



Novosibirsk State University (Lead Scientist Grant)  
and Institute of Thermophysics SB RAS



Short Course / Workshop, 25-29 June 2012, IT SB RAS, Ak. Lavrentiev avenue 1, Novosibirsk.

# *T-FlowS*

## Computational Code for Turbulent Flows and Transport Processes

**T-FlowS** is an open-source unstructured finite-volume computational code (in FORTRAN) for Direct- and Large-eddy simulations and RANS, suited for researching complex turbulent flows and transport processes

**Features:** Unstructured (cell-centered) grid, arbitrary cell shapes; 2nd-order accuracy; Solvers: CG, CGS, BICG; Basic and advanced RANS models, conventional and dynamic subgrid-scale models for LES; Hybrid RANS/LES methods; Advanced treatment of wall boundary conditions (WIN, GWF and BWT); Conjugate heat transfer; Grid generation;

### Course Programme:

- Numerical rationale, structure, features and potential of T-FlowS
- User Manual: instructions, demonstration and hands-on exercises

### Presenters:

- Prof. K. Hanjalic, TU Delft, NL / Lead Scientists, NSU
- Dr. D. Borello, Sapienza University of Rome, Italy
- Dr. M. Hadziabdic, International University of Sarajevo, BH

### Who should attend:

MSc/PhD students, postdocs and all others interested in research-oriented simulation and modelling of turbulent flows and transport processes

Inquiries and registration: D. Sikovsky, [dphs@itp.nsc.ru](mailto:dphs@itp.nsc.ru)