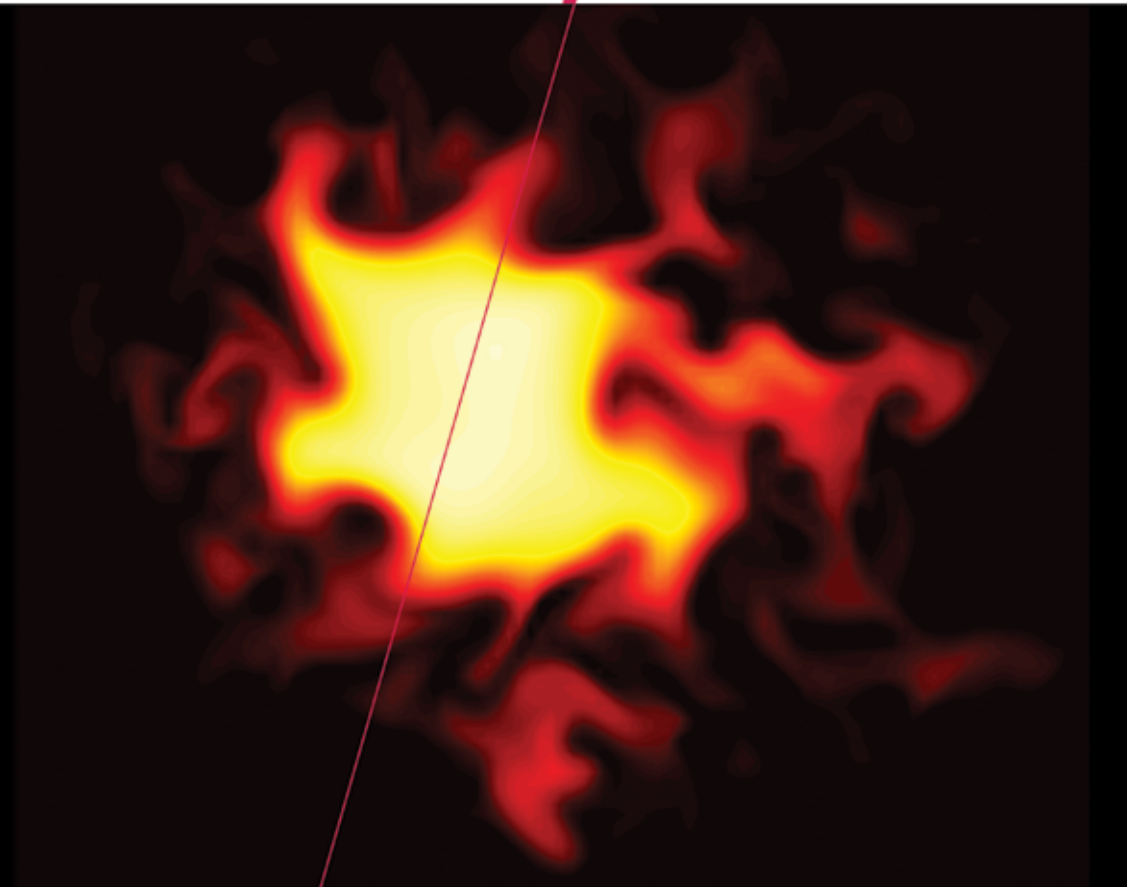


### Venue

Castle Vaeshartelt ([www.vaeshartelt.nl](http://www.vaeshartelt.nl)) is a 17th century castle originally owned by King William II. It is situated in a beautiful 7 hectare English-style park. The castle is located near the city of Maastricht in the south of the Netherlands.



[www.tue.nl/dnsles2008](http://www.tue.nl/dnsles2008)



### Organization

The symposium is organized by the Combustion Technology group at the Eindhoven University of Technology (TU/e) ([www.combustion.tue.nl](http://www.combustion.tue.nl)).

