



Spin-off from the VUB's Fluid Mechanics research group.

Established in 1992.

### Milestones

- **1993:** NUMECA International was founded by Professor Charles Hirsch, as a spin-off of the Fluid Mechanic Department of the VUB.
- Since then, NUMECA International emerged as one of the three main worldwide developers and vendors of advanced CFD systems.
- **2000:** NUMECA received the 'Grote Prijs Ondernemen 2000', awarded by the Belgian Chamber of Commerce and Industry.
- Today, NUMECA has a worldwide presence with branch offices in USA, Japan, China, Hong Kong, India, Belgium and distributors in Germany, Spain, Italy, Korea, Indonesia... .

### NUMECA International NV

Terhulpesteenweg, 189  
1170 Brussels | Belgium

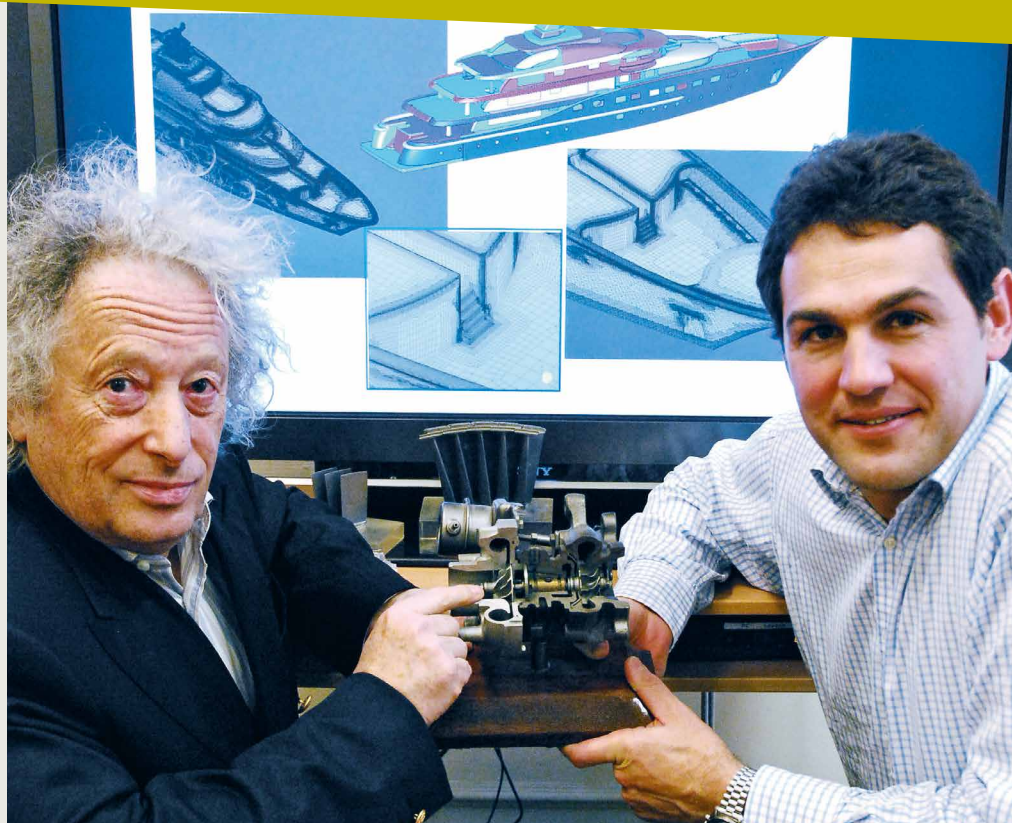
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Charles Hirsch and Marc Tombroff

### The Next Generation in CFD Software

NUMECA International NV was founded in 1992, a result of successful research in the field of Computational Fluid Dynamics (CFD) within the department of Fluid Mechanics at the VUB, then headed by Prof. Dr. Charles Hirsch. NUMECA's product strategy is based on the **development of automated, integrated and customized software systems for optimal and rapid simulation, design and optimization.** This fast-growing, university spin-off is a worldwide player in industrial software for the **fluid simulations sector.**

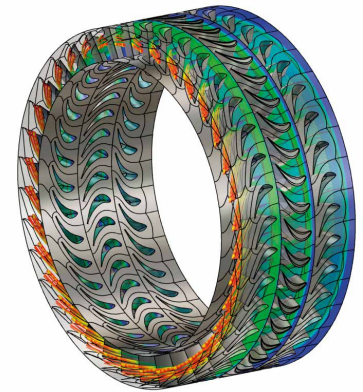
NUMECA International now has branches and agents in Belgium, Germany, Spain, Italy, India, Korea, Japan, China and the US. In 2000, NUMECA received the 'Grote Prijs Ondernemen 2000', awarded by the Belgian Chamber of Commerce and Industry for its contribution to the economic and social development of the Brussels Region.

Today, NUMECA's R&D team is a **world-renowned center of excellence** comprising highly skilled engineers and Doctors in Computer Science, Mathematics, Physics and Fluid Dynamics from more than 20 countries.

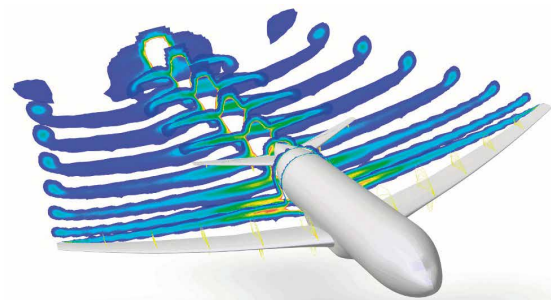
NUMECA International's software is used across a wide range of applications including:

- Simulation of multiphase flows and combustion systems
- Design of components for the engines of the Ariane 4 and 5 rockets
- Design of aircraft engines
- Simulation of wind turbines and hydroplaning in tires
- Visualization of wing tip turbulence of aircraft
- Hydrodynamic of ships and sailing boats

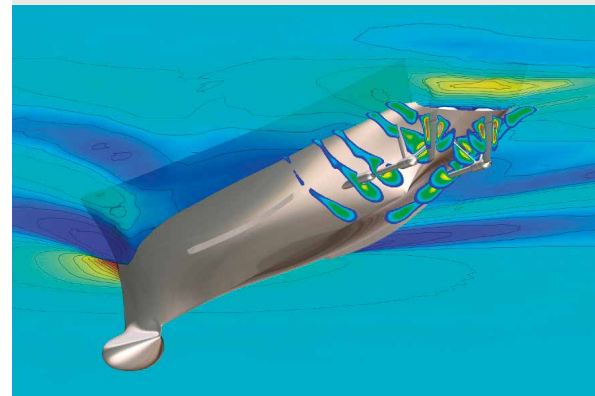
With the establishment of a **global network for scientific collaboration**, NUMECA International has access to the most recent advances and developments in the area of Computational Fluid Dynamics. From the outset, NUMECA has taken part in several EU research projects. Thanks to this collaboration between the academic and scientific world, the company stays abreast of the latest technologies and can offer innovative and creative programs in all sectors of digital flow simulation.



FINE™/Open with OpenLabs: Particle flow in turbine



FINE™/Open with OpenLabs: External aerodynamics of aircraft



FINE™/Marine: Appended DTMB 5415 ship with wave elevation

**'NUMECA is recognized today as the most innovative company in its field of expertise. This is largely due to its university background and the creative spirit of the Vrije Universiteit Brussel, which it inherited.'**

**Prof. Charles Hirsch,  
President of NUMECA International**



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