

CONFERENCE PROGRAM

FDM'18

(11 – 16.06. 2018)

Monday, June 11	
9:00 – 19:00	Registration, Hotel Ambelitz
Lecture Hall 1	
9:45 – 10:30	Opening: Deputy Minister at Ministry of Education and Science – Bulgaria Prof. I. Dimov , <i>Computational Nano-Physics-Monte Carlo Approach</i>
Chairman:	K. In't Hout
10:30 – 11:15	<u>Vladimir Shaydurov</u> , S. Zhang, E. Karepova, <i>Computational Mean-Field Game for Emission-Permit Trading</i>
11:15 – 12:00	A. Ern, T. Gudi, I. Smears, <u>Martin Vohralík</u> , <i>Potential and Flux Reconstructions for Optimal a Priori and a Posteriori Error Estimates</i>
Lunch break	
Chairman:	J. Chaskalovic
13:45 – 14:30	A.Churbanov <u>Petr Vabishchevich</u> , <i>Numerical Solving a Boundary Value Problem for the Eikonal Equation</i>
14:30 – 15:15	Natalia Kopteva, <i>Error Analysis of the L_1 Method on Graded and Uniform Meshes for a Fractional-derivative Problem in a Two and Three dimensions</i>
15:15 – 16:00	Olivier Lafitte, <i>Coupling Two Pphysical Problems: Neutronics Equations Coupled with Hydrodynamics Equations</i>
Coffee break	
Chairman:	H. Yoshioka
16:35 – 17:20	<u>J. Chaskalovic</u> , F. Assous, <i>From a Geometrical Interpretation of Bramble Hilbert Lemma to a Probabilistic Distribution for Finite Elements Accuracy</i>
17:20 – 18:05	Song-Ping Zhu, <i>Finite Difference Methods and their applications in pricing American options</i>
18:05 – 18:50	Maxim Olshansky, <i>Adaptive FDM for Free –Surface Incompressible Flows</i>

Tuesday, June 12

9:00 – 19:00 Registration, Hotel Ambelitz

Lecture Hall 1

Chairman: *P. Vabishchevich*

8:30 – 9:15 J. A. Ferreira, *Supraconvergence and Supercloseness of Schemes for Multiphysics Problems*

Coffee break

9:45 – 10:30 Bruno Despres, *Recent Results In Positivity Preserving Polynomials*

10:30 – 12:10 Special Session: *Finite differences methods in life sciences*
Organized by: G. Pena, J. A. Ferreira

Chairman: *J.A. Ferreira*

10:30 – 10:55 J. A. Ferreira, P. de Oliveira, Gonçalo Pena, *A Nonuniform Finite Difference Scheme for a Iontophoresis Model*

10:55 – 11:20 Ercilia Sousa, Amal K. Das, *A Fractional Diffusion Model with Resetting*

11:20 – 11:45 J.A. Ferreira, Daniela Jordao, L. Pinto, *Coupling Ultrasound Propagation and Drug Transport: A Second Order Fully Discrete FEM*

11:45 – 12:10 J.A. Ferreira, P. Oliveira, Elisa Silveira, *Temperature Enhanced Drug Delivery System: An Accurate Discrete Model Under Weak Smoothness Assumptions*

Lunch break

Chairman: *S. Polyakov*

14:15 – 14:40 Viktoriia Podryga, Sergey Polyakov *Multiscale Mathematical Modeling of the Metal Nanoparticles Motion in a Gas Flow*

14:40 – 15:05 Yuri Poveshchenko, V.O. Podryga, P.I. Rahimly, *About Free-Volumetric Approximation of a Piezoconductive Medium with Gas Hydrate Inclusions*

15:05 – 15:30 Igor Popov, Yuri Poveschenko, Sergey V. Polyakov, *Construction of a Higher-order Approximation Difference Scheme for a Nonlinear Convection-Diffusion Equation Using Adaptive Artificial Viscosity with Respect to Two-phase Filtering Problems*

15:30 – 15:55 Parvin Rahimly, Yu.A. Poveshchenko, V.O. Podryga, O.R. Rahimly, *Completely Conservative Difference Schemes for Simultaneous Calculations of Thawed Hydrated Zone and Piezoconductive Medium with Gas Hydrate Inclusions*