#### Local Organizing Committee

- Rob Bastiaans (Treasurer)
- Marjan Dijk (Secretary)
- Philip de Goey (Chairman)
- Jeroen van Oijen
- Bart Somers

#### Scientific Advisory Committee

- Christian Angelberger
- Stewart Cant
- Bernard Geurts
- Bart Merci
- Dirk Roekaerts
- Dominique Thevenin
- Ananias Tomboulides
- Luc Vervisch

#### Invited Lectures

- Christian Angelberger
- Stewart Cant
- Jacqueline Chen
- Dan Haworth
- Stephen Pope
- Luc Vervisch

October 22-24, 2008,  
Technische Universiteit  
Eindhoven  
The Netherlands



# DNS and LES of Reacting Flows

Call for Papers  
Abstracts deadline 1 March 2008

Where innovation starts

# Conference Aim and Scope

Computational fluid dynamics (CFD) becomes increasingly more important in the design process of modern systems involving reacting flows. Design and optimization of for instance industrial combustion devices is intensely guided by numerical simulation nowadays. The complexity of the processes occurring in such systems demands for accurate models and advanced numerical methods. Direct numerical simulation (DNS) and large eddy simulation (LES) are very powerful high-fidelity CFD tools that have the potential to meet these demands.

The EC COST action LES-AID and the ERCOTAC special interest group 28 "Combustion" are co-organizing a conference on DNS and LES of Reacting Flows. This conference will report on the progress in DNS and LES of reacting flows and it will be hosted by Technische Universiteit Eindhoven, The Netherlands, on October 22-24, 2008.

The objective of this meeting is to bring people together to discuss and exchange ideas on recent developments in the field of DNS and LES of reacting flows and their application to real-world devices. Invited lectures given by experts in the field will initiate discussions and participants will have the opportunity to present their work in contributed papers.

## Conference topics

The topics of the conference include fundamental modelling issues and the application of DNS/LES in design and optimization studies of technological applications (e.g. gas turbine combustors and internal combustion engines). The following points will be addressed:

- sub-grid scale combustion modelling
- sub-grid scale turbulence modelling
- chemical reduction methods for DNS/LES
- numerical methods for DNS/LES of reactive flows
- error assessment for DNS/LES of reactive flows
- computational tools for DNS/LES
- LES of industrial combustion applications
- fundamental DNS and LES combustion studies

## Important Dates

### Papers

- 1 March: Submission of 2 page abstracts  
 1 April: Acceptance of abstracts  
 1 May: Submission of full paper.  
 1 July: Comments of reviewers  
 15 September: Submission of final paper

### Registration

- 1 July: Early-bird registration  
 15 September: Final registration

## Tentative Programme Schedule

### Wednesday 22 October

Time	Title	Speaker
12.00	Welcome and lunch	
13.30-14.15	Fundamental DNS/LES	Invited
25 min Talks		Accepted
15 min	Break	
25 min Talks		Accepted
15 min	Break	
17.15-18.00	Applied DNS/LES	Invited

### Thursday 23 October

Time	Title	Speaker
9.00-9.45	Fundamental DNS/LES	Invited
25 min Talks		Accepted
30 min	Break	
25 min Talks		Accepted
	Lunch	
25 min Talks		Accepted
30 min	Break	
25 min Talks		Accepted
15 min	Break	
17.15-18.00	Applied DNS/LES	Invited
	Diner	

### Friday 24 October

Time	Title	Speaker
8.30-9.15	Fundamental DNS/LES	Invited
25 min Talks		Accepted
15 min	Break	
25 min Talks		Accepted
15 min	Break	
12.15-13.00	Applied DNS/LES	Invited

### Closing discussion and lunch

## Submission of Abstracts

For submission instructions see the website [www.tue.nl/dnsles2008](http://www.tue.nl/dnsles2008). The abstracts will be selected by the scientific advisory board. The papers will be reviewed by internationally recognized experts. The accepted papers will be published in a special issue of Flow, Turbulence and Combustion. (<http://www.springerlink.com/content/100237/>). At the symposium a book of abstracts and electronic versions of the full papers will be provided.

## Registration

The symposium fee will be 350,- euro and does not cover the overnight stay. 50 rooms are held in option at the symposium venue till the early-bird registration. After the early-bird registration deadline the availability cannot be guaranteed. For more information see the website [www.tue.nl/dnsles2008](http://www.tue.nl/dnsles2008).