consultancy, Shoreham-by-Sea, U.K.

Harald Macher
MAGNA STEYR Fahrzeugtechnik AG & Co KG, Graz, Austria

Eugenius Nijman
Nijman Acoustics & Vibration, Varese, Italy

Hans H. Priebsch (Chair)
VIRTUAL VEHICLE, Graz, Austria

Detlef Schulze-Fehrenbach
Daimler AG, Stuttgart, Germany

General Information:

The congress is organised by VIRTUAL VEHICLE Research and Test Center, AVL LIST GmbH, MAGNA STEYR Fahrzeugtechnik AG & Co KG, as well as by ACstyria Autocluster GmbH and SFG - Steirische Wirtschaftsförderungs GmbH in cooperation with the Society of Automotive Engineering International (SAE).

Congress location: CONGRESS GRAZ
Albrechtgasse 1
8010 Graz, AUSTRIA
(Entrance: Sparkassenplatz)

Congress language: English

Accommodation: Hotel recommendations can be found on the ISNVH website.

Online Registration for Participation and Exhibition:

Mrs. Julia D’Orazio
Tel.: +43 (316) 873 9094
Fax: +43 (316) 873 9072
e-mail: julia.dorazio@v2c2.at

www.isnvh.com

Registration conditions:

The conference is organised by VIRTUAL VEHICLE (Kompetenzzentrum Das virtuelle Fahrzeug Forschungsgesellschaft mbH), Graz (Organizer). The number of attendees is limited. Conference language is English, a simultaneous translation into German will be available. The conference fee is EUR 990,- (university members / students: EUR 495,-) plus VAT. The fee includes conference proceedings, coffee breaks, lunch buffet and evening reception. The conference fee is due upon receipt of the invoice. Cancellations before May 8, 2010 will be charged with a service fee of EUR 72,00, after this date with 50% of the conference fee. The full amount is due upon non-show but a substitute can be appointed. The Organizer reserves the right to change the conference programme and the list of speakers without prior notice. In case of cancellation of the conference, the attendees will be immediately informed and conference fees paid in advance will be fully refunded. In any case, liability of the Organizer is limited to the full refund of the paid conference fee.
# 6th ISNVH 2010 - Program Overview

## Wednesday, June 9th, 2010

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00 - 13.30</td>
<td>Arrival, Registration</td>
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</tbody>
</table>
| 13.30 - 15.45 | Workshop 1: Damping: passive, active, layered, optimised design, measurement, materials  
Chair: T. Bein, Fraunhofer Institute |
| 15.45 - 16.15 | Coffee Break                                                         |
| 16.15 - 18.30 | Workshop 3: Experimental sound field reconstruction and visualization techniques  
Chair: E. Nijman, Nijman Acoustics & Vibration |
| 19.00 - 22.00 | Evening reception (please register in advance)                        |

## Thursday, June 10th, 2010

<table>
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<tr>
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<tr>
<td>08.00 - 09.00</td>
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| 09.00 - 09.40 | Opening Session  
Chair: Hans H. Priesch, Virtual Vehicle Research and Test Center (VF) |
| 09.40 - 10.15 | Keynote  
Automotive NVH - Trends and Challenges for Fascinating and Sustainable Future Products  
B. Pletschen, Daimler AG |
| 10.15 - 10.45 | Coffee Break                                                        |
| 10.45 - 12.45 | Session 1: NVH and hybrid/electric drives  
Chair: J.W. Biermann, RWTH Aachen |
| 12.45 - 14.15 | Lunch Break                                                         |
| 14.15 - 15.45 | Session 2: Light weight design contra NVH  
Chair: E. Nijman, Nijman Acoustics & Vibration |
| 15.45 - 16.15 | Coffee Break                                                        |
| 16.15 - 17.45 | Session 3: Powertrain optimisation and refinement  
Chair: J. Guggenmos, BMW Group |
| 18.15 - 19.30 | City of Graz - Guided Tour  
(please register in advance) |
| 19.30 - 23.00 | Social Evening (please register in advance)                          |

