Workshop program

October 29

09:00 – 09:20 — Registration

09:20 – 09:30 — Opening of the conference

09:30 – 10:10
Zhukov Victor, Novikova N.D., Feodoritova O.B.
“Numerical modeling of conjugate heat transfer processes in gas flows around bodies"

10:10 – 10:50
Kiselev Sergey
“The wave formation effect during oblique collision of metal plates"

10:50 – 11:30
Golubev Vasily, Nikitin I.S.
“Numerical calculation of fatigue strength of metal samples manufactured by selective laser melting”

11:30 – 11:50 — Coffee break

11:50 – 12:30
Kulikov Igor, Marchenko M.A., Yeltsov I.N., Chernykh I.G., Evmenova D.M., Shorina E.N., Lebedev M.A.
“Supercomputer modeling of debris flow using the example of the northern macroslope of the Khamar-Daban ridge”

12:30 – 13:10
Simakov Sergey
“Mathematical models of blood circulation: from physiology to clinical applications"

13:10 – 15:00 — Lunch

Online session

9:00 – 9:40 CET (15:00 – 15:40 NSK)
Peshkov Ilya
“Microstructured solids as Riemann -Cartan manifolds”

9:40 – 10:20 CET (15:40 – 16:20 NSK)
Toro Eleuterio
“FORCE: First ORder CEntred Algorithms for Hyperbolics”

10:20– 10:40 CET (**16:20– 16:40 NSK)** — Coffee break

10:40 – 11:20 CET (16:40 – 17:20 NSK)
Kurganov Alexander
“Adaptive Schemes for Hyperbolic Systems of Conservation Laws”

11:20 – 12:00 CET (17:20 – 18:00 NSK)
Warnecke Gerald
“Transformations of convex and concave functions”

12:00 – 12:40 CET (18:00 – 18:40 NSK)
Ferrari Davide
“Compressible Multiphase Flow: From Model Formulation to Numerical Solutions”

October 30

09:00 – 09:40
Sadovsky Vladimir
“Discontinuous Solutions in Problems of the Dynamics of the Elastoplastic Cosserat Continuum”

09:40 – 10:20
Marchuk Nikolay
"On the development of S.K. Godunov's symmetrization method"

10:20 – 11:00
Chumakov Gennady
"Godunov's Method for Constructing Two-Dimensional Structured Quasi - Isometric Grids"

11:00 – 11:20 — Coffee break

11:20 – 12:00
Polekhina Ruzana, Savenkov E. B.
“Well-controlled dissipation (WCD) scheme for the numerical solution of hyperbolic systems with small-scale-dependent shock waves”

12:00 – 12:40
Kolotilov V. A., **Ostapenko Vladimir**, Khandeeva N. A.
“A new class of finite-difference schemes with increased accuracy in the regions of influence of shock waves”

12:40 – 13:20
Kolotilov Vadim, Ostapenko V.V.
“Monotonic modifications of the CABARET scheme”