

VDI

Entwicklung Konstruktion Vertrieb

Call for Papers

3rd National Conference
with exhibition

October 8th and 9th 2007
BG Academy Dresden

with simultaneous translation
from German into English

Human Vibration

Effects on Health - Performance - Comfort

- Vehicles
- Work machines
- Hand-held devices and tools
- European Vibration Directive



Preface

At work and in traffic humans are exposed to mechanical vibrations to a considerable extent. Such vibration effects may be the impairment of health as well as the loss of performance and comfort.

The large scope of effects of human vibrations – concerning almost all industrial areas – requires an interdisciplinary approach to the problem. Novel development methods for the assessment of health and comfort such as e.g. the numeric simulation and the application of dummies offer new perspectives for the development and assessment of vibration reduction measures in both the whole-body and the hand-arm-vibrations area. The conference serves to comprehensively present the current state of the art in the areas mentioned and to explain their significance by means of practice-oriented examples.

In Germany, the ordinance on the prevention of safety and health risks arising from exposure to noise and vibration at workplaces, will implement the EC Directive on vibrations (2002/44/EC).

It is expected by begin of 2007 and will provide requirements in detail for employers – the first time in this area – concerning risk assessment and prevention measures for exposure to vibration at exposure action levels as well as at exposure limit values. This includes among others the principle of technical risk minimisation at sources, the assessment of vibration exposure at workplaces, information and training, a programme of technical and/or organisational measures intended to reduce to a minimum exposure to mechanical vibration and the attendant risks and health surveillance measures. The conference will present first experiences and practical aids for the implementation process of the ordinance.

Target audience

The conference addresses development and measurement engineers in the area of occupational health and safety; safety specialists; technical supervisors and occupational medics; representatives of authorities and scientific institutions in the following industrial branches: automotive, aviation, railway vehicles and watercrafts, mechanical engineering, agriculture and forestry, building industry; as well as experts in the areas of comfort analysis and evaluation, NVH-simulation and testing. Special invitation is also addressed to executives who are responsible for the adherence to the directives from the expected ordinance on the prevention of safety and health risks arising from exposure to noise and vibration at workplaces in their facilities.

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Conference organizer

VDI Wissensforum IWB GmbH

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Scientific support

VDI Society for Development, Design and Marketing

The conference is supported by

BG-Institute for Occupational Safety and Health – BGIA

Conference website

www.vdi.de/hs2007

Main topics

Original papers will be presented in plenary sessions and parallel sessions and will be solicited in subject areas including:

1. Exposure of human to vibrations in practice

- a. Passenger cars, commercial vehicles, work machines, industrial trucks
- b. Handheld machines
- c. Workplaces in buildings
- d. Means of transportation (watercrafts, railway vehicles, aircrafts)

2. Effects of human vibrations

- a. Evaluation and assessment
- b. Biomechanics
- c. Physiological reactions
- d. Comfort – performance – health

3. Human-Vibration-Directive (EU-Directive 2002/44/EC)

- a. Requirements for employers due to the directive
- b. Experience and help with the implementation (Europe-wide)
- c. Risk assessment, prevention measures

4. Experimental and numerical simulation technology

5. Design and development of vibration reduction measures

- a. Passive measures and systems
- b. Active systems for vibration reduction

6. Vibration emission, testing methods, standards

- a. New EU machinery directive (2006/42/EC)
- b. Measurement instrumentation for vibrations

If your paper is accepted you will be allowed 20 minutes to talk about it and 10 minutes to respond to questions and comments from the audience.

Conference languages

German and English. German manuscripts include an English summary of about one and a half pages.

Simultaneous translation is provided for English speaking participants.

Submission of abstracts

Please submit your abstract by following the link „Call for Papers/Online-Access“ at the conference’s website

www.vdi.de/hs2007

All submissions must be either Microsoft Word (DOC) or Portable Document Format (PDF) files. The abstract must be received by April 13th, 2007.

The accepted papers will be printed in the conference proceedings provided to the conference participants and published as a bound volume of the VDI-Report series.

The abstract must include

- Title of the paper
- Information about the author(s): name, title(s), company address, department, affiliation, e-mail, telephone and fax number
- In which topic area the presentation should be listed
- A statement specifying what is new in the presentation

The length of the abstract should not exceed one type written page.

The proposals will be reviewed by the programme committee.

Accepted speakers get a 50% discount off the regular conference registration fee.

The attendees get their copy of the proceedings with CD at the beginning of the conference.

Schedule

Deadline for abstracts:	April 13th, 2007
Notification of acceptance:	May 31st, 2007
Deadline for final manuscript:	July 13th, 2007

The conference program and the registration form will be available by app. 10 weeks prior to the conference.

Accompanying technical exhibition

This is an attractive occasion for you to present your products and services to an interested and qualified audience of specialists. Take the opportunity to have your company represented at the exhibition by booking floor space for your own stand.

For further information visit

www.vdi-wissensforum.de/ausstellungen or
fachausstellungen@vdi.de

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