Coffee break

Chairman: *Y. Poveshchenko*

16:30 – 16:55 Yuri N. Karamzin, Sergey Polyakov, Viktoriia O. Podryga, *Finite Difference Schemes on Locally Refined Cartesian Grids for the Solution of Gas Dynamic Problems on the Basis of Quasigasdynamic Equations*

16:55 – 17:20 Yuri Poveshchenko, P.I. Rahimly, I.V. Gasilova, G.V. Kazakevich, Yu.S. Sharova, *Modeling of Fluidodynamic Processes in a Porous Medium with Gashydrate Deposits*

17:20 – 17:45 S.Yu. Guskov, N.V. Zmitrenko, Orkhan Rahimly, *A Converging Shock Wave for Ignition of a Pre-compressed Target of Laser Thermonuclear*

17:45 – 18:10	<i>Fusion</i> <u>Yulia. Sharova</u> , Yu.A. Poveshchenko, S.B. Popo, <i>Integral-Consistent Numerical Technique for Self-Gravitating Medium Model</i>
18:10 – 18:35	<u>Jun Yu</u> , Kewang Chen, Laura K. Gross, <i>Asymptotic and Numerical Analyses of Dynamics in a Generalized Free-Interfacial Combustion Model</i>
18:35 – 19:00	<u>Sergey V. Bogomolov</u> , N.B. Esikova, A.E. Kuvshinnikov, P.N. Smirnov, <i>On Gas Dynamic Hierarchy</i>
Lecture Hall 2	
10:30 – 12:10	Special Session: Meshfree Generalized Finite Difference Methods: From Theory to Applications Organized by: I. Michel, P. Suchde
Chairman:	P. Suchde
10:30 – 10:55	<u>Pratik Suchde</u> , Joerg Kuhnert, <i>A Meshfree Generalized Finite Difference Method For Surface PDEs</i>
10:55 – 11:20	<u>Fabian Nick</u> , Bram Metsch and Hans-Joachim Plum, <i>Algebraic Multigrid Methods for Meshfree and Generalized Finite Difference Methods</i>
11:20 – 11:45	Oleg Davydov, <i>Stencil Selection for Meshless Finite Difference Methods</i>
11:45 – 12:10	Csaba Gáspár, <i>The Method of Fundamental Solutions Combined with a Multi-Level Technique</i>
Lunch break	
Chairman:	M. Vohralik,
14:15 – 14:40	<u>Felix R. Saucedo-Zendejo</u> , Edgar O. Resendiz-Flores, Jörg Kuhnert <i>Three-dimensional modelling of mould filling processes in casting using a GFDM</i>
14:40 – 15:05	Anastasia V. Sivtseva, <u>Petr V. Sivtsev</u> , <i>Numerical Simulation of Stress-Strain State of Basalt Roving</i>
15:05 – 15:30	<u>S.Chandra Sekhara Rao</u> , Sheetal Chaw, <i>The Error Analysis of Finite Difference Approximation for a System of Semilinear Reaction-diffusion Problems with Discontinuous Source Term</i>
15:30 – 15:55	A.V. Avvakumov, V.F. Strizhov, P.N. Vabishchevich, <u>Alexandr Vasilev</u> , <i>Automatic Time Step Selection for Numerical Solution of Neutron Diffusion Problems</i>
Coffee break	
Chairman:	J. Geiser
16:30 – 16:55	<u>Andrey Gusev</u> , O. Mazhorova, O. Shcheritsa, <i>Mathematical Modeling of Phase Transitions in Multicomponent Alloys</i>
16:55 – 17:20	Andreas Langer, <i>Convergent Domain Decomposition Methods for Total Variation Minimization</i>
17:20 – 17:45	<u>Nadezhda Fialko</u> , V.D. Lakhno, <i>On the Modeling of the Charge Transfer along DNA at T=300K</i>
17:45 – 18:10	Natalia Yaparova, <i>Numerical Method for Calculating the Pipe Spatial Vibrations</i>
18:10 – 18:35	Vladimir Vasilyev, <i>On Digital Pseudo-differential Operators and Equations</i>
18:35 – 19:00	Aigul Manapova, <i>On Convergence of Difference Schemes for Nonlinear Elliptic Equations with Unbounded Nonlinearity</i>
20:30	Welcome party (Hotel Ambelitz)