## Friday, June 11th, 2010

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| 09.00 - 11.30 | Session 5: Modelling and manufacturing of intake and exhaust systems  
Chair: J. Affenzeller, AVL List GmbH |
| 11.50 - 12.25 | Keynote  
Product sound at BMW  
A. Kaltenhauser, R. Liebing, BMW Group |
| 12.25 - 13.00 | Keynote  
Advanced research in electric vehicles  
P. Oliva, Michelin Group |
| 13.00 - 13.15 | Congress Summary & Concluding remarks  
J. Bernasch, Virtual Vehicle Research and Test Center |
| 13.30 - 14.00 | Transfer to VIRTUAL VEHICLE Research & Test Center  
(please register in advance) |
| 14.00 - 15.00 | Lunch and Visiting Acoustic Facilities at VIRTUAL VEHICLE  
(please register in advance) |
| 15.00 - 16.30 | Transfer and Visiting Acoustic Facilities at AVL, MAGNA STEYR Fahrzeugtechnik  
(alternative) |
| 17.00 | End of Congress & Departure |
## Program

Speakers are written in bold print

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Chair: T. Bein, Fraunhofer Institute<br>
T. Bein, Fraunhofer Institute<br>
E. Balme, SDTools<br>
A. Christie, PPG Deutschland Business Support GmbH |
| 13.30 - 13.45 | Workshop 2: Accurate and efficient prediction of intake and exhaust noise<br>
Chair: F. Brandl, AVL List GmbH<br>
K. S. Andersen, Dines Emission Technology A/S<br>
Y. Einem*, F. Reich, VF; M. Abom, KTH Stockholm; F. Brandl, AVL List GmbH<br>
A. Onorati, Politecnico di Milano |
| 13.45 - 14.00 | Discussion                                                            |
| 14.00 - 15.00 | Lunch and Visiting Acoustic Facilities at VIRTUAL VEHICLE             |
| 15.00 - 15.30 | Coffee Break                                                          |
| 15.30 - 16.00 | Workshop 3: Experimental sound field reconstruction and visualization techniques<br>
Chair: E. Nieman, Nieman Acoustics & Vibration<br>
H. E. de Bree, A. Korns, Microflow Technologies<br>
F. Deblauwe, H. van der Auwerger, LMS Int.<br>
J. Gomes, Bruel & Kjaer SVM AS |
| 16.00 - 16.30 | Discussion                                                            |
| 16.30 - 17.00 | Workshop 4: Mid-frequency vibro-acoustic modelling tools / EU Project MID-MOD<br>
Chair: C. F. Hartung, Volvo Technology Corporation<br>
J. Rejsek, H. H. Priebsch, F. Reich, VF<br>
A. Pratellesi, M. Pierini, N. Baldanazni, Universita di Firenze<br>
B.R. Mace, J. Renno, Institute of Sound and Vibration Research<br>
C. F. Hartung, Volvo Technology<br>
| 17.00 - 17.30 | Discussion                                                            |
| 17.30 - 18.30 | Evening reception (please register in advance)                        |

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<td>Coffee Break</td>
</tr>
<tr>
<td>11.15 - 11.45</td>
<td>Session 4: Vehicle integration and refinement&lt;br&gt;Chair: H. Macher, MAGNA STEYR Fahrzeugtechnik AG &amp; Co KG&lt;br&gt;Acoustic quality evaluation of heavy commercial vehicles&lt;br&gt;V. Falasca, F. Bandera, G. Irato, CRF&lt;br&gt;L. Zunino, M. Martini, M. Mossino, IVECO&lt;br&gt;SAE Paper 2010-01-1411&lt;br&gt;Sound Field Visualization using Spherical Holography&lt;br&gt;J. Gomes, K. Haddad, J. Halík, Bruel &amp; Kjaer SVM A/S&lt;br&gt;SAE Paper 2010-01-1420</td>
</tr>
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### Program

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**Thursday, June 10th, 2010 (cont.)**

