
MASTER PROGRAM

for

**ELEVENTH INTERNATIONAL CONFERENCE
*APPLICATION OF MATHEMATICS IN TECHNICAL AND NATURAL
SCIENCES*
ALBENA, JUNE 20-25, 2019**

WEDNESDAY, JUNE 19, 2019

17:00-19:00 REGISTRATION
Flamingo Grand Hotel – 3rd floor

THURSDAY, JUNE 20, 2019

07:30-08:30 REGISTRATION
Flamingo Grand Hotel – 3rd floor

08:30-09:00 OPENING (Flamingo Grand Hall)

09:00-10:00 PLENARY LECTURE: Vladislav Pukhnachev
Title: *Singularities in Viscous Flows*

(Flamingo Grand Hall)
Chair: Michail Todorov

10:00-10:30 COFEE BREAK

Parallel Session SCIENTIFIC COMPUTING
(Flamingo Grand Hall)
Chair: Vladislav Pukhanchev

10:30-11:00 Speaker: Peter Martyshko
Title: *On Solutions Forward and Inverse Problem Potential Geophysical Fields*

11:00-11:30 Speaker: Elena Akimova
Title: *Conjugate Gradient Method for Solving the Inverse Gravimetry Problem in Multilayered Medium: Parallel Implementation on GPU*

11:30-12:00 Speaker: Elena Lilkova
Title: *Computational Study of Novel Natural Bioactive Peptides in Solution*

Parallel Session MATHEMATICAL PHYSICS AND
TRANSPORT PROCESSES
(Flamingo Grand Jaco Hall)
Chair: Ivanka Zheleva

10:30-11:00 Speaker: Anna Efimova
Title: *Hybrid Models of Ion-Acoustic Collisionless Shock*

11:00-11:30 Speaker: Merike Martsepp
Title: *Multifractal Analysis of Plasma Irradiated Tungsten Alloy Samples*

11:30-12:00 Speaker: Vladimir Gerdjikov
Title: *Kulish-Sklyanin Type Models: Integrability, Reductions and Soliton Solutions*

12:00-14:00 LUNCH

14:00-15:00 Parallel Session SCIENTIFIC COMPUTING
(Flamingo Grand Hall)
Chair: Alex Fedoseyev

14:00-14:30 Speaker: Valentin Gushchin
Title: *Solution of the Problems of Nonhomogeneous Incompressible Fluid Dynamics by the CABARET Method*

14:30-15:00 Speaker: Todor Gurov
Title: *An Integrated Software Package for Estimating Parameters of the Brown Bear (*Ursus arctos* L.) Population*

15:00-15:30 Speaker: Dobri Dankov
Title: *Rarefied Gas Between Two Coaxial Cylinders – Transient Heat Transfer: The Effect of Pulsating Radial Motion of the Outer Cylinder. Acoustic Waves Modeling*

15:30-16:00 Speaker: Leonid Makarenko
Title: *Finite Element and Finite Difference Algorithms for Calculations of Electron Energy Spectra in the System of Isolated Donor-Quantum Dot*

14:00-16:00 Special Session GEOMETRICAL METHODS IN
TECHNICAL AND NATURAL SCIENCES
(Flamingo Grand Jaco Hall)
Chair: Volodymyr Kiosak

- 14:00-14:30 Speaker: Olexander Lesechko
Title: *Models of Mechanical Systems Preserving the Weyl Tensor*
- 14:30-15:00 Speaker: Oksana Nikitenko
Title: *Geodesic Lines on the Cyclic Helical Surfaces*
- 15:00-15:30 Speaker: Olena Gudyreva
Title: *Mappings of Special Quasi-Einstein Spaces*
- 15:30-16:00 Speaker: Nina Vashpanova
Title: *Canonical Deformations of Pseudo-Riemannian Space*

16:00-16:30 COFEE BREAK

16:30-17:30 Parallel Session NUMERICAL METHODS
(Flamingo Grand Hall)
Chair: Ivanka Zheleva

16:30-17:00 Speaker: Ion Malael
Title: *Drag Based Vertical Axis Wind Turbine Numerical Efficiency Evaluation*

