

WORKSHOP "LES IN SCIENCE AND TECHNOLOGY"
&
MEETING OF FLUID MECHANICS SECTION of Polish Academy of Sciences

Organized in the frame of COST ACTION P20 (LES-AID)

POZNAN UNIVERSITY OF TECHNOLOGY
Lecturing Centre of Poznan University of Technology
ul. Piotrowo 3A, room 219

21 - 22.04.2008

Organizers:

Prof. E. TULISZKA-SZMITKO (ewa.tuliszka-szmitko@put.poznan.pl)

Poznan University of Technology

Prof. B. GEURTS

Technische Universiteit Twente

Prof. A. BOGUSŁAWSKI

Czestochowa University of Technology

Prof. J. ROKICKI

Warsaw University of Technology

Information about registration and hotels:

<http://les.put.poznan.pl/>

PROGRAM-OUTLINE:

21.04.2008 MONDAY

Chairman: Prof. Bernard Geurts

11.00-11.45	M. LESCHZINER	Simulating flow separation from continuous surfaces at high Reynolds numbers: Addressing the wall-resolution problem
11.45-12.30	N. ADAMS	Implicit LES: Theory and Application
12.30-13.00	S. MENDEZ, F. NICAUD	Wall modeling of perforated plates from LES analysis
13.00-13.20	M. JASZCZUR M. GARGNELUTTI	LES of particle-laden turbulent horizontal channel flow
13.20-13.40	D. FAUCONNIER, C. DE LANGHE, E. DICK	A Low-Dispersive Dynamic Finite Difference Scheme for Large Eddy Simulation

13.40-14.40 LUNCH

Chairman: Prof. Michael Leschziner

14.40-15.25	H. KUERTEN	LES of particle-laden flow
15.25-16.10	W. RODI	LES of flow around groups of finite-height cylinders

16:10-16:30 Coffee Break

Chairman: Prof. Klaus Adams

16.30-17.00	F. ROMAN, V. STOCCA, V. ARMENIO	LES of some environmental flows
17.00-17.30	B.J. GEURTS	Pseudo-spectral tests of regularized homogeneous turbulence

19.00 DINER – MERCURE Hotel

22.04.2008 TUESDAY

Chairman: **Prof. W. Rodi**

09.00-09.45	L. VERVISCH	Chemistry and Large-Eddy Simulation of turbulent flames
09.45-10.05	A. BOGUSŁAWSKI, A. TYLISZCZAK, S. DROBNIAK	LES modeling of coherent structures in the round isothermal and heated jets.
10.05-10.25	J. SZUMBARSKI, S. BŁOŃSKI	Low-Reynolds-number instability of laminar flow in the wavy channel
10.25-10.45	K. SOBCZAK	Large Eddy Simulations of the turbulent pulsating gas flow in pipes

10.45.11.5 Coffee Brea

Chairman: **Dr. Hans Kuerten**

11.05-11.50	S. VIAZZO, E. SERRE, P. BONTOUX	About different LES approaches for various complex flows
11.50-12.10	E. TULISZKA- SZNITKO, A. ZIELINSKI, W. MAJCHROWSKI	LES of the flow in rotating cavity
12.10-12.30	J. ASK, L. DAVIDSON	The use of LES for acoustic source predictions for ground vehicles

12.30-13.30 LUNCH

Chairman: **Prof. Luc Vervisch**

13.30-14.15	J. MEYERS	Non-linear error dynamics in large-eddy simulations: an overview
14.15-14.35	J. POZORSKI, M. LUNIEWSKI	Numerical aspects of modelling near-wall particle dispersion in LES of channel flow
14.35-14.55	F. XAVIER TRIAS, ROEL VERSTAPPEN, MANEL SORIA, ASSENSI OLIVA	Symmetry-preserving regularization modelling of a turbulent differentially heated cavity
14.55-15.15	A. CHERNYSHOV, K. V. KARELSKY, A. S. PETROSYAN	Large-eddy Simulation of Compressible MHD Turbulence in Space and Astrophysical Plasma

Closing Discussion

15.30-17.00

MEETING OF FLUID MECHANICS SECTION of Polish Academy of Sciences

Chairman: **Prof. Tomasz Kowalewski**

Wszyscy członkowie SMP jak i ich doktoranci są zaproszeni na dwudniowe wykłady prowadzone w ramach workshopu "LES in Science and Technology".

Udział w wykładach jak i tradycyjna kawa i herbata między wykładami **są wolne od opłat**. Ze względów organizacyjnych wszyscy chętni do wzięcia udziału w Workshopie proszeni są o rejestracje.

Osoby, które chcą wziąć udział w obiedzie zorganizowanymw poniedziałek w Hotelu Merkury o godz 19.00 proszone są o opłacenie zredukowanego fee w wysokości 110zł.