Wednesday, June 13

9:00 – 19:00 Registration, Hotel Ambelitz

Lecture Hall 1

Chairman: *V. Shaydurov*

8:30 – 9:15 Stéphane Bordas, *Free Boundary Problems: Challenges and Opportunities for Adaptive Collocation Schemes*

9:15 – 10:00 Hidekazu Yoshioka, Yuta Yaegashi, *Finite Difference Scheme for Stochastic Differential Games with Several Singular Control Variables and its Environmental Application*

Coffee break

Poster session during the coffee break

Hidekazu Yoshioka, Kentaro Tsugihashi, Yuta Yaegashi, *Finite Difference Computation of a Stochastic Aquaculture Problem under Incomplete Information*

Zorica Milovanovic, *One Class of Contour Problems with Nonlocal Integral Conjugation Conditions*

Felix Bernardo, Claudio Cuevas, *Bounded Solutions of Volterra Functional Difference Equations*

10:30 – 17:25 Special Session: *Iterative schemes for solving nonlinear models*

Organized by: M.P.Vassileva, A.Cordero, J.R.Torregrosa

Chairman: *A. Cordero*

10:30 – 10:55 Alicia Cordero, Ivan Gimenez, Juan R. Torregrosa, *Efficiency and Stability of a Family of Iterative Schemes for Solving Nonlinear Equations*

10:55 – 11:20 Javier G. Maimo, Maria P. Vassileva, *Dynamical Study of a New Bi-parametric Family of Methods With Memory*

11:20 – 11:45 Alicia Cordero, Juan R. Torregrosa, Maria P. Vassileva, *Multidimensional Real Dynamics for High-Order Processes*

11:45 – 12:10 Fiza Zafar, Alicia Cordero, Juan R. Torregrosa, *On a Family of Optimal Eighth order Multiple Root Finders with Multivariate Weight Function*

12:10 – 12:35 Maria P. Vassileva, Javier G. Maimo, *Bi-parametric Family of Methods with Memory Based of Ostrowski-Chun Method*

Lunch break

Chairman: *J. Torregrosa*

14:15 – 14:40 Alicia Cordero, Lucia Guasp, Juan R. Torregrosa, *Stability of a Family of Iterative Methods of Fourth-order*

14:40 – 15:05 Ramandeep Behl, Eulalia Martinez, Ali Saleh Alshomrani, *An Optimal Eighth-order Scheme for Multiple Roots Applied to Some Real Life Problems*

15:05 – 15:30 Alexandru-Mihai Bica, Mircea Curila, Sorin Curila, *Spline Iterative Method for Pantograph Type Functional Differential Equations*

15:30 – 15:55 Solodushkin S.I. and Irina Iumanova, *The Third Order Iterative Method for Solving Nonlinear Parabolic Equations and its Application to the Heart Models*

Coffee break

Chairman:	M. Stehlik
16:35 – 17:20	Jurgen Geiser, <i>Recent Advances in Iterative Splitting Methods for Multicomponent and Multiscale Problems: Theory and Applications</i>
17:20 – 17:45	Alex Timonov, <i>Iterative Algorithms For Coupled Physics Electrical Conductivity Imaging</i>
17:45 – 18:10	<u>Irina Zakharova</u> , A. Kalinovich, M. Komissarova, S. Sazonov, <i>Multi-step Iterative Algorithm for Mathematical Modeling of Light Bullets in Anisotropic Media</i>

Lecture Hall 2

Chairman:	S. Bordas
10:30 – 11:15	Milan Stehlik, <i>Modeling of Cancer Risk</i>
11:15 – 11:40	<u>Pavlina Jordanova</u> and Milan Stehlik, <i>P-thinned Gamma process and corresponding random walk.</i>
11:40 – 12:05	<u>Alexander S. Sipin</u> , Alexander I. Zeifma, <i>Numerical Experiments For Some Markov Models For Solving Boundary Value Problems</i>
12:05 – 12:30	Wojciech Kempa, <i>Time to Start a Crowded Period in a Finite-buffer Queue with Poisson Input Flow and General Processing Times</i>