<table>
<thead>
<tr>
<th>Time</th>
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<th>Session 2</th>
<th>Session 3</th>
<th>Session 4 (cont.)</th>
</tr>
</thead>
</table>
| 11.45 - 12.15 | NVH-development of a novel serial-hybrid diesel-electric propulsion system for urban bus applications  
S. Ruschmeyer, J. W. Biermann, RWTH Aachen  
M. Eddi, Evobus GmbH  
SAE Paper 2010-01-1401 | Light weight design contra NVH  
Chair: E. Nijman, Nijman Acoustics & Vibration  
Noise Radiation Driving Parameters  
D. Blanchet, W. Van Hal, A. Callet, ESI GmbH  
SAE Paper 2010-01-1407 | Powertrain optimisation and refinement  
Chair: J. Guggenmos, BMW Group  
Effect of Local Mesh Refinement on Inverse Numerical Acoustic: presentation and mitigation  
K. Vansant, S. Donders, M. Tournour, LMS International  
SAE Paper 2010-01-1413 | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG  
Simulation of the dynamical behavior of elastic multi-body systems with bolted, rough contact interfaces  
J. S. Högl, Graz University of Technology  
W. Sextro, Universität Paderborn  
SAE Paper 2010-01-1422 |
| 12.15 - 12.45 | NVH of Electric Vehicles with Range Extender  
A. Rusl, B. Graf, AVL List GmbH  
SAE Paper 2010-01-1404 | A procedure for efficient trimmed body FE simulation based on Transfer Admittance Model of the Sound Package  
Th. Courtola, C. Berntoli, Riter Alloitive Management AG; J. Octs, Dr. Ing. h.c. F. Porsche AG  
SAE Paper 2010-01-1405 | Simulation Methodology for Consideration of Injection System on Engine Noise Contribution  
B. Klarin, M. Jelovíc, AVL-AST d.o.o.  
Th. Resch, AVL List GmbH  
SAE Paper 2010-01-1410 | Power train model refinement linked with parameter updating through nonlinear optimization  
J. Girstmair; H. H. Priebsch, F. Reich, Virtual Vehicle  
J. Zehetner, AVL List GmbH  
SAE Paper 2010-01-1421 |
| 12.45 - 14.15 Lunch Break | Boundary Element Energy Method for the acoustic prediction of external and interior vehicle noise - Application on a Truck  
M. Thivant, C. Aurelien, P. Bouvet, Vibratec  
N. Biron, C. Bragoy, C. Peynoux, Volvo SP  
SAE Paper 2010-01-1408 | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 14.15 - 14.45 | Coffee Break | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 14.45 - 15.15 | Squeak & Rattle simulation - a success enabling in the development of the new Saab 9-5 cockpit, without prototype hardware  
J. Weber, I. Berhayaou, Saab Automobile AB  
SAE Paper 2010-01-1423 | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 15.15 - 15.45 | Noise source localization on washing machines by conformal array technique and near field acoustic holography  
P. Chiarotti, M. Martarelli, E.P. Tomasini, P. Castellini, Università Politecnica delle Marche  
R. Beniwal, SenSound  
SAE Paper 2010-01-1429 | Separation of airborne and structure-borne tire-road noise based on vehicle interior noise measurement  
R. Sottek, B. Philippens, HEAD acoustics GmbH  
SAE Paper 2010-01-1430 | Influence of low-frequency powertrain-vibrations on driveability-assessments  
A. Albers, Ch. Zingel, IPKE Kaffruehne  
J. Zehehner, K. Metz, AVL List GmbH  
SAE Paper 2010-01-1419 |
| 15.45 - 16.15 | Mid-frequency vibro-acoustic modelling tools / EU funded projects  
Chair: J. Zehetner, AVL List GmbH | Powertrain and driveline integration using path analysis in the new SAAB 9-5  
P. O. Stüresson, Ch. Svensson, P. Johansson, P. Stöhr, Saab Automobile AB  
SAE Paper 2010-01-1418 | Measurement of airflow resistivity variation due to temperature and pre-load effects and its impact on simulated sound absorption inside car passenger compartment  
C. Guglielmone, A. Schiavi, INRIM  
SAE Paper 2010-01-1417 |
| 16.15 - 16.45 | Valve Cover’s Numerical Vibro-Acoustic Analysis  
J. Gomes  
F. Deblauwe  
M. Kumbhar  
SAE Paper 2010-01-1413 | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 16.45 - 17.15 | Seperation of airborne and structure-borne tire-road noise based on vehicle interior noise measurement  
R. Sottek, B. Philippens, HEAD acoustics GmbH  
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R. Sottek, B. Philippens, HEAD acoustics GmbH  
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R. Beniwal, SenSound  
SAE Paper 2010-01-1429 | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 17.45 - 18.15 | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 18.15 - 19.30 | City of Graz - Guided Tour  
(please register in advance) | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
| 19.30 - 23.00 | Social Evening  
(please register in advance) | Vehicle integration and refinement  
Chair: D. Schulze-Fehrenbach, Daimler AG |
## Program