17:00-17:30 Speaker: Natalia Yaparova
Title: *Mathematical Model and Method for Calculating the Growth of Non-Metallic Inclusions in Multicomponent Melt*

17:30-18:30 Parallel Session APPLIED PHYSICS
(Flamingo Grand Hall)
Chair: Ivanka Zheleva

17:30-18:00 Speaker: Jeni Vilag
Title: *Numerical Simulation of Alternative Fuels Combustion in Gas Turbines*

18:00-18:30 Speaker: Adina Toma
Title: *Assessment of Optimal Tool Parameters used in Numerical Simulation for Hot Mandrel Bending of Pipe Elbows*

16:30-17:30	Special Session GEOMETRICAL METHODS IN TECHNICAL AND NATURAL SCIENCES (Flamingo Grand Jaco Hall) Chair: Olexander Lesechko
16:30-17:00	Speaker: Sergey Pokas Title: <i>Geometry of Riemannian Spaces of the 2nd Approximation</i>
17:00-17:30	Speaker: Mykhailo Zarichnyi Title: <i>Strong Topology on the Set of Persistence Diagrams</i>
20:00	WELCOME PARTY – the lawn in front of Bailando bar MEETING POINT RECEPTION OF FLAMINGO GRAND HOTEL 19:50

FRIDAY, JUNE 21, 2019

08:30-09:30 PLENARY LECTURE: Yuri Bozhkov
Title: *Equivalence Group for Generalized Kudryashov-Sinelshchikov Equations of Second Order*

(Flamingo Grand Hall)
Chair: Michail Todorov

09:30-10:00 COFFEE BREAK

10:00-12:00 Parallel Session SCIENTIFIC COMPUTING
(Flamingo Grand Hall)
Chair: Yuri Bozhkov

10:00-10:30 Speaker: Natalia Vaganova/Mikhail Filimonov
Title: *Simulation of Thermal Effects of Engineering Objects and Climate Changes on the Permafrost Boundaries*

10:30-11:00 Speaker: Borislav Stoyanov
Title: *Two Zaslavsky Maps in Pseudorandom Byte Generation*

11:00-11:30 Speaker: Victoria Rayskin
Title: *Users Traffic on the Two-Sided Internet Platforms. Qualitative Study*

11:30-12:00 Speaker: Evgenia Karepova
Title: *The Application of Special Hermite Finite Elements Coupled with Collocation to the 3D Poisson Equation*

10:00-12:00 Parallel Session NUMERICAL METHODS
(Flamingo Grand Jaco Hall)
Chair: Tatyana Pukhancheva

10:00-10:30 Speaker: Natalia Kolkovska
Title: *Solitary Waves to Boussinesq Equation with Linear Restoring Force*

10:30-11:00 Speaker: Lyudmila Prokudina/Dmitry Yaparov

Title: *Numerical Modeling of the Mass of the Flowing Liquid at Transverse Oscillations of the Straight Tube*

11:00-11:30 Speaker: Ekaterina Genrikh
Title: *Hybrid Model of the Open Plasma Trap*

11:30-12:00 Speaker: Veselina Vucheva
Title: *A Momentum Preserving Numerical Method for a Sixth Order Boussinesq Equation*

12:00-14:00 LUNCH

Flamingo Grand Hall
Chair: Michail Todorov

14:00-14:45 KEYNOTE LECTURE: Hristo Kojouharov
Title: *Mathematical Modeling of Bone Fracture Repair*

15:00-16:00 Parallel Session CONTINUUM MECHANICS
(Flamingo Grand Hall)
Chair: Victoria Rayskin

15:00-15:30 Speaker: Martin Nikolo
Title: *Measurements of Upper Critical Fields in Ni- and Co- and K- Doped Iron Based Pnictide Bulk Superconductors*

15:30-16:00 Speaker: Alexandre Fedoseyev
Title: *Amplification of Longitudinal EM Waves in Graded Low-Epsilon Materials*

15:00-16:00 Parallel Session BIOMATHEMATICS
(Flamingo Grand Jaco Hall)
Chair: Hristo Kojouharov

15:00-15:30 Speaker: Anna Antonova
Title: *Some Qualitative Properties of the Solutions of Goodwin's Equation with Fixed Delay*

15:30-16:00 Speaker: Igor Fedotov - cancelled
Title: *Identification of Holling-Tanner Model with Incomplete Information about Model Parameters*

16:00-16:30 COFEE BREAK

16:30-19:00 Parallel Session APPLIED ANALYSIS
(Flamingo Grand Hall)
Chair: Anna Antonova

16:30-17:00 Speaker: Vesela Mikhova
Title: *Price Forecasting and Risk Portfolio Optimization*

17:00-17:30 Speaker: Maya Markova
Title: *Foreign Exchange Rate Forecasting With Artificial Neural Networks*

17:30-18:00 Speaker: Iryna Hvozdeva
Title: *New Trend Criteria for Monitoring the Conditions of Technical Objects*

18:00-18:30 Speaker: Svetlana Zaitseva
Title: *Noise-Induced Phantom Attractor in the Enzyme Kinetics*

18:30-19:00 Speaker: Iliyana Raeva
Title: *Computation of Risk in Pricing of Investment Projects*

16:30-18:00 Parallel Session BIOMATHEMATICS
(Flamingo Grand Jaco Hall)
Chair: Hristo Kojouharov

16:30-17:00 Speaker: Peter Hinow
Title: *Tiny Giants - Mathematics Looks at Zooplankton*

17:00-17:30 Speaker: Sylvi-Maria Gurova
Title: *Analysis of a Predator-Prey Model with SEIRS Epidemic in the Prey Population*

- 17:30-18:00 Speaker: Andrius Misiukas
Title: *Machine Learning Based EEG Classification by
Diagnosis: Approach to EEG Morphological Feature
Extraction*
- 18:00-19:00 Parallel Session OTHERS
(Flamingo Grand Jaco Hall)
Chair: Hristo Kojouharov
- 18:00-18:30 Speaker: Dimitar Fidanov
Title: *Statistical Modeling of CuBr-Ne-HBr Laser
Characteristics at High Repetition Frequency*
- 18:00-18:30 Speaker: Atanas Ivanov
Title: *Two-Step Time Series Analysis for Air Pollution in
Relation to Weather Conditions: Case Study of Nessebar,
Bulgaria*
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SATURDAY, JUNE 22, 2019

08:30-09:30 Flamingo Grand Hall
Chair: Michail Todorov

PLENARY LECTURE: Sergey Shmarev - telebridge with
Oviedo, Spain
Title: *Higher Regularity of Solutions of Singular Parabolic
Equations with Nonstandard Growth*

09:30-10:00 COFEE BREAK

10:00-12:00 Parallel Session BIOMATHEMATICS
Flamingo Grand Hall
Chair: Peter Hinow

10:00-10:30 Speaker: Gabriel Dimitriu
Title: *Processing Epidemiological Data Using Dynamic Mode
Decomposition Method*

10:30-11:00 Speaker: Nicoleta Tarfulea
Title: *A Discrete Mathematical Model for Single and Collective
Movement in Amoeboid Cells*

11:00-11:30 Speaker: Yulia Olevska
Title: *Fuzzy Recognition of Proteins in Population Genetics
Electrophoresis Experiments*

11:30-12:00 Speaker: Gergana Nikolova
Title: *A Mathematical Model of the Human Thigh and Its
Connection with the Torso*

10:00-12:00 Parallel Session MATHEMATICAL PHYSICS AND
TRANSPORT PROCESSES
(Flamingo Grand Jaco Hall)
Chair: Vladimir Gerdjikov

10:00-10:30 Speaker: Stefani Panayotova

Title: *Some Analytical Solutions for Magnetic Flux Distribution in Long Josephson Junction with Second Harmonic in the Current Phase Relation*

10:30-11:00 Speaker: Lyubomir Kovachev
Title: *Longitudinal Radiation Forces and Trapping of Particles in Femtosecond Pulses*

11:00-11:30 Speaker: Daniela Georgieva
Title: *New Nonlinear Parametric Conversion Mechanism for Coherent THz