Scientific program

1ˢᵗ day (Monday, 22 August):

9:00   Registration.

9:55   Opening.

10:00 Key-note lecture:
Prof. Ulrich Langer (Johannes Kepler University Linz, Institute for Computational Mathematics, Austria)
"***The Multiharmonic Finite Element Method for the Simulation and Optimal Control of Parabolic Problems***".

11:00 Dirk Pauly (Universität Duisburg-Essen, Fakultät für Mathematik, Campus Essen, Germany)
"***Functional A Posteriori Error Estimates for Static Maxwell Problems***".

11:20 Coffee break.

12:00 Tatiana Samrowski (Institut für Mathematik, Universität Zürich, Switzeralnd)
"***Estimates of modeling errors for stationary reaction-diffusion problems***".

12:20 Sabrina Gippert (Universität Duisburg-Essen, Fakultät für Mathematik, Germany)
"***On a FETI-DP domain decomposition method for linear elasticity problems with compressible and incompressible material components in 3D***".

12:40 Svetlana Matsulevich (St.Petersburg State Politechnical University, Russia)
"***Reliable method for solving some evolutionary problems***".

13:00 Lunch.

15:00 Hong Wang (University of Jyväskylä, Finland)
"***A fast meshless method for compressible flows***".

15:20 Kirill Terehov (Institute of Numerical Mathematics of Russian Academy of Science, Russia)
"***Parallel implementation of method of free surface flow simulation on adaptive octree cartesian grid***".

15:40 Anna Borich (Moscow Institute of Physics and Technology, Russia)
"***A posteriori error estimation of calculation two-dimensional system of shock within the framework of the Euler equations***".

16:00 Olga Lebedeva (Institute of Numerical Mathematics of Russian Academy of Science, Russia)
"***Eigensolvers based on tensor approximations in TT and QTT formats***".

16:20 Coffee break.

17:00 Sergey Alyaev (University of Bergen, Norway)
"***Multiscale investigation for non-Darcy's flows***".

17:20 Maria Churilova (St.Petersburg State Politechnical University, Russia)
"***Mesh adaptations based on functional type a posteriori error estimates with a Raviart-Thomas approximation***".

17:40 Alexey Muzalevski (St.Petersburg State Politechnical University, Russia)
"**On error estimates for approximate solutions of problems in the theory of thermoelasticity**".

18:00 Welcome party.

2nd day (Tuesday, 22 August)

10:00   Key-note lecture:
Prof. Rolf Stenberg (Aalto University, Finland)
"*Finite element methods for the Brinkman problem*".

11:00   Olli Mali (University of Jyväskylä, Finland)
"*Analysis of errors caused by incomplete knowledge of material data in mathematical models of elastic media*".

11:20   Coffee break.

12:00   Juha Jeronen (University of Jyväskylä, Finland)
"*Uncertain data in dynamics of an axially moving panel: a statistical approach*".

12:20   Tytti Saksa (University of Jyväskylä, Finland)
"*Dynamics of axially moving viscoelastic panels*".

12:40   Marjaana Nokka (University of Jyväskylä, Finland)
"*A posteriori estimates for Uzawa type methods in the theory of incompressible fluids*".

13:00   Lunch.

15:00   Mikhail Skopenkov (IITP RAS, KAUST, Russia)
"*Convergence of the cotangent scheme for solution of the Dirichlet boundary value problem*".

15:20   Yuriy Semerich (Department of Applied and Higher Mathematics of the Penza State University, Russia)
"*The R-functions method for mathematical modeling of field propagation in the coaxial gyrotron*".

15:40   Walk through city center, Peter and Paul fortress.

18:30   Bout trip.

3rd day (Wednesday, 22 August)

10:00   Key-note lecture:
Prof. Alex Klawonn (Universität Duisburg-Essen, Fakultät für Mathematik, Germany)
"**Deflation and Projector Preconditioning in iterative substructuring methods: Connections and new results**".

11:00   Immanuel Anjam (University of Jyväskylä, Finland)
"*Estimates of uncertainty errors for a magnetostatics problem*".

11:20   Tatiana Dobroserdova (Lomonosow Moscow State University, Russia)
"*Modelling of the atherosclerosis influence on hemodynamics*".

11:40   Santtu Salmi (University of Jyväskylä, Finland)
"*PDEs motivated by financial applications*".

12:00   Coffee break.

12:40   Round table discussion.

13:40   Closing.

14:00   Trip to Petergof (Summer residence of the Russian Royal Family).