

Organization

Seminar Venue

Viking Line Ferry
„Amorella“



Accommodation

Please book your cabin only through us. You can only register for the seminar by booking your cabin at the same time latest March 25. Delegates from Finland could either:

start on day 1 in

- Stockholm: cabin Stockholm (April 8, evening)
 - Turku (April 9) - Stockholm (April 9)
- or join the seminar on day 2 (main day) morning in
- Turku: cabin Turku (April 9, morning)
 - Stockholm (April 9) - Turku (April 10)

Cabin rates and categories

A) 2 bed inside cabin with shower/WC	48,-
B) 4 bed inside cabin with shower/WC	76,-
C) 4 bed outside cabin with shower/WC	100,-
D) Luxurious outside cabin, double bed TV, shower/WC	135,-

All cabins can be booked for single use also.
Costs per cabin in Euro.

Attendee fee

Non NAFEMS member Euro 470,- / Person

NAFEMS member free (three credits / Person)*

* NAFEMS standard membership includes six seminar credits per year - if already used, NAFEMS member will get a reduced fee: Euro 375,- / Person
Included are conference proceedings, lunch, coffee breaks.

Hardware and Software Exhibition

Costs for infopoint (1 table + own poster or small display) including power supply: Euro 375,-
All personnel need to register as regular attendees.
Please note that you don't have that much time to build up your infopoint. We urgently recommend only to use easy to build up display material for your booth.

Registration

Please register with registration form, via e-mail (nordic@nafems.org) or visit the NAFEMS website at www.nafems.org -> nordic.

Contact

NAFEMS contact NORDIC
Osterham 23, D-83233 Bernau am Chiemsee
Germany
phone +49 (0) 80 51 – 96 59 3 49
fax +49 (0) 80 51 – 96 74 – 3 37
e-mail: nordic@nafems.org

About NAFEMS

NAFEMS is a vendor neutral, not-for-profit membership association of more than 800 companies from all over the world. It was founded in 1983 with a specific objective „to promote the safe and reliable use of finite element and related technology.“

NAFEMS Nordic Steering Committee

- G. Horigmoe (Norut Technology Ltd, N)
 - chairman
- N. Dam Lerke (Nokia Mobile Phones, DK)
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- J. Freund (University of Helsinki, FI)
- P. Ekedahl (Volvo Aero Corporation, S)

Internet

www.nafems.org



Invitation & Agenda

6th NAFEMS Nordic Seminar:

COMBINING PHYSICAL AND VIRTUAL TESTING

8th - 9th April 2008



Conference will be held at the Viking Line Ferryship: Stockholm (S) - Turku (FI) - Stockholm (S)





Invitation

Combining Physical and Virtual Testing

Virtual testing, i. e. modeling, simulation and analysis of constructions in a computer environment, is today an acknowledged technology which is used by most successful companies. The benefits, such as shorter lead time, reduction of physical prototypes and ability to test situations that can otherwise not be tested beforehand, are solid arguments for a continued evolution in this area.

A virtual model is, however, always an approximation of reality. When possible, results obtained from computer models should be compared to real world behavior. This is essential to get accurate virtual models. The key to an efficient development process is the correlation of virtual and physical testing in a correct way. The optimal amount of physical testing in relation to virtual testing will vary from company to company. It also depends on the type of applications to be solved or products being developed at each company.

The focus for this seminar is to exchange knowledge in the area of combining physical and virtual testing from various types of industry.

Who Should Attend?

The event is aimed at engineers and managers who are involved or interested in establishing efficient and reliable simulation processes.

Exhibition

The seminar will be accompanied by an exhibition of leading software and hardware suppliers and vendors. The exhibition will enable these to feature the latest developments and give all attendants the opportunities to discuss technical topics.

Jonas Dyberg (Simulia Scandinavia, S) and Holger Droege (Medeso AB, S)

Technical coordinators of this seminar and members of the NAFEMS Nordic Steering Committee

Please forward this invitation also to interested colleagues.

