

***Sunday, June 6, 2004***

*Sightseeing to the Great Wall and Forbidden City*

***Monday, June 7, 2004***

**Opening Ceremony**                      09:00-10:00

**Chair:** Zhong-ci Shi

**Group photo**

**Invited Talks**

**Chair:** Zhong-ci Shi

Bjorn Engquist                              10:00-11:00

*Heterogeneous Multiscale Methods*

Tao Tang                                      11:00-12:00

*Moving Mesh Methods for Incompressible Flow Simulations*

**Lunch**                                        12:00-13:30

**Chair:** Bjorn Engquist

Bertil Gustafsson                            13:30-14:30

*High Order Time Compact Difference Methods for Wave Propagation Problems*

Zhi-ping Li                                    14:30-15:30

*Young Measure and Artificial Boundary Micromagnetics Multi-atomic Young Measure and Artificial Boundary in Approximation of Micromagnetics*

**Coffee Break**                                15:30-16:00

Per Loetstedt                                16:00-17:00

*High Dimensional Problems in Molecular Biology*

Jin-ping Zeng                                17:00-18:00

*Convergence Analysis of the Generalized Schwarz Algorithms for Obstacle Problems with T-monotone operator*

**Dinner:** 18:30-20:00

**Venue:** *Guest House of Institute of Physics*

***Tuesday, June 8, 2004***

**Invited Talks**

**Chair:** Vidar Thomee

Zhiming Chen 08:30-09:30

*Sharp  $L^1$  a Posteriori Error Analysis for Nonlinear Convection Diffusion Problems*

**Coffee Break** 09:30-10:00

Stig Larsson 10:00-11:00

*A Posteriori Error Estimates for Particle Trajectories and Velocity in Stationary Stokes Flow*

Xiao-ping Wang 11:00-12:00

*On Efficient Numerical Method for the Micromagnetic Simulations*

**Lunch** 12:00-13:30

**Chair:** Chuanmiao Chen

Olof Runborg 13:30-14:30

*Normal Multiresolution Approximation of Curves and Surfaces*

Aihui Zhou 14:30-15:30

*A Posteriori Error Estimates for Markov Approximations of Frobenius-Perron Operators*

**Coffee Break** 15:30-16:00

Anna-Karin Tornberg 16:00-17:00

*Numerical Simulations of Fiber Suspensions*

Yin-nian He 17:00-18:00

*Simple Multi-level Finite Element Method in Space-time for the Navier-Stokes Problem*

**Banquet:** 18:30-20:00

**Venue:** *Guest House of Institute of Physics*

**Wednesday , June 9, 2004**

## **Invited Talks**

**Chair:** Gustaf Soederlind

Vidar Thomee 08:30-09:30

*Adaptive Edge Element Discretizations in Electromagnetic Field Computation*

**Coffee Break** 09:30-10:00

Chuanmiao Chen 10:00-11:00

*Structure and Conjecture of Multiple Solutions for Nonlinear Differential Equations*

Bo Kagstroem 11:00-12:00

*Recursive Blocked Algorithms and Hybrid Data Structures for Dense Matrix Computations*

**Lunch** 12:00-13:30

**Chair:** Tao Tang

Mo Mu 13:30-14:30

*Network/Grid Computing: Modeling, Algorithms, and Software*

Gustaf Soederlind 14:30-15:30

*Recent Developments in Adaptive Time-stepping*

**Coffee Break** 15:30-16:00

Pingbing Ming 16:00-17:00

*Cauchy-Born Rule and Crystal Stability*

Erik Burman 17:00-18:00

*A  $C^0$  Interior Penalty Method for the Incompressible Navier-Stokes Equation*

**Closing** 18:00-18:10

**Dinner:** 18:30-20:00

**Venue:** *Guest House of Institute of Physics*