

Symposium
Experiments in Fluid Mechanics - EFM 2013”
14-15 OCTOBER 2013

Location: Institute of Aeronautics and Applied Mechanics
Room 6, Nowowiejska 24, Warsaw

AGENDA

14.10.2013 Monday

- 10.00-11.00 Early Coffee break
11.00-11.15 Opening
11.15-12.00 Prof. Pavel Šafařík *Application of Classical Optical Methods in Measurements of Compressible Fluid Flows*, Academy of Sciences of the Czech Republic, The Institute of Thermomechanics
12.00-13.20 **Droplet Dynamics**
1. J. Guzowski *Generation and stability of droplets with internal structure*, Instytut Chemii Fizycznej PAN
2. T. Bobiński, G. Sobieraj, K. Gumowski, J. Rokicki *Influence of Surface Micro-structure on bouncing droplet*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW
3. M. Remer *Droplet impact on the frozen surface*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW
4. P. Korczyk *Experiments in droplet microfluidics*, IPPT PAN
13.20-14.50 Lunch
14.50-15.35 Prof. François Lusseyran *Coherent structures identification inside self-organized and pulsating 3D flow*, The Computer Science Laboratory for Mechanics (LIMSI CNRS)
15.35-16.55 **Low Reynolds and Flow Bifurcations**
5. Ł. Klotz *Jet in a crossflow*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW
6. J. Pryško, S. Goujon-Durand, E. Wesfreid *DDPIV system for investigation of low Reynolds number flows in water channel*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW, Laboratoire de Physique et Mécanique des Milieux Hétérogènes, ESPCI
7. M. Ekiel-Jeżewska *Hydrodynamic clustering of micro-objects under gravity*, IPPT PAN
8. M. Morzyński, W. Stankiewicz, K. Kotecki, R. Roszak, M. Nowak, W. Szeliga *Modal analysis and Reduced Order Models for experimental and/or numerical data* Department of Virtual Engineering, Poznan University of Technology
16.55-17.20 Coffee break
17.20-18.05 Prof. José Eduardo Wesfreid, *Experimental study of turbulents spots in channel flows* Laboratoire de Physique et Mécanique des Milieux Hétérogènes, ESPCI
20.00 Experimental Dinner

15.10.2013 Tuesday

- 9.00-9.45 Prof. Václav Uruba *Analysis of spatio-temporal velocity data from PIV measurements*, Academy of Sciences of the Czech Republic, The Institute of Thermomechanics
9.45-10.00 Coffee break

- 10.00-12.00 **Separation and Turbulence**
8. A. Drózdź *Detection of bursts in a turbulent boundary layer with pressure gradient*, Instytut Maszyn Ciepłych, PCz.
9. K. Gumowski *Active control of turbulent separation by air vortex generators*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW
10. A. Pawłowska, M. Wysocki *Hot - wire study on the influence of nozzle shape upon the evolution of shear layer and velocity field in axisymmetric free jet*, Instytut Maszyn Ciepłych, PCz.
11. R. Szwaba *Transient Liquid Crystal (TLC) method for the measurements of flow structure and heat transfer*, IMP PAN.
12. P. Kaczyński *Implementation of TLC method for the investigation of flow and heat transfer in internal cooling channels of gas turbine blades*, IMP PAN.
13. B. Olszański, K. Kubryński *Experimental validation of a divergent trailing edge concept for a low Reynolds number airfoil*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW
- 12.00-12.45 Dr Karl Janssens *Aero-acoustic measurements and sound source localization in wind tunnels*, LMS International RTD Department
- 12.45-14.00 Lunch
- 14.00-15.20 **Flow in Porous Media, Microflows**
14. P. Niegodajew, M. Wilczyński *Experimental study of liquid holdup and liquid redistribution in porous zone*, Instytut Maszyn Ciepłych, PCz.
15. W. Regulski, K. Gumowski *Investigation of hydrodynamic properties of ceramic foams – experimental and numerical study*, Instytut Techniki Lotniczej i Mechaniki Stosowanej, PW
16. P. Nakielski *Experimental analysis of drug release process from nanofibrous mats*, IPPT PAN.
17. J. Nowakowski, A. Myłyk-Kramarska, M. Ekiel-Jeżewska *Hydrodynamic interactions between heavy axisymmetric particles and flat vertical wall*, IPPT PAN
- 15.20-15.50 K. Bajer *European High-Performance Infrastructures in Turbulence (EuHIT) - an opportunity for experimental work in European laboratories*, Instytut Geofizyki UW
- 16.15-17.00 Meeting of the Subcommittee of Fluid Mechanics of Polish Academy of Science (Room 110) held in polish

The Symposium is Organized by:

- Committee of Mechanics, Polish Academy of Sciences
- University Centre for Aeronautics and Astronautics, Warsaw University of Technology
- Institute of Aeronautics and Applied Mechanics, Warsaw University of Technology
- The Szewalski Institute of Fluid-Flow Machinery Polish Academy of Sciences, Gdansk (projects STADYWICO and IMESCON)
- Institute of Fundamental Technological Research, Polish Academy of Sciences, Warsaw
- Polish Pilot ERCOFTAC Centre, Warsaw University of Technology

Organisers:

Prof. Stanisław Drobniak, Prof. Piotr Doerffer, Prof. Tomasz Kowalewski,
Prof. Jacek Rokicki (Chairman), Prof. Andrzej Styczek