

AGENDA OF THE FALL 2002 SCOPES PROJECT MEETING

Location: ETH Zentrum RZ F21, Sept 30 – Oct 1, 2002

MONDAY, SEPTEMBER 30

9:00-12:30 SCOPES Meeting (Part 1)

- Presentation of progress reports

14:00-18:00 Workshop on Computational Science and Engineering (Part 1)

- 14:00-14:25 Prof Svetozar Margenov (Central Laboratory for Parallel Processing, BAS):
Optimal multilevel preconditioners with respect to both problem and discretization parameters
- 14:30-14:55 Oscar Chinellato (Institute of Scientific Computing, ETHZ):
Accurate computation of FE matrices with axisymmetric domains
- 15:00-15:25 Prof Evgenija D. Popova (Institute of Mathematics and Informatics, BAS):
Solving linear parametric problems involving uncertainties
- 15:30-15:55 Prof Svetoslav Markov (Institute of Mathematics and Informatics, BAS):
"Numerical" computations with certain nonnumeric objects
- 16:00-16:30 Coffee break
- 16:30-16:55 Prof Kai Nagel (Institute of Scientific Computing, ETHZ):
Large Agent-Based Traffic Simulation
- 17:00-17:25 Dr Steffen Stolz (Institute of Fluid Dynamics, ETHZ):
Numerical simulation of turbulent flows
- 17:30-17:55 Olivier Fuhrer (Institute for Atmospheric and Climate Science, ETHZ):
Towards high-resolution numerical weather prediction

TUESDAY, OCTOBER 1

9:00-12:30 Workshop on Computational Science and Engineering (Part 2)

- 9:00- 9:25 Prof Walter Gander (Institute of Scientific Computing, ETHZ):
Least Squares Fit with Piecewise Functions
- 9:30- 9:55 Dr Wesley Petersen (Seminar of Applied Mathematics, ETHZ):
Solving Poisson's equation in high dimensions
- 10:00-10:25 Prof Petros Koumoutsakos (Computational Science Laboratory, ETHZ):
Stochastic Optimization
- 10:30-11:00 Coffee break
- 11:00-11:25 Christian Gut (Institute of Scientific Computing, ETHZ):
Web-Based Interactive Learning in Scientific Computing
- 11:30-11:55 Prof Matthias Troyer (Institute of Theoretical Physics, ETHZ):
How to buy, build and run a Beowulf - Cluster
- 12:00-12:25 Prof Rolf Jeltsch (Seminar of Applied Mathematics, ETHZ):
The CSE curriculum at ETH
- 14:00-18:00 SCOPES Meeting (Part 2)
- Discussion of CSE core courses
 - Discussion of domain-specific courses
 - Discussion of next activities