



Hotel



Announcement



# Symposium on Hybrid RANS-LES Methods

14–15 July 2005, FOI, Stockholm, SWEDEN

## Accommodation Information

Please make your hotel reservation before 10 June 2005

The symposium will take place in the Rica City Hotel Stockholm, which also serves as the official hotel for accommodation.

Hotel web site: <http://www.rica.se/>

Please make your hotel reservation directly through either of the following web pages (choosing Rical Hotel Stockholm or Rica Hotel Kungsgatan):

<http://www.rica.no/vis.cfm?hotell=68&avsnitt=1&spraak=2>

<http://www.rica.no/vis.cfm?hotell=67&avsnitt=1&spraak=2>

Please refer to the symposium booking number (FOI 050713) in your reservation. For the symposium participants and accompanys, the room price (incl. VAT) is:

Single room: 795 SEK (~ 90 Euro), Double room 1195 SEK (~ 135 Euro).

For **double room**, please in contact with **Comfort Hotel Stockholm**

Please refer to the symposium booking number (17474) in your reservation. For the symposium participants and accompanys, the room price (incl. VAT) is:

Double room 1101 SEK (~ 124 Euro) you can book via

phone +46 8 566 222 00, fax +46 8 566 224 44 or

e-mail: [stockholm@comfort.choicehotels.se](mailto:stockholm@comfort.choicehotels.se)

<http://www.choicehotels.se/html/page.jsp?inframe=1&propcode=SE030&catcode=NHPCAT&langcode=EN-GB>

For more information, please get contact with

**Mrs. Kerstin Gustafsson** (symposium secretary)

**Swedish Defence Research Agency, FOI**

**System Technology Division**

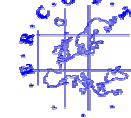
**SE-164 90 Stockholm, Sweden**

**Tel. : +46 8 5550 3152 Fax : +46 8 5550 3062**

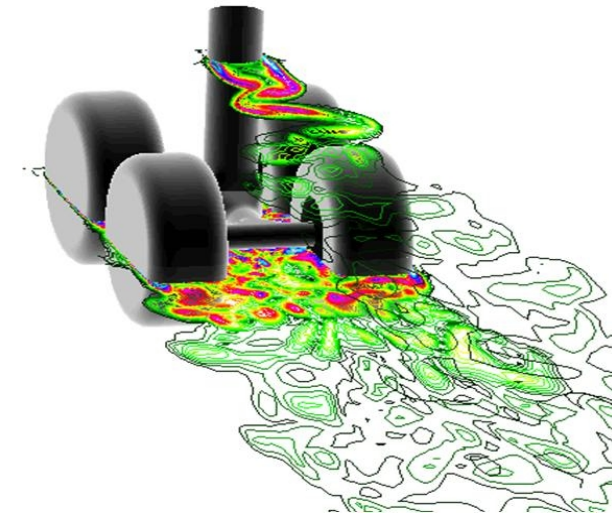
<mailto:hybrid.symposium@foi.se>

# Symposium on Hybrid RANS-LES Methods

Sponsored by



14–15 July 2005  
FOI, Stockholm, SWEDEN



The symposium is organised by the **DESider** project consortium.

DESider (Detached Eddy Simulation for Industrial Flows) is an R&D project, funded by the European Union under contract AST3-CT-2003-502842-DESIDER.

Internet: <http://cfd.me.umist.ac.uk/desider>



Symposium on  
Hybrid RANS-LES  
Methods



Symposium on  
Hybrid RANS-LES  
Methods



## General Objectives

Hybrid simulation methods, combining RANS and LES techniques, have received increasing attention over the past few years from the turbulence-research community, CFD code developer and industrial CFD engineers. In particular, the Detached Eddy Simulation (DES) method, first introduced in 1997, has acquired a predominant profile and has been the subject of much interest and study.

