

Registration

www.ercoftac.org

Location



Site de Chatou
6, quai Watier - BP 49 - 78401 Chatou
Tél: 01 30 87 72 44

The EDF R&D Centre, at Chatou, Paris, is on the outskirts of Périphérique de l'Île de France. For travellers arriving by Eurostar, the centre is accessible from Gare du Nord, and for travellers arriving by air, it is accessible from the two airports, namely, Roissy-Charles de Gaulle, and Orly.



Course fees

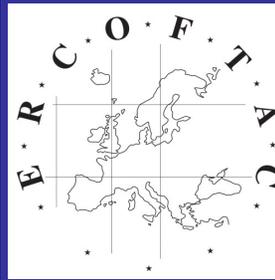
- €640 ERCOFTAC members
- €995 Non-ERCOFTAC members

This fee includes: course registration, course material, lunch, refreshments and course dinner. Please note that accommodation is not included in this fee.

Registration

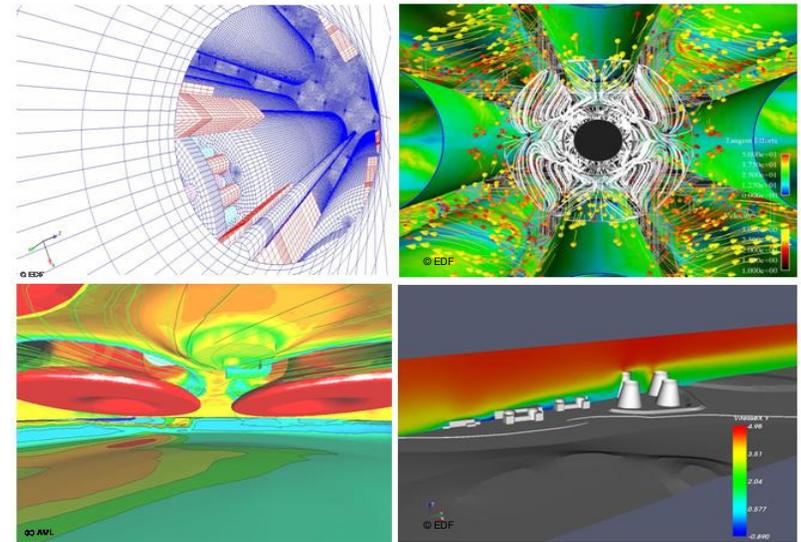
Please contact Dr. Richard E. Seoud at the earliest opportunity to reserve a place:

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Best Practice for Engineering CFD

www.ercoftac.org



13 - 14 September 2010

Electricité de France (EDF)
Chatou, France

Information

ERCRAFTAC, is proud to announce a two day course on 'Best Practice For Engineering CFD' as part of the ERCRAFTAC Best Practice Guidance Course series.

Rationale

This course is targeted at relatively new and improving CFD analysts in engineering industries and consultancies.

It provides the knowledge to effect a step-change in the accuracy and reliability of CFD practices across a range of engineering applications relevant to the power generation, aerospace, automotive, built environment and turbomachinery sectors – amongst others.

Scope

This course is directly relevant to engineering applications of CFD for single-phase, compressible and incompressible, steady and unsteady, turbulent flows, with and without heat transfer. Much of the content will also be relevant to even more complex engineering applications.

The main focus will be on RANS applications, but an introduction to the special considerations required by LES and hybrid methods is also given.

The course provides the means for CFD analysts to significantly enhance their use of commercial and open-source CFD software for engineering applications. In particular, it provides guidance on best practices and highlights common pitfalls to be avoided.

Lecturers

- Prof. Charles Hirsch, *Numecca International*
- Prof. Kemo Hanjalic, *University of Rome*
- Prof. Dominique Laurence, *EDF, France*
- Prof. Michael Leschziner, *Imperial College*
- Prof. Wolfgang Rodi, *University of Karlsruhe*
- Dr. Werner Haase, *Haase Consultants*

Programme – Day 1

Monday, 13 September 2010

Registration and coffee

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|-------|--|----------------------------|
| 9:00 | Course Aims and Overview | <i>Dr. C. Lea</i> |
| 9:30 | Requirements and Challenges for Use of CFD in Industry | <i>Dr. W. Haase</i> |
| 10:30 | <i>Refreshments</i> | |
| 10:50 | Sources and Examples of Best Practice Guidance | <i>Prof. W. Rodi</i> |
| 11:30 | RANS-based Turbulence Modelling I | <i>Prof. M. Leschziner</i> |
| 12:30 | <i>Lunch</i> | |
| 13:30 | RANS-based Turbulence Modelling II | <i>Prof. M. Leschziner</i> |
| 14:30 | <i>Refreshments</i> | |
| 15:00 | LES and LES based Methods I | <i>Prof. D. Laurence</i> |
| 16:00 | Question and Answer Session | <i>All Speakers</i> |
| 19:30 | <i>Course Dinner</i> | |

Programme – Day 2

Tuesday, 14 September 2010

8:30	<i>Coffee</i>	
8:40	LES and LES based Methods II	<i>Prof. D. Laurence</i>
9:40	RANS and LES of Heat Transfer I	<i>Prof. K. Hanjalic</i>
10:40	<i>Refreshments</i>	
11:00	RANS and LES of Heat Transfer II	<i>Prof. K. Hanjalic</i>
12:00	Quantification and Control of Numerical Error I	<i>Prof. C. Hirsch</i>
13:00	<i>Lunch</i>	
14:00	Quantification and Control of Numerical Error II	<i>Prof. C. Hirsch</i>
15:00	<i>Refreshments</i>	
15:20	Improving CFD Practice in Industry	<i>Dr. W. Haase</i>
15:40	Question and Answer Session	<i>All Speakers</i>

End of Course