**Speakers are written in bold print**

**Friday, June 11th, 2010**

### Session 5

**Modelling and manufacturing of intake and exhaust systems**
Chair: J. Affenzeller, AVL List GmbH

- **Numerical two-port characterization of the aeroacoustic propagation effects in exhaust mufflers including nonuniform mean flow effects**
  - B. Vanelderen, W. De Roock, W. Desmet, KU Leuven
  - SAE Paper 2010-01-1428

- **Lightweight Active Exhaust Silencers for Passenger Vehicles**
  - J. Krüger, M. Pommener, R. Jebasinski, Eberspächer GmbH & Co. KG
  - SAE Paper 2010-01-1425

### Session 3 (cont.)

**Powertrain optimisation and refinement**
Chair: J. Guggenmos, BMW Group

- **Sound power estimation of a mounted car engine**
  - A. Grosso, J. Wind, Microfotn Technologies
  - H. E. de Bree, Microfotn Technologies/HAN University
  - SAE Paper 2010-01-1415

- **Active Noise Control and Active Sound Design - enabling factors for new powertrain technologies**
  - R. Schimacher, Müller-BBM
  - SAE Paper 2010-01-1408

### Coffee Break

### 10.30 - 11.00

**Analysis of Exhaust Elements using the Transfer Matrix Method**
K. S. Andersen, Dray Emission Technology A/S
SAE Paper 2010-01-1426

**Experimental Facility for the Complete Determination of Sound Transmission in Turbochargers of Turbochargers**
H. Tikoj, H. Rämmal, M. Abom, H. Böden, KTH Stockholm
SAE Paper 2010-01-1424

### Coffee Break

### 11.30 - 11.50

**Keynote**

**Product sound at BMW**
A. Kaltenhauser, R. Liebing, BMW Group

**Keynote**

**Advanced research in electric vehicles**
P. Oliva, Michelin Group

### 13.00 - 13.15

**Congress Summary & Concluding remarks**
J. Bernasch, Virtual Vehicle

**Transfer to VIRTUAL VEHICLE Research & Test Center** (please register in advance)

**Lunch and Visiting Acoustic Facilities at VIRTUAL VEHICLE** (please register in advance)

**Transfer and Visiting Acoustic Facilities at AVL, MAGNA STEYR Fahrzeugtechnik** (alternative)

**End of Congress & Departure**

Registration and updated information on the ISNVH 2010 programme is available on:

www.isnvh.com
Side Events

Welcome to Graz!

Graz, Austria's second largest city, is an ideal setting for successful meetings, international conventions, conferences and seminars. The city features a beautiful Old Town district, a diverse cultural programme, a wide variety of fine restaurants, and several excellent conference venues. This effective blend of exemplary meeting infrastructure and great hospitality makes Graz a perfect choice for your event!

Since the Middle Ages, a town has developed around the Schlossberg hill, a source of justifiable pride for the city's inhabitants. In fact, it was the unique ensemble of architectural styles spanning from Gothic, Baroque, Renaissance, Art Nouveau to modernity that prompted UNESCO to add Graz to its World Cultural Heritage list. Graz is also full of contrasts, particularly in its cultural life, where contemporary art and architecture play a vital role alongside the longstanding classical cultural tradition represented by the opera, theatre and a classical music festival. In 2003, Graz was named the Cultural Capital of Europe, and the striking art centre "friendly alien" and the Island in the Mur were only two of the many great achievements of this year of celebration.