The fundamentals of DES and other RANS-LES combinations, as well as their applications to industrial flow problems, constitute the main focus of the EU project DESider. The present Symposium, which is closely associated with the DESider project, thus addresses the following general objective of the project: **To improve CFD-aided design procedures, flow control and analysis of turbulent unsteady aerodynamic flows by making DES and hybrid RANS-LES techniques available to the European aeronautic community.**

The aim of the Symposium is to provide a forum for researchers and industrial engineers to exchange their knowledge and experience, to discuss current problems and results and to present recent achievements in the development and applications of hybrid RANS-LES methods - including physical models and related numerical issues. It is expected that the Symposium will encourage an emergence of new ideas and inspire participants to pursue and intensify efforts towards future developments and applications of hybrid RANS-LES methods.

The symposium is open to university and academic researchers, graduate students, industrial engineers, industrial R&D managers and consultants with an active interest in the fields of turbulent-flow modelling, simulations and measurements and multidisciplinary CFD applications, such as flow control, aero-acoustics and aero-elasticity.

**The deadline for submitting abstracts is: 29 May 2005**

**The deadline for registration is (see 'Important Dates'): 1 July 2005**

The final programme and organisational information will be distributed in May 2005. Proceedings will be collected in a CD-ROM and distributed.

**During the symposium, an Exhibition of commercial CFD software will be held. For details, please get in contact with the symposium secretary.**

The 'Hybrid RANS-LES' symposium is part of the DESider mid-term review meeting and part of its dissemination and exploitation activities. The **DESider Consortium** is formed by EADS Deutschland GmbH Military Aircraft (co-ordinator), Alenia Aeronautica (Italy), ANSYS (CFX, Germany), Chalmers Univ. of Tech. (Sweden), Dassault Aviation (France), Deutsches Zentrum fuer Luft- und Raumfahrt (DLR, Germany), Eurocopter Germany, Electricite de France (EDF, France), Swedish Defence Research Agency (FOI, Sweden), Imperial College (UK), Institut Mechanique des Fluides de Toulouse (France), Centre National de la Recherche Scientifique (France), National Lucht-en Ruimtevaartlaboratorium (NLR, The Netherlands), New Technologies & Services (NTS, Russia), Numerical Mechanics Application International (NUMECA, Belgium), Office National d'Etudes et de Recherches Aerospatiales (ONERA, France), Technical Univ. Berlin (Germany), University Manchester Institute of Sci. & Tech. (UMIST, UK). The **Industrial Observers** are: Airbus (France), Volvo (Sweden), PSA Peugeot Citroen (France) and Bombardier (Germany).

## Main Topics

Unsteady RANS, LES *versus* DES  
Improved DES  
Hybrid URANS-LES  
Embedded LES  
DES-related numerical issues  
Industrial applications of DES  
Commercial CFD software exhibition

## Invited Speakers

S. Drobnik, Technical University of Czestochowa, Poland  
K. Hanjalić, Delft University of Technology, The Netherlands  
H. Rieger, EADS Military Aircraft, Germany  
P. R. Spalart, Boeing Company, USA

## Abstract Submission

Authors should submit an (extended) abstract of 1-3 pages and are encouraged to submit a full paper (max. 10 pages). In case a full paper will not be provided, the presentation should be made available in electronic form, e.g. as a Microsoft PowerPoint file.

## Important Dates

**29 May 2005**      **Deadline for abstract/paper submission**  
**10 June 2005**    **Abstract/paper acceptance**  
**1 July 2005**      **Deadline for registration (block booking valid only until 10 June)**  
**14-15 July 2005**   **Symposium**

## Organising Committee

B. Aupoix, ONERA, France  
L. Davidson, Chalmers University of Technology, Sweden  
W. Haase, **Chair** (DESider co-ordinator), EADS Military Aircraft, Germany  
Ch. Hirsch, NUMECA, Belgium  
D. Laurence, EDF, France, and UMIST, U.K.  
M. Leschziner, Imperial College, U.K.  
F. Menter, ANSYS, Germany  
S.-H. Peng, **Local organizer**, FOI, Sweden  
M. Strelets, NTS, Russia  
F. Thiele, TUB, Germany  
S. Wallin, **Local organizer**, FOI, Sweden