

## Organization

### Date / Time

2<sup>nd</sup> Nov. 2006 13:00 - 18.00  
3<sup>rd</sup> Nov. 2006 08:30 - 16.00

### Location

Radisson SAS Scandinavia Hotel  
Södra Hamngatan 59-65  
SE-401 24 Göteborg, Sweden  
Tel: +46 - 31 758 50 40  
Fax: +46 - 31 758 50 04  
www.radissonsas.com

### Attendee fee

Non NAFEMS member Euro 450,- / 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 360,- / Person  
Included are conference proceedings, lunch, and coffee breaks and drinks.

### Hardware and Software Exhibition

Costs for empty booth space of max. 2.5 m length including power supply: Euro 350,-  
All personnel need to register as regular attendees.

### Registration

Please register with attached registration form, via e-mail (nordic@nafems.org) or visit the NAFEMS web-site at [www.nafems.org](http://www.nafems.org) -> nordic.

### Contact

NAFEMS Contact Nordic Countries  
Albert Roger Oswald  
Schillerstraße 6  
D-85567 Grafing b. München, Germany  
Tel: +49 80 92 - 8 35 50  
Fax: +49 80 92 - 8 35 51  
e-mail: nordic@nafems.org

### Internet

Please visit [www.nafems.org](http://www.nafems.org) -> nordic for more information about NAFEMS.

## NAFEMS

NAFEMS was founded in 1983 with a specific objective namely: „To promote the safe and reliable use of finite element and related technology.“

Over the years, NAFEMS has become an independent, not-for-profit, international membership association, owned by its member's. The scope of activities spans the original finite element methods, through CFD to Optimization. NAFEMS becomes involved to create awareness and deliver appropriate education and training. To more closely reflect the aims of the evolved organization a new mission statement was produced

- To facilitate international industry, academia and government collaboration, that leverages unbiased multi-disciplinary engineering expertise.
- To improve product and process simulation.
- To have a positive impact on quality, profitability, schedules and safety.

### NAFEMS Nordic Steering Committee

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F. M. Jensen (Risoe National Laboratory, DK)  
V. Sharan (SonyEricsson Mobile Comm., S)  
H. Ilstad (Statoil ASA, N)  
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P. Ekedahl (Volvo Aero Corporation, S)



## Call for Papers & 1<sup>st</sup> Announcement

NAFEMS Nordic seminars:

### INTEGRATION OF STRUCTURAL ANALYSIS (FEA) INTO THE PRODUCT DEVELOPMENT PROCESS

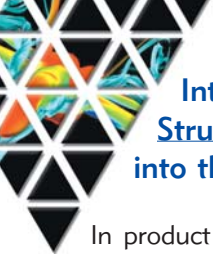
parallel

### INTEGRATION OF COMPUTATIONAL FLUID DYNAMICS (CFD) INTO THE PRODUCT DEVELOPMENT PROCESS

2<sup>nd</sup> - 3<sup>rd</sup> November 2006

Gothenburg, Sweden





## Integration of Structural Analysis (FEA) into the Product Development Process

In product innovation processes, simulation driven design and virtual manufacturing have been implemented to reduce physical testing and to improve product behavior and performance in order to meet customers needs and expectations. Computer simulation not only replaces physical prototypes, but it also introduces a complete new way of experimenting with ideas and enabling the design engineer to explore, test and manipulate the product and receive fast feedback.

Today engineers can perform structural, thermal, dynamic and different types of optimization analyses on a 3D CAD model with bi-directional associativity, allowing the user to make changes to their model in a tightly integrated environment. The recent enhancements in FEA technology, combined with improved meshing technology and faster computers allows for real time interactive process.

We are looking forward to an interesting seminar and appreciate your contribution as presenter, delegate and/or exhibitor.

*Bjorn Tollefsen, EDR Engineering Data Resources as Member of the NAFEMS Nordic Steering Committee and technical coordinator of this seminar*

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## Integration of CFD (Computational Fluid Dynamics) into the Product Development Process

For some time CFD has been used in the analysis phase but today numerical tools are in an increasing number of cases also used in the product development phase in order to cut the costs for new products.

Contributing factors to this are the increasing speed of computers as well as experimental technique to build confidence in simulation results. These combined with an increasing number of available models has led to a broader range of applications for CFD.

To speed up the design process, geometry handling by using CAD models as an integrated part of the analysis process has also increased. As with FEA, virtual prototyping with CFD is becoming more and more an important part of the product development cycle

We are looking forward to an interesting seminar and appreciate your contribution as presenter, delegate and/or exhibitor.

*Stefan Olovsson, Fluent Sweden AB Member of the NAFEMS Nordic Steering Committee and technical coordinator of this seminar*

### Seminar objectives

The seminars are intended as a forum for designers, engineers and companies interested in getting a comprehensive overview and gain knowledge about the latest advances in simulation driven product development. The participants will be shown how leading companies have adopted the technology, illustrated with practical examples on how the technology is being applied in different industries. Thus, the current state of the art and trends as well as future challenges will be presented for the participants.

### Hardware and Software Exhibition

The seminar will be accompanied by an exhibition featuring the latest software and hardware developments. The exhibition is an ideal opportunity for hardware and software vendors.

## Call for Papers

Papers illustrating how simulation is being integrated in the product development are welcome. The presentations should focus on the practical applications of the technology with the help of specific software solutions and highlight current challenges and benefits. Likewise is our intention to bring forward time and cost saving aspects as well as improvements achieved and problems solved in the product innovation process.

Contributions are welcome from all areas of industry as well as from research and academia showing practical use of the technology .

**Abstract deadline extended to 28<sup>th</sup> August 2006**

Abstract length:	500 words max.
Notification of acceptance:	28 <sup>th</sup> August, 2006
Manuscript length:	2 - 10 pages
Manuscript deadline:	<b>16<sup>th</sup> October 2006</b>
Presentations length:	approx. 25 min.
Presentation language	English

If you have any questions please contact us. After notification we will provide more information as well as a template to create your manuscript.

### Sponsors



For more information please visit website:  
[www.nafems.org/conference](http://www.nafems.org/conference)





NAFEMS Contact Nordic  
Schillerstraße 6

D-85567 Grafing  
Germany

## Registration Form / Feedback

I herewith register for the NAFEMS seminar in Gothenburg, Sweden, 2<sup>nd</sup> - 3<sup>rd</sup> November 2006:

### Integration of

- [Structural Analysis \(FEA\)](#)
- [CFD \(Computational Fluid Dynamics\)](#)

### into the Product Development Process

- I would like to present a paper

Please e-mail title and abstract to [nordic@nafems.org](mailto:nordic@nafems.org)

- User presentation
- Exhibitor presentation

- I would like to register for the exhibition

Empty both space of 2,5 m length, power supply: 350,- Euro  
Myself plus \_\_\_\_\_ more persons will attend (please register separate)

- I would like to register my attendance

- My company/department/institute is NAFEMS member -> free
- My company is not a NAFEMS member -> 450,- Euro

- Please send invitation & agenda

- We are interested in sponsoring

- Please provide more information on NAFEMS:

- Membership
- Certification „Registered Analyst“
- FEM Magazine „Benchmark“
- Seminars
- EC projects
- World Congress 2007

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Date: \_\_\_\_\_

Signature: \_\_\_\_\_

Please complete and return to NAFEMS Contact Nordic:  
Schillerstraße 6, D-85567 Grafing, Tel. +49(0)8092-83550,  
Fax +49(0)8092-83551, e-mail: [nordic@nafems.org](mailto:nordic@nafems.org)

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