Agenda

Tuesday, April 8, 2008

- 20:10 Ferry departure from Stockholm
- 20:15 **Come together in exhibition area**
- 21:00 **Welcome and NAFEMS introduction**
- 21:30 Dinner
- 22:30 End of day 1

Wednesday, April 9, 2008

- 08:45 Ferry departure from Turku
- 09:15 **Welcome to new delegates**
- 09:30 **Keynote-Presentation:**
Correlating Physical and Virtual Testing – a Case from Reality
Ö. Danielsson (Kanthal AB, S)
- 10:00 **Comparison of Test and Analysis Data – Problems and Solutions**
A. von Mach (vMACH Engineering GmbH, D)
- 10:25 **A New Material Model, Tested with Applications from the Paper Industry**
T. Andersson (A-Dev, S)
- 10:50 Coffee break
- 11:20 **A Strain Gages Based Correlation of a Diesel Engine Injector Clamp FE Model**
G. Ferraro (Cummins Ltd., UK)
- 11:45 **Post Processing Tools that Overlay Physical and Virtual Testing**
S. Chatziangelidis (Beta CAE Systems S.A., GR)
- 12:10 **Sponsor presentations**
- Simulia
- Hewlett Packard / GoVirtual
- 12:30 Lunch

- 13:30 **Keynote-Presentation:**
Virtual Durability Testing at Scania CV AB
H. Wentzel (Scania CV AB, S)
- 14:15 **Verification of Sufficient Functional Margins by Analyses and Tests**
P. Ekedahl (Volvo Aero Corporation, S)
- 14:40 **Projectile Impact on Fuel Tanks - High Speed Photo Recordings and Hydrocode Simulations**
Å. Persson (Dynamec Research AB, S)
- 15:05 **Assessing the Reliability of FE Models and Optically Measured Stress-Strain Curves of Polypropylene through Physical and Virtual Testing**
M. Nutini, M. Vitali (Basell Polyolefins, I)
- 15:30 **Smart Testing Using Virtual Vibration Testing**
J. F. Betts, K. Vansant, C. Paulson, J. Debille (LMS International, B)
- 15:55 **Validation of Inductively Coupled Plasma Models at large Knudsen Numbers with Chlorine Chemistry**
K. Shah, M. Megahed (ESI Group, D)
- 16:20 **Calibration of Composite Material Models by Use of Optimization**
H. Strandberg (Esteco Nordic AB, S), M. Perillo (EnginSoft SpA, I)
- 16:45 **Summary and Discussion**
- 17:30 End of Seminar
- 18:55 Arrival in Stockholm
- (20:10 ferry departure back to Turku)

Accompanying hardware and software exhibition

Seminar Sponsors





NAFEMS Contact Nordic
Osterham 23

D-83233 Bernau am Chiemsee
Germany

Registration form / feedback

- I would like to [register my attendance](#) for the 6th NAFEMS Nordic Seminar: „Combining Physical and Virtual Testings“, 8th - 9th April 2008

My company is

- not NAFEMS member (Euro 470,-*)
 NAFEMS member using a free place (free*)
 NAFEMS member without a free place (Euro 375,-*)

You will get a confirmation by e-mail.

* All costs + VAT if applicable.

- I would like to [book following cabin](#)

- Stockholm on April 8 (20:10) - Turku - Stockholm
 Turku on April 9 (morning of day 2, 08:45) - Stockholm - Turku
 category (A - D): _____
 single use
 multiple use - other persons are:

1) _____ 2) _____
 3) _____

- I would like to [register for the exhibition](#)

infopoint (1 table + own poster/small display, power: 375,- Euro
 Myself plus _____ more persons will attend (please register seperately)

- I would like to [sponsor](#) the seminar

- Please send [invitation & agenda](#)

- Please provide [more information](#) about NAFEMS

- Membership Seminars
 Certification „Registered Analyst“ EU-Projekts
 FEM Magazine „Benchmark“ World Congress 09

Sender

Company / University: _____

Dept.: _____

Title: _____

First name, last name: _____

Street: _____

Zip-code, city: _____

Telefon: _____

Fax: _____

e-mail: _____

Date: _____

Signature: _____

Please complete and return to NAFEMS Contact Nordic:
 Osterham 23, D-83233 Bernau am Chiemsee, Germany
 Fax +49 (0) 80 51 – 96 74 – 3 37, e-mail: nordic@nafems.org

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