Lunch break

14:15 – 17:00	Special Session: <i>Advanced numerical and applied studies of inverse problems</i> Organized by: S. Kabanikhin, M. Shishlenin
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Chairman:	M. Shishlenin
14:15 – 14:40	Sergey Kabanikhin, <u>M.A. Shishlenin</u> , <i>Numerical Methods for Solving Inverse and Ill-posed problems of Mathematical Physics</i>
14:40 – 15:05	<u>D.V. Lukyanenko</u> , V.T. Volkov, M.A. Shishlenin, <i>Solving of the Coefficient Inverse Problem for a Nonlinear Reaction-Diffusion Equation with the Location of the Moving Front Data</i>
15:05 – 15:30	<u>Alexey Penenko</u> , V.V. Penenko, E.A. Tsvetova, Z.S. Mukatova, <i>Consistent Discrete-Analytical Schemes for the Solution of the Inverse Source Problems for Atmospheric Chemistry Models with Image-Type Measurement Data</i>
15:30 – 15:55	<u>Dulus Ivanov</u> , P. N. Vabishchevich, <i>Iterative Process for Numerical Recovering The Lowest Order Space-Wise Coefficient in Parabolic Equations</i>

Coffee break

Chairman:	O. Lafitte
16:35 – 17:00	<u>Maxim Shishlenin</u> , N.S. Novikov, <i>Numerical Simulation of the Two-dimensional Acoustic Tomography</i>
17:00 – 17:25	Seungil Kim, <i>Error Analysis of a PML-FEM Approximation for the Helmholtz Equation in Waveguides</i>
17:25 – 17:50	T.V. Gorbova, V.G. Pimenov, <u>S.I. Solodushkin</u> , <i>Difference Schemes for the Nonlinear Equations in Partial Derivatives with Heredity</i>
17:50 – 18:15	Liudmila Prokudina, <i>Nonlinear differential equation of the surface section of gas-liquid</i>
18:15 – 18:40	Baver Okutmustur, <i>Analysis of Burgers Model on Reisnerr-Nordström Spacetime by Finite Volume Approximations</i>

Poster session:	
18:40-19:00	<u>Alexander Vyatkin</u> , Elena Kuchunova, <i>Numerical Method of Navier-</i>

Stokes Equations for Multicomponent Air Motion Modeling

Mikhail Kolev, Ana Markovska, *On a Numerical Analysis of the Interactions Between viral Infection and Immune System*

Anelia Urumova, Boyko Kolev, Mikhail Kolev, *Mathematical modelling of environmental components*

Iveta Nikolova, M. Kolev, *Autoimmune diseases: mathematical modelling and computer simulations*

Irina Naskinova, M. Kolev, *On a computational study of growth of microorganisms*

Thursday, June 14

Lecture Hall 1

Chairman: *N. Kopteva*

8:30 – 9:15 Grigorii Shishkin, *Improved Computer Scheme for a Singular Perturbed Parabolic Convection-Diffusion Equation*

Lecture Hall 1

9:15 – 12:05 **Special Session:** *Novel Methods in Computational Finance*
Organized by: M. Ehrhardt, C. Mishra, S. Wang

Chairman: *S. Wang*

9:15 – 10:00 Karel in 't Hout, *ADI Schemes For Valuing European Options Under The Bates Model*

10:00 – 10:30 **Coffee break**

10:30 – 11:15 Christian Hendricks, Matthias Ehrhardt, Michael Günther, *High-Order Methods For Parabolic Equations in Multiple Space Dimensions For Option Pricing Problems*

11:15 – 11:40 Vitaly Kamynin, Tatiana Bukharova, *On Inverse Problem of Determination of the Coefficient in the Black-Scholes Type Equation*

11:40 – 12:05 Mani Mehra, Kuldip Singh Patel, *High-Order Compact Finite Difference Method For Time Fractional Black-Scholes Partial-Differential Equation*

12:05 – 12:30 M. Novikov, V. Lisitsa, Tatiana Khachkova, *Numerical Estimation of Seismic Wave Attenuation in Fractured Porous Fluid-saturated Media*

Lunch break

Chairman: *I. Farago*

14:00 – 14:45 Zahari Zlatev, Ivan Dimov, Istvan Farago, Krassimir Georgiev, Agnes Havasi, *Stability Properties of Repeated Richardson Extrapolation Applied together with some Implicit Runge-Kutta Methods*

14:45 – 15:30 Istvan Farago, *Qualitative Properties of Discrete Mesh Operators and Their Relations*

