

## **Biographical Sketch -**

Arnaud Trouvé is Associate Professor in the Department of Fire Protection Engineering at the University of Maryland at College Park. Arnaud's primary research focus and experience is in the field of multi-dimensional numerical modeling for turbulent combustion applications. While a post-doctoral researcher at the Center for Turbulence Research at Stanford University (1990-93), he had a unique opportunity to participate in the early developments of direct numerical simulation (DNS) applied to turbulent combustion, and contributed to establish DNS as a tool for basic knowledge, as well as a tool for the development and validation of physical sub-models used in coarse-grain engineering-level approaches (*i.e.* large eddy simulation – LES – or Reynolds-averaged Navier-Stokes approaches). Until 1999, he was a senior research engineer at the French Petroleum Institute (IFP is a major European applied research center in the area of oil and energy) and a project leader responsible for the IFP basic research program on IC engines combustion. Now at the University of Maryland, Arnaud is active in different application areas of Computational Fluid Dynamics, including High-Performance (parallel) Scientific Computing, DNS and LES, and different application areas of combustion, including fire and explosion safety, IC engines and gas-turbine engines. He currently holds a joint appointment at the Building and Fire Research Laboratory of the National Institute of Standards and Technology, MD.