



ERCOFTAC Autumn Festival 2007

**Belgian Royal Academy, Brussels,
29th-31st October**

INDUSTRY DAY, 29th October

The European Research Community on Flow, Turbulence and Combustion (ERCOFTAC) continuously strives to strengthen and deepen co-operation and collaboration between the industrial and the European research and science communities. It aims to improve awareness and common understanding of both needs and opportunities, and in so doing, foster the generation and transfer of knowledge and enabling technologies into industry. In order to better fulfil this role ERCOFTAC holds a series of Annual Autumn Festivals, the first day of which is specifically devoted to industrial engagement. The theme for the 2007 'Industry Day' is:

'Modelling and Simulation : Significant Achievements and Hard Lessons'

It will be dedicated to the current state-of-the-art in industrial practice, emerging technologies and, most importantly, the harnessing of capability to meet industrial needs and aspirations. The programme will comprise a number of key-note lectures and presentations from highly experienced, leading figures drawn from the industrial and scientific/academic communities. The industrial lectures cover a broad variety of sectors which include;

Aerospace

Dr. Klaus Becker, Airbus SA and Dr. David Standingford, BAESYSTEMS

Motor Sport

Dr. Luciano Mariella, Ferrari Formula-1

Process and Safety Engineering

Dr. Chris Lea, Lea Associates

Nuclear Power Generation

Prof. Dominique Laurence, Electricite de France and Manchester University

Turbo Machinery

Dr. Dirk Nurnberger, Institute of Propulsion Technology, DLR, Koln

Prof. Charles Hirsch, NUMECA International, Belgium

These lectures will set the scene for an open discussion which will be facilitated by an expert panel. The aim is to identify those key challenges in modelling and simulation, both across sectors as well as specific to individual sectors, that must be surmounted in order to realise current ambitions for engineering design and validation. The most promising technical pathways for meeting these challenges will also be debated. The outcome will inform the formulation of future ERCOFTAC policy and action.