15:30 – 18:00 **Special Session:** *Numerical methods for propagation processes*
Organized by: Petra Csomós and István Faragó

15:30 – 15:55 Zahari Zlatev, I. Dimov, I. Farago, K. Georgiev, A. Havasi,, *Implementation of the Two-times Repeated Richardson Extrapolation together with Explicit Runge-Kutta Methods*

Coffee break

Chairman:	Z. Zlatev
16:20 – 16:45	Sidafa Conde, <u>Imre Fekete</u> , John N. Shadid, <i>Embedded Error Estimation and Adaptive Step-Size Control for Optimal Explicit Strong Stability Preserving Runge-Kutta Methods</i>
16:45 – 17:10	M. Mincsovcics, <i>Discrete C^1 Convergence of Linear Multistep Methods</i>
17:10 – 17:35	<u>B. Takacs</u> , R. Horvath, I. Farago, <i>A Two Dimensional Model for the Ecological Collapse of Easter Island</i>
17:35 – 18:00	Petra Csomós, <i>Innovative Integrators for Optimal Control of Shallow Water Equations</i>
18:00 – 18:25	<u>Abdujabar Rasulov</u> , Raimova G.M., Baqoev M.T., <i>Monte Carlo Solution of Dirichlet Problem for Helmholtz Equation with a Polynomial Non-linearity</i>
18:25 – 18:50	G.V. Reshetova, <u>Tatiana Khachkova</u> , <i>Parallel Numerical Method to Estimate the Effective Elastic Moduli of Rock Core Samples from 3D Tomographic Images</i>

Lecture Hall 2

11:15 – 15:50	Special Session: <i>Reliable difference methods for Singularly Perturbed Problems</i> Organized by: G. Shishkin, L. Shishkina
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Chairman:	G. Shishkin
11:15 – 11:40	Lidia Shishkina, <i>Development and Numerical Study of Robust Difference Schemes for a Singularly Perturbed Transport Equation</i>
11:40 – 12:05	<u>Ilhame Amirali</u> , Gabil M. Amiraliyev, <i>Numerical Method for Parameterized Singularly Perturbed Problem Containing Integral Boundary Condition</i>
12:05 – 12:30	<u>Irina Tselishcheva</u> , Grigorii Shishkin, <i>On a Reliable Numerical Method for a Singularly Perturbed Parabolic Reaction-Diffusion Problem in a Doubly Connected Domain</i>
12:30 – 12:55	Vasiliy Kachalov, <i>Analytic Theory of Singular Perturbations and the Regularization Method of SA Lomov</i>

Lunch break

Chairman:	L. Shishkina
15:05 – 15:30	<u>Joginder Singh</u> , Sunil Kumar, Mukesh Kuma, <i>A High Order Accurate Overlapping Domain Decomposition Method for Singularly Perturbed Reaction-Diffusion Systems</i>
15:30 – 15:55	Svetlana Tikhovskaya, <i>Solving a Singularly Perturbed Elliptic Problem by a Cascadic Multigrid Algorithm with Richardson Extrapolation</i>

Coffee break

16:20 – 18:00	Special Session: <i>Asymptotic Analysis for Numerical Methods for Problems with Sharp Transition Layers</i> Organized by: N. Nefedov
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Chairman:	N. Nefedov
16:20 – 16:45	Nikolay Nefedov, <i>Blowing-up of Fronts in Reaction-Diffusion-Advection Problems</i>
16:45 – 17:10	<u>Vladimir Volkov</u> , D.V. Lukyanenko, <i>Asymptotic-Numerical Method for the Description of Moving Fronts in Nonlinear Two-dimensional Reaction-Diffusion Models</i>
17:10 – 17:35	<u>Marina Davydova</u> , N.N. Nefedov, S.A. Zakharova, <i>On a Stable Solutions of the Some Nonlinear Singularly Perturbed Problems of the</i>

17:35 – 18:00	<i>Heat and Mass Transfer</i> <u>Alina A. Melnikova</u> , Natalia N. Deryugina, <i>The Problem of the Front Motion to a Nonlinear System of Equations</i>
18:00 – 18:25	Vyacheslav A. Trofimov, <u>Evgeny Trykin</u> , <i>Explicit and Conditionally Stable Combined Numerical Method for 1D and 2D Nonlinear Schrödinger Equation</i>