There is also a growing, widespread appreciation of the culinary pleasures that the people of Graz have long treasured. The Styrian products and the region's specialities, particularly the outstanding wines and the dark pumpkin seed oil, are the main features of this distinct culinary identity. In addition, Mediterranean ambience abounds: in picturesque beer gardens, in rustic farmers' markets, in narrow alleys, on lively squares and in dreamy courtyards.

Graz has been a university town since 1585! Four universities with more than 16 faculties have solidified Graz's international reputation as a centre for science and research. Private high-tech businesses and research institutions – mainly in the aerospace and automotive technology, but also in biotechnology and plant design – export know-how from Graz all over the world.

For over 25 years now, Graz has enjoyed an excellent reputation as a venue for scientific congresses. Every year, approximately 40,000 participants of more than 100 international congresses visit Austria's second largest city. Historic and modern congress centres, easy accessibility via air, train and car, fine hotels and restaurants, interesting supporting programmes and day excursions, and excellent services are the best guarantees for success. Congress participants appreciate the comfortable scale of the Styrian capital and the walking distance between the congress centres and the hotels. The wide variety of sights, high-class cultural events and Styrian regional culinary delicacies are other important factors for choosing Graz.

Your weekend in Graz:

Following are some suggested activities for your weekend in Graz:

Friday, June 11th

On Friday night you can visit our wonderful opera house and see The Sound of Music at 7:30 pm. There will also be a cabaret with Gernot Haas at 8 pm at the TPA Kronecenter, or you could choose to experience the legendary Ghostwalk through the city of Graz at 8 pm.

Saturday, June 12th

The following afternoon would be a great chance to get to know the old city of Graz. A popular city tour takes place from 2:30 to 5:30. You can find registration info at:

Further Information and Bookings:

Graz Tourismus Information, Herrengasse 16, 8010 Graz
www.graztourismus.at
Yes, I will participate in the 6th International Styrian Noise, Vibration & Harshness Congress from June 9-11, 2010 at the Congress Convention Center in Graz. I accept the registration conditions stated below. The conference fee is EUR 990,- (Gov. & Univ. Rep.: EUR 495,-; Speakers: EUR 297,-) plus VAT.

Title / first name / last name

Company

Department

Street / number

ZIP code / city      Country

Phone      Fax

E-Mail

Date / Signature      Company stamp

I will participate at the   [ ] Evening Reception, June 9th  [ ] Guided Graz Tour, June 10th  [ ] Social Evening, June 10th

Registration conditions:

The conference is organised by VIRTUAL VEHICLE (Kompetenzzentrum Das virtuelle Fahrzeug Forschungsgesellschaft mbH), Graz (Organizer). The number of attendees is limited. Conference language is English, a simultaneous translation into German will be available. The conference fee is EUR 990,- (university members / students: EUR 495,-) plus VAT. The fee includes conference proceedings, coffee breaks, lunch buffet and evening reception. The conference fee is due upon receipt of the invoice. Cancellations before May 8, 2010 will be charged with a service fee of EUR 72,00, after this date with 50% of the conference fee. The full amount is due upon now-show but a substitute can be appointed. The Organizer reserves the right to change the conference programme and the list of speakers without prior notice. In case of cancellation of the conference, the attendees will be immediately informed and conference fees paid in advance will be fully refunded. In any case, liability of the Organizer is limited to the full refund of the paid conference fee.

Please return by fax to:  +43 (316) 873 9072
or register online on www.isnvh.com

VIRTUAL VEHICLE
Infelfeldgasse 21a, 8010 Graz, Austria
attn. Mrs. Julia D’Orazio
Tel.: +43 (316) 873 9094
Fax: +43 (316) 873 9072
e-mail: julia.dorazio@v2c2.at

6th International Styrian Noise, Vibration & Harshness Congress
The European Automotive Noise Conference
in co-operation with SAE International
General Information:

**Congress location:**
CONGRESS GRAZ
Albrechtgasse 1
8010 Graz, AUSTRIA
(Entrance: Sparkassenplatz)

**Congress office:**
VIRTUAL VEHICLE
Research and Test Center
Inffeldgasse 21A, 8010 Graz

Mrs. Julia D’Orazio
Tel.: +43 (316) 873 9094
Fax: +43 (316) 873 9072
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**Registration:**
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2010 programme is available on:

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