



Liquid combustion workshop

13. – 16. February 2012

Brno, Czech Republic, venue: Hotel Continental, Brno

Workshop was organized by department of Thermodynamics of the Energy Institute, BUT, Czech Republic in the frame of 7thFP, Project LIMOUSINE

Monday 13th:

Presentations of Limousine participants:

Fatigue and heat transfer.

Active control and nonlinear studies.

Tuesday 14th:

Presentations of Limousine participants:

Experimental acoustics and combustion dynamics.

Numerical acoustics, aerodynamic coupling and combustion transients.

Analytical acoustics.

Wednesday 15th:

Graham Wigley - The department of Aeronautical and Automotive Engineering, Loughborough University, UK

The laser diagnostics techniques – theory lecture in the morning. Theoretical background to the spray diagnostics was given.

Jan Jedelský, Lukáš Ďurdina - The department of Thermodynamics of the Energy institute, BUT, Czech Republic

Experimental life – afternoon in the lab. How is theory reflected in the lab. How the spray and the laser measurements really looks like. Practical show with laser systems PIV & PDPA.

Thursday 16th:

Olivier Simonin – Laboratoire de Mecanique des Fluides de Toulouse, France

Liquid Atomisation and spray combustion modelling – The Computational Fluid Dynamics is established method which is still challenged by the multiphase combustion modelling. The overview of the latest development in the field was given. Lagrangian as well as Eulerian approach was discussed.

Large Eddy simulation in spray modelling – Models and development in the field of LES turbulence model multiphase flows.

The workshop started at 9am every day and ran till 5pm.

<http://ottp.fme.vutbr.cz/limousine>

