

SEKCJA MECHANIKI PŁYNÓW KOMITETU MECHANIKI PAN

zaprasza na

Program of Polish - French workshop "Some topics on vortex dynamics ",
Wrocław University of Technology, Faculty of Mechanical and Power Engineering,
Institute of Aircraft and Process Engineering and Power Engineering Machinery
November, 28-29, 2007, Wrocław
Room 261, building A4, Wybrzeże Wyspiańskiego 27

Organizers:

prof. Henryk Kudela *Wrocław University of Technology (Poland), Chairman of Subsection of Computational Fluid Dynamics in PAS Section of Fluid Mechanics*
prof. Jacek Rokicki *Warsaw University of Technology (Poland), Division of Aerodynamic*
prof. Piotr Doerffer *Robert Szewalski Institute of Fluid-Flow Machinery, Gdansk (Poland),
Chairman of Subsection of Compressible Flows in PAS Section of Fluid Mechanics*
prof. Marek Morzyński *Poznan University of Technology*
prof. Tomasz Kowalewski *Institute of Fundamental Technological Research, Polish Academy of Sciences,
Chairman of Section of Fluid Mechanics in PAS Committee on Mechanics*

Wednesday, 28-th of November, 2007

11:00-12:00 reception
12:00-12:45 M. Rossi, *CNRS Institut Jean Le Rond d'Alembert University of Paris VI* "Swirling jet instability"
13:00-13:45 I. Delbende, *LIMSI-CNRS University of Paris VI* "Towards a simple model for vortex reconnection"
13:45-14:45 Lunch
14:45-15:30 Jacek Szumbariski, *Warsaw University of Technology, Division of Aerodynamics*, "Low-Reynolds-number instability of a laminar flow in a wavy channel".
15:30-16:00 Henryk Kudela, Ziemowit Malecha, *Wrocław University of Technology, Department of Numerical Modeling of Fluid Flow* "Some numerical tests on vortex particle method. Bursting phenomena of boundary layer."
16:00 -16:15 Coffee break
16:15 -16:45 Paweł Flaszynski, *Robert Szewalski Institute of Fluid-Flow Machinery, Gdańsk (Poland)*
"Experimental and numerical analysis of streamwise vortex generator"
16:45-17:15 Jan Miedzik, *Warsaw University of Technology, Division of Aerodynamics*, "The origin of the hairpin instability in the wake of the sphere - second transition"
18:30 Workshop Dinner

Thursday, 29-th of November, 2007

10:00 –13:45 Spotkanie Sekcji Mechaniki Płynów KM PAN - Meeting of Fluid Mechanics Section of Polish Academy of Sciences

10:00 – 10:30 M. Rossi, *CNRS Institut Jean Le Rond d'Alembert University of Paris VI* " Various mechanisms of production of vorticity and vortices"
10:30 - 11:00 Paweł Regucki, P. Wr., "Simulation of vortex reconnection phenomena by vortex particle method"
11:00 – 11:30 Jan Dziuban, P. Wr. Pracownia Mikroinżynierii i Mikromechaniki WEMiF, "Zintegrowane chipy mikrofluidyczne; od mikrozaworów i mikropomp do lab-chipów analitycznych i bio-medycznych"
11:30 - 11:45 Coffee Break
11:45 - 13:45 Sprawy organizacyjne Sekcji Mechaniki Płynów Komitetu Mechaniki PAN