10th International Conference on Hand-Arm Vibration

7-11 June 2004

Las Vegas, Nevada, USA

Sponsored by:

Center for Mechanical & Environmental Systems Technology
University of Nevada, Las Vegas

US National Institute for Occupational Safety and Health

International Advisory Committee of International Conference on Hand-Arm Vibration

2nd Announcement
Welcome to Las Vegas, the entertainment capital of the world:

The 10th International Hand-Arm Vibration Conference will be the second time this international conference has been hosted in the US. The first was the 2nd International Hand-Arm Vibration Conference, which was held in Cincinnati, Ohio, in 1975.

Hand-arm vibration syndrome (HAVS) was first identified in the US in the small Midwestern town of Bedford, Indiana, in 1918. Dr. Alice Hamilton, a Federal Government physician, was summoned to Bedford at the request of limestone quarry cutters and carvers who used pneumatic hammers and other similar tools. After daily use of their tools, these workers complained of tingling and/or numbness in their fingers (paraesthesia) often followed by painful attacks of finger blanching. The finger blanching increased in severity and duration with increased exposure to hand-induced vibration from their tools. Dr. Hamilton’s study in 1918 was one of the first to establish a relationship between Raynaud’s Phenomenon (of occupational origin) and the use of vibrating hand-held tools.

Dr. William Taylor hosted the 1st International Hand-Arm Vibration Conference in Dundee, Scotland, in 1972. He wanted to establish an international forum to publicly present and discuss the results of research that addressed the medical, epidemiological, engineering, and legal aspects of HAVS. Since then, international conferences have been held in Cincinnati (1975), Ottawa (1981), Helsinki (1985), Kanazawa (1989), Bonn (1992), Prague (1995), Umea (1998), and Nancy (2001). All of these conferences have significantly contributed to the body of knowledge and public awareness of the many issues related to HAVS. The published proceedings from these conferences have become blueprints for assessing the prevalence of HAVS in worker populations, for developing national and international standards related to hand-arm vibration, and for developing ergonomic and engineering strategies for reducing the number of cases of HAVS in worker populations.

Research results presented at previous international hand-arm vibration conferences have significantly enhanced our understanding of the medical, epidemiological, and engineering aspects of hand-arm and hand tool vibration. This understanding has been essential to the development of strategies for reducing worker exposure to hand-transmitted vibration and for decreasing the prevalence of HAVS in worker populations. However, much work still remains. We hope to continue this tradition of knowledge transfer at the 10th International Hand-Arm Vibration Conference in Las Vegas.

The upcoming conference will run for five days instead of the usual four. During this time, there will be fourteen technical sessions devoted to presenting the results of research from researchers around the world. As a means of hopefully attracting more tool manufacturers and other practitioners in fields related to hand-arm and hand tool vibration to the conference, there will be four tutorial sessions. These sessions will be designed to educate practitioners in areas related to the medical, ergonomic, testing, engineering, and legal aspects of HAVS.

On behalf of the Local Committee, the International Advisory Committee, and others who will assist in sponsoring the 10th International Hand-Arm Vibration Conference, I wish to extend to you a cordial invitation to come to Las Vegas in June 2004.

I look forward to seeing you in Las Vegas in 2004

Douglas D. Reynolds, Ph.D.
Chair of the International Advisory Committee
Conference Organizer
Center for Mechanical & Environmental Systems Technology (CMEST)
University of Nevada, Las Vegas

Local Committee
Douglas D. Reynolds, Chair
Tony Brammer
Martin Cherniak
Ren Dong
Tom Jetzer
Linda Reynolds
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Jack Wasserman

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Ronnie LUNDSTROM, Sweden
Bernard MARTIN, U.S.A.
Ilmari PYYKKO, Finland
Douglas REYNOLDS, U.S.A.
Maeda SETSUO, Japan
Jukka STARCK, Finland

Place and Date
Flamingo Hilton Hotel & Casino, Las Vegas, Nevada, USA
7-11 June, 2004

Conference Secretariat
Scientific Secretariat:
Douglas REYNOLDS
Center for Mechanical & Environmental Systems Technology
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4505 Maryland Parkway
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Registration:
Linda REYNOLDS
Secretariat Conference HAV 2004
3939 Briarcrest Court
Las Vegas, NV  89120-1305, USA

Telephone 1 702 458 1681
Fax: 1 702 454 0085
Email: lkr@fremont.vegasnet.org
Conference Program

Conference Content

The conference program will include presentations of focus lectures and technical papers and posters.

