ERCOFTAC

Ercoftac are the leading European association of research, education and industry groups in the technology of flow, turbulence and combustion. Their objectives include the promoting of joint efforts of European Research Institutes with the object of exchanging technical and scientific information concerning basic and applied research, and the development, validation and maintenance of numerical codes, databases and stimulating the creation of advanced training activities in all fields related to flow, turbulence and combustion.

For further information on the association please visit www.ercoftac.org



Exhibition

We would like to extend an invitation to your company to be part of this seminar. There is an opportunity available for your company to exhibit at the seminar, giving you maximum exposure to a highly targeted audience of delegates, who are all directly involved in simulation, analysis, and design. Please contact Jo Davenport for further information regarding the promotional opportunities available at this event.

Venue

East Midlands Conference Centre University Park Nottingham NG7 2RJ Tel: 0115 846 8000

Map: www.emcc.co.uk/pdf/directions_overview.pdf

As one of the leading conference centres in the UK, the East Midlands Conference Centre in Nottingham is the perfect venue for the seminar.

Please see the website for further details.



ngineers rely on computer modelling and simulation methods and tools as vital components of the product development process. As these methods develop at an ever-increasing pace, the need for an independent, international authority on the use of this technology has never been more apparent.

NAFEMS is the only worldwide independent association dedicated to this technology.

Companies from numerous industries and every part of the globe have invested heavily in engineering technologies such as Finite Element Analysis and Computational Fluid Dynamics. But how do they ensure they get the best return from their investment? How do they develop and enhance their capabilities? How do they know they are using the technology in the most effective way?

NAFEMS is uniquely placed to help answer these questions.

Members receive free places at NAFEMS seminars, discounts on courses, free subscription to BENCHmark magazine, a unique library of analysis publications and much more.

NAFEMS is an association of more than 800 companies from all over the world. Members range from major corporations such as Rolls Royce through mid-sized organisations such as JCB, to small-scale engineering consultants.

If you work with simulation, you should be part of NAFEMS.

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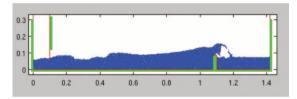


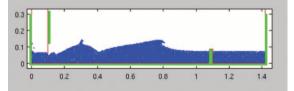
Quality & Reliability of CFD Simulations IV

Multi-phase and Free-surface Flows



JOINT AWARENESS SEMINAR





Wednesday, 5th March 2008 East Midlands Conference Centre, Nottingham, UK







t +44 (0)1355 225688 w www.nafems.org

Quality & Reliability of CFD Simulations IV

Multi-phase and Free-surface Flows

FD is widely applied in engineering design, safety analysis and environmental assessments, in which it is being used to simulate increasingly complex flows. The focus of this seminar is an important class of complex flows which pose considerable technical challenges: multi-phase and free-surface flows.

The aim of this seminar is to bring together current and potential users of CFD to present and discuss methodologies to obtain reliable and consistent results for this class of complex flows. The seminar will also illustrate best practice in CFD, as well as highlighting findings which have wider relevance and impact.

This will be the fourth joint seminar on this theme co-organised by NAFEMS and ERCOFTAC. It follows successful seminars in March 2004, September 2005 and March 2007.

Who should attend?

- Industrial and academic CFD analysts
- Managers of CFD analysis
- Engineers making decisions based on CFD results
- Representatives from organisations who use, or are considering using, CFD consultants
- Representatives from organisations considering investing in an in-house CFD capability

AGENDA

09:30 Coffee & Registration

Morning Chairman's Welcome Dr Herve Morvan, University of Nottingham

Keynote lecture:

Modelling and Numerical Prediction of Dispersed Multiphase Flows in the Frame of the Euler/Lagrange Approach: Importance of Relevant Elementary Processes in Different Flow Situations *Prof Martin Sommerfeld, Martin-Luther-Universität Halle-Wittenberg*

11:00 Coffee break (available in the exhibition area)

Applying Multiphase CFD to Waste Water Systems Dr David Burt, MMI Engineering Ltd

Development and Application of CFD Models for Industrial Multiphase Flows *Dr Simon Lo, CD-adapco*

12:20 Lunch (available in the exhibition area)

Afternoon Chairman's Welcome Dr Chris Lea, Lea CFD Associates Ltd

Modelling Spills of Highly Flammable Liquids Dr Mat Ivings, Health & Safety Laboratory

Dam SPH: Smooth Particle Hydrodynamics for Dam Spills Dr Frazer Pearce, University of Nottingham

14.25 Coffee break (available in the exhibition area)

Free Surface Flow Modelling for Hydraulic Structures Dr Amanda Chapman and Dr David Robinson, HR Wallingford

Some Aspects of Numerical and Physical Modelling for Reliable Multiphase CFD Dr Christiane Montavon, ANSYS Europe Ltd.

15.40 Final Discussion

16:00 Close

REGISTRATION FORM

Please reserve places for me at the seminar:-

Quality & Reliability of CFD Simulations IV Multi-phase and Free-surface Flows

Wednesday, 5th March 2008 • Nottingham, UK

Members of NAFEMS FREE* (see notes below)

Members of ERCOFTAC £130**

Non Members Price £165**

*Free places are subject to your available seminar credits. **VAT at 17.5% should be added for all delegates

Alternatively you may register online at www.nafems.org

I am unable to attend but would like to receive further information on:

NAFEMS ERCOFTAC Other similar events

PERSONAL DETAILS

Title		First Name	
Family Name		Organisation	
Address			
Tel. No.		Fax. No.	
Email			
PAYMENT DE Credit Card Authorised Name	TAILS (if applica	ble)	Visa
Card Number			
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Please complete and return to:- Jo Davenport

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*cover image courtesy of Howaldtswerke-Deutsche Werft AG via MSC.Software