Poster session:	
18:25-18:50	Zhanat Dzhobulaeva, <i>The Estimates of the Solution of the Nonregular Problem for the Parabolic Equations with Two Small Parameters in the Boundary Conditions</i> Alexander Zadorin, <i>Analogue of Cubic Spline for Functions With Large Gradients in a Boundary Layer</i> Maria Ivanchuk, Igor Malyk, <u>Tetiana Knihnitska</u> , Pavlo Ivanchuk, <i>An Example of Markov Chains Application in Medicine</i>

Friday, June 15

Lecture Hall 1

8:30 – 12:35	Special Session: <i>Numerical methods for fractional derivative problems and applications</i> Organized by: A. Alikhanov, R. Lazarov, M. Stynes
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Chairman:	S.-P. Zhu
8:30 – 9:15	Song Wang, <i>Numerical Solution of Fractional ODEs and Optimal Control Problems</i>
9:15 – 10:00	Martin Stynes, <i>A Second-Order Method On Graded Meshes For A Time-Fractional Diffusion Problem</i>

Coffee break

Chairman:	M. Stynes
10:30 – 10:55	Anatoly A. Alikhanov, <i>A difference analogue of the higher order approximation for Caputo fractional derivative and its application for solving the time-fractional diffusion equation</i>
10:55 – 11:20	<u>Monzorul Khan</u> , Yubin Yan, <i>The spectral method for solving stochastic space-fractional partial differential equation</i>
11:20 – 11:45	<u>Valentin Alekseev</u> , Tyrylgina A.A., Vasilyeva M.V, <i>Generalized Multiscale Finite Element Method for Elasticity Problem in Fractured Media</i>
11:45 – 12:10	<u>Denis Spiridonov</u> , Vasilyeva M.V., <i>A Generalized Multiscale Finite Element Method for Modeling Unsaturated Filtration in Fractured Media</i>
12:10 – 12:35	<u>Maria Vasilyeva</u> , Eric T. Chung, Yalchin Efendiev, Wing Tat Leung, Yating Wang, <i>Upscaled Model For Mixed Dimensional Coupled Flow Problem In Fractured Porous Media Using Non-Local Multi-Continuum (NLMC) Method</i>
12:35 – 13:00	<u>Uygulaana Gavrilieva</u> , Alekseev V.N., Vasilyeva M.V., <i>Generalized Multiscale Discontinuous Galerkin Method for Helmholtz Problem in Fractured Porous Media</i>

Lecture Hall 2

Chairman: *M. Ehrhardt*

10:30 – 10:55 *Lucila Helena Allan Leskow, Codes Generation Based on Hyperbolic Tessellations*

10:55 – 11:20 *Lidiya V. Gileva, Evgeniya D. Karepova, Vladimir V., Shaidurov, The Application of Hermite Finite Elements to the Solution of the Helmholtz Equation*

11:20 – 11:45 *Valentin Gushchin, Vasilii G. Kondakov, On One Method for Solving of a Non-stationary Fluid Flows with Free Surface*

11:45 – 12:10 *Aleksei Tyrylgin, Brown D, Vasilyeva M.V., Generalized Multiscale Finite Element Method for Poroelasticity Problems in Heterogeneous Media*

12:10 – 12:35 *Tatiana Akimenko, E. Filippova, Computer Modeling of Diagnostics of Thermal Imaging Devices*

14:00

Excursion

20:00

Official Dinner (Hotel Ambelitz)

Saturday, June 16

Lecture Hall 1

Chairman: *V. Shaidurov*

8:00 – 9:25 *Mikhail Filimonov, N. Vaganova, Simulation of Influence of Special Regimes of Horizontal Flare Systems on Permafrost*

9:25 – 9:50 *Oleg Shatrov, O. Shcheritsa, O. Mazhorova, Problem of Planform Selection in an Internally Heated Fluid Layer*

9:50 – 10:15 *Nataliia Vaganova, M. Filimonov, Simulation of Cooling Devices and the Effect for Thermal Stabilization Soil in a Cryolithozone with Anthropogenic Impact*

10:15 – 10:40 *Vasil'ev, A.M. Anatol Kardashevsky, V.V. Popov, The Conjugate Gradient method for the Dirichlet Problem and its Modifications*

10:40 – 10:50 Closing

Departure