Two-hour focus sessions will begin the technical sessions for each day. There will be five focus sessions. They are:

- **Monday, 7 June** - Medical Issues Associated with Hand-Arm Vibration
- **Tuesday, 8 June** - Vibration Measurements and Standards
- **Wednesday, 9 June** - Tool Design and Selection for Minimizing Exposure to Hand-Transmitted Vibration
- **Thursday, 10 June** - Legal Issues Associated with Hand-Arm Vibration
- **Friday, 11 June** - Prevention Strategies for Minimizing the Occurrence of Hand-Arm Vibration Syndrome (HAVS) among Worker Populations

Three invited speakers will make 30-minute presentations at the beginning of each focus session, followed by a 30-minute panel discussion on issues related to their presentations.

Technical papers are invited in the following areas associated with hand-arm vibration:

- Medical and epidemiological aspects of HAVS
- Health care for HAVS patients
- Diagnostics and quantitative relationships to HAV exposure
- Issues associated with the European Human Vibration Directive
- Regulatory aspects associated with HAVS
- Techniques for measuring exposure to hand-arm vibration and hand tool vibration
- Biomechanical models of the hand-arm system
- Hand tool design techniques for lowering hand-transmitted vibration exposure
- Legal aspects associated with HAVS
- Medical and ergonomic intervention strategies to prevent HAVS
- Engineering intervention strategies to prevent HAVS

**TAYLOR Prize**

The TAYLOR Prize is awarded in memory of William TAYLOR, the Scottish occupational physician who contributed so much to the prevention of hand-arm vibration diseases associated with occupational exposure to vibration. The TAYLOR Prize will be awarded to a person or company who has made significant transfers of knowledge from laboratory research to workplace applications.

**Vendor Exhibits**

Manufacturers of equipment designed for vibration measurements, protective clothing, and antivibration tools will display their products during the conference.
Conference Registration

Please use the accompanying Microsoft Word file when registering and mail, fax, or email the completed registration form to the addresses shown below.

Registration Deadline

Deadline for taking advantage of reduced registration fees:
31 March 2004

Registration forms must be sent to the following address:
HAVC 2004
3939 Briarcrest Court
Las Vegas, NV 89120-1305, USA
or faxed to:
1 702 454 0085
or emailed to:
lkr@fremont.vegasnet.org

Registration Fees

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<tr>
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<th>Before 31 March 2004</th>
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<tr>
<td>Conference Delegates</td>
<td>$590 (US)</td>
<td>$643 (US)</td>
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<tr>
<td>Accompanying Persons</td>
<td>$130 (US)</td>
<td>$180 (US)</td>
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Registration Fees for Delegates Covers:
- Conference Abstracts and Proceedings
- Access to all Scientific Sessions
- Poolside Welcoming Party (Monday Evening) and Gala Dinner (Thursday Evening)
- CMEST Laboratory Tour
- Lunches and Break Refreshments (Monday-Friday)

Registration Fee for Accompanying Persons Covers:
- Poolside Welcoming Party (Monday Evening) and Gala Dinner (Thursday Evening)
- CMEST Laboratory Tour

Payment

Payments must be made in US Dollars by one of the following methods:

1) Credit Card:
   VISA or MASTERCARD (We do not have a secure Web Site. If paying by VISA or MASTERCARD, please fax the following information to 1 702 454 0085: type of card; name that appears on card, expiration date, amount to be charged to card.)
2) Bank Check
   Make checks payable in US Dollars to HAVC 2004 and mail to Linda Reynolds.

Confirmation

A letter of confirmation will be sent upon receipt of registration form and payment.
Hotel Registration

All activities associated with the 10th Internation Conference on Hand-Arm Vibration will be held at the Flamingo Hilton Hotel & Casino, 3555 S. Las Vegas Blvd., Las Vegas, Nevada. The hotel has a wildlife habitat and a 15-acre Caribbean-style water playground. A block of 160 rooms has been reserved for the conference at the following guaranteed room rates: Sun-Thurs - $85/Fri-Sat - $119. These group rates will apply from June 3 through June 15. Rooms will be reserved on a first-come-first-serve basis. To receive these room rates, rooms must be reserved before 7 May 2004.

Hotel room reservations must be made directly with the Flamingo Hilton. Reservations can be made by:

- Calling the Flamingo Hilton reservation number 1 800 835 5686. When calling, request the group rate for the 10th International Hand-Arm Vibration Conference.

- The Internet at www.parkplace.com/flamingo/lasvegas. It may be possible to obtain lower room rates by booking over the Internet. The current internet room rates for the dates of the conference are: Sun-Thurs - $55/Fri-Sat - $120.

The check-in time for rooms is 3:00 PM, and the check-out time is 12:00 PM. The Flamingo Hilton has a check-in desk at the McCarran Internation Airport adjacent to luggage pickup.

Registration and Hotel Cancellation

Registration Cancellation

Conference registration cancellations must be received by 16 April 2004. A $50 cancellation fee will be charged. No refunds will be given after 16 April 2004. Requests for registration cancellations must be sent to Linda REYNOLDS, Secretariat Conference HAV 2004.

Cancellation of Hotel Reservation

The Flamingo Hilton Hotel & Casino room cancellation policy applies.

Social Program

There are two social events planned for the conference:

- Poolside Welcoming Party on Monday Evening, 7 June.
- Gala Dinner with Entertainment on Thursday Evening, 11 June.

The Flamingo Hilton has a 15-acre Carabbean-style water playground. Las Vegas is the Entertainment Capital of the World with many easily accessible local areas of interests and evening entertainment venues. Therefore, conference delegates and accompanying persons will be free to choose their own non-conference social activities.
Call for Papers and Instructions for Authors

A call for papers is made to researchers, health and safety specialists, manufacturers, legal experts, etc. in the fields of hand-arm vibration and hand tool vibration. Proposed papers will be reviewed by the Local Committee.

Deadline for Submitting Conference Abstracts
13 February 2004

The following instructions apply to both submitted Conference Abstracts and corresponding Technical Manuscripts.

Conference Abstracts must be a minimum of 1 1/2 pages and a maximum of 2 pages in length, must be written in English, and must be submitted in Microsoft Word or rich text format. A bound copy of Conference Abstracts will be distributed on the first day of the conference. Technical Manuscripts must be submitted in Microsoft Word or rich text format. Conference Abstracts must be electronically submitted by email to reynolds@clark.nscee.edu. Technical Manuscripts may be submitted either by email to reynolds@clark.nscee.edu or CD ROM. The CD ROM should be mailed to Douglas REYNOLDS or submitted during the conference. The maximum number of pages for Technical Manuscripts is 12.

Paper size: 8.5 in. (21.6 cm) x 11 in. (27.9 cm) - letter
Text font throughout: Times or Times New Roman, 12 point
Margins: 1 in. (2.5 cm) left, 0.75 in. (1.9 cm) right, 0.75 in. (1.9 cm) top and bottom
Line spacing: single

Title: Bold characters with first letter of each word upper case and centered on page. One space between Title and Author(s).

Author(s): Unbolded characters with first letter of each word in author’s name upper case; authors’ affiliations and addresses lower case, using standard rules for capitalization; and all centered on page. One space between each author and one space between last author and Technical Manuscript abstract for Technical Manuscript or Introduction for Conference Abstract.

Technical Manuscript abstract: Abstract must be less than 200 words. Do not include an abstract in Conference Abstracts.

Headings and subheadings: Bold characters with first letter of each word upper case. One space between headings and subheadings and preceding and following text. Headings are to be left justified. Subheadings are to be indented from the left margin 0.25 in. (0.6 cm). Do not number headings and subheadings.

Body: Text in the body of the submitted Conference Abstracts or Technical Manuscripts is to be both right and left justified. Do not indent the the first line of the first paragraph of each major section or subsection. Indent the first line of each subsequent paragraph 0.25 in. (0.6 cm) from the left margin.
Figures and tables: Figures and tables should be inserted in the text at the top or bottom of a page or immediately preceding a heading or subheading where they are referenced and should be numbered in their order of appearance. Figures and Tables should be centered on the page. Figure titles should be placed below the figures and table titles should be placed above the tables. There should be one space between figures and tables and their respective titles.

References: Bibliographic references should be written according to the following example and listed in alphabetical order in the section labeled References. Do not number the references. References quoted within the body of a Conference Abstract or Technical Manuscript should be identified by (1st author et al, year) placed at the end of the sentences where they are quoted before the period.


Important dates:

- 13 February 2004 - Deadline for receiving abstracts
- 12 March 2004 - Notification of acceptance of abstracts for conference
- 7 June 2004 - Abstract volume given to conference delegates when they register
- 11 June 2004 - Final deadline for submission of Technical Manuscripts for publication in conference proceedings