

## Day 1: Wednesday 24 October 2007

8.00 – 9.00h	Registration and coffee
9.00 – 9.10h	Welcome
9.10 – 10.00h	Invited presentation: <i>William J. Layton (University of Pittsburgh, USA), “The connection between mathematical architecture and physical fidelity in deconvolution LES models”</i>
10.00 – 10.50h	Session 1: Numerical and mathematical analysis of subgrid-scale-model and discretization errors (I)  Marta de la Llave Plata and Stewart Cant, <i>On the application of wavelets to LES subgrid modeling</i>  S. Hickel and N.A. Adams, <i>Analysis of diffusive truncation errors and design of physically optimized discretization schemes</i>
10.50 – 11.15h	Coffee
11.15 – 12.30h	Session 2: Numerical and mathematical analysis of subgrid-scale-model and discretization errors (II)  R. Coale, L. Bricteux, and G. Winckelmans, <i>Spectral behavior of various subgrid-scale models in LES at very high Reynolds number</i>  Luiz E. Sampaio, Angela O. Nieckele, and Margot Gerritsen, <i>Performance assessment of a new advective subgrid model through two classic benchmark test cases</i>  Christophe Bogey and Christophe Bailly, <i>Assessment of dissipation in LES based on explicit filtering from the computation of kinetic energy budget</i>
12.30 – 13.45h	Lunch

- 13.45 – 14.35h      Invited presentation  
*Johan Hoffman (KTH, Sweden), “Adaptive computation of mean values in turbulent flows”*
- 14.35 – 15.50h      Session 3: Numerical and mathematical analysis of subgrid-scale-model and discretization errors (III)  
  
Andreas Hauser and Gabriel Wittum, *Analysis of uniform and adaptive LES in natural convection flow*  
  
Joseph Mathew, *Error estimation in the explicit filtering method for LES*  
  
Y. Addad, U. Gaitonde, and D. Laurence, *Optimal unstructured meshing for large eddy simulations*
- 15.50 – 16.20h      Coffee
- 16.20 – 17.35h      Session 4: Computational error-assessment (I)  
  
Michael Kornhaas, Dörte C. Sternel, and Michael Schäfer, *Influence of time step size and convergence criteria on large eddy simulations with implicit time discretization*  
  
Markus Klein, Johan Meyers, Bernard J. Geurts, and Johannes Janicka, *Assessment of LES quality measures using the error landscape approach*  
  
Julien Berland, Christophe Bogey, and Christophe Bailly, *Analysis of numerical error reduction in explicitly filtered LES using two-point turbulence closure*
- 18.00h                Reception at the City Hall

## Day 2: Thursday 25 October 2007

- 9.00 – 9.50h            Invited presentation  
*Florian Menter (ANSYS, Germany), “Status of scale-resolving models in industrial CFD”*
- 9.50 – 11.05h            Session 5: Modeling and error-assessment of near-wall flows (I)  
Philippe Spalart, Mikhail Strelets, and Andrey Travin, *Expectations in the wall region of a large-eddy simulation*  
Aaron M. Botnick and Evgeni Fedorovich, *Large eddy simulation of atmospheric convective boundary layer with realistic environmental forcings*  
S. J. Hulshoff, I. Akkerman, and E. A. Munts, *Modelling of near-wall flows in variational multiscale LES*
- 11.05 – 11.30h            Coffee
- 11.30 – 12.45h            Session 6: Modeling and error-assessment of near-wall flows (II)  
/ Numerical and mathematical analysis of subgrid-scale-model and discretization errors (IV)  
Mathieu J.B.M. Pourquie, *Accuracy close to the wall for large-eddy simulations of flow around obstacles using immersed boundary methods*  
Andrea Arovitola and Filippo Maria Denaro, *On the control of the continuity error in the approximate projection methods for large eddy simulations of turbulent channel flows*  
I. Akkerman, Y. Bazilevs, S.J. Hulshoff, V.M. Calo, and T.J.R. Hughes, *The role of continuity in residual-based multiscale modeling of turbulence*
- 12.45 – 14.00h            Lunch

- 14.00 – 14.50h      Invited presentation  
*Luc Vervisch (INSA Rouen, France), “Reliability of large-eddy simulations of turbulent flames”*
- 14.50 – 16.05h      Session 7: Error assessment in complex applications (I)  
Artur Tyliszczak, Andrzej Boguslawski, and Stanislaw Drobnik, *Quality of LES predictions of isothermal and hot round jet*  
Simon L. Axelsen and Han van Dop, *Katabatic flow; a large-eddy simulation challenge*  
Zheng-Tong Xie and Ian P. Castro, *LES for street-scale environment and its prospects*
- 16.05 – 16.30h      Coffee
- 16.30 – 18.10h      Session 8: Error assessment in complex applications (II)  
Manuel Lombardini, Ralf Deiterding, and Dale I. Pullin, *Large-eddy simulation of the Richtmyer-Meshkov instability in a converging geometry*  
Sebastian B. Müller and Leonhard Kleiser, *Quality assessment in LES of a compressible swirling mixing layer*  
A.W. Vreman, R.J.M. Bastiaans, and B.J. Geurts, *Accuracy of large-eddy simulation of turbulent combustion*  
Guillaume Boudier, Gabriel Staffelbach, Laurent Gicquel, and Thierry Poinso, *Mesh dependency of turbulent reacting large-eddy simulations in a gas turbine combustion chamber*
- 19.30h                  Conference dinner at the ‘Salons Georges’

### Day 3: Friday 26 October 2007

- 9.00 – 9.50h            Invited presentation  
**Christer Fureby & Rickard Bensow** (*Chalmers, Sweden*), “*LES at work: quality management in practical LES*”
- 9.50 – 10.40h            Session 9: Error assessment in complex applications (III)  
                                 – particle laden flow  
  
Jacek Pozorski and Mirosław Łuniewski, Marta Waclawczyk, *Analysis of sgs particle dispersion models in LES of channel flow*  
  
Marek Jaszczur and Luis M. Portela, *Numerical Data for Reliability of LES for Non-isothermal Multiphase Turbulent Channel Flow*
- 10.40 – 11.05h            Coffee
- 11.05 – 12.20h            Session 10: Computational error-assessment (II)  
  
Andrew Mosedale and Dimitris Drikakis, *Sensitivity to initial conditions of high-resolution and high-order LES schemes*  
  
Ghader Ghorbaniasl and Chris Lacor, *Study of the effect of grid irregularity on the quality of LES simulations*  
  
Péter Tóth and Máté M. Lohász, *Anisotropical grid refinement study using index of resolution quality for LES*
- 12.20 – 13.30h            Lunch
- 13.30 – 14.20h            Session 11: Error assessment in complex applications (IV)  
                                 – particle laden flow  
  
Maria-Vittoria Salvetti, Cristian Marchioli, and Alfredo Soldati, *Lagrangian tracking of heavy particles in large-eddy simulation of turbulent channel flow*  
  
J.G.M. Kuerten, *Large-eddy simulation of particle-laden channel flow*
- 14.20 – 15.10h            QLES Closing Session – Invited presentation  
**Paul Mason** (*University of Reading, UK*), “*Grids, filters, surface matching and subgrid models in LES of the planetary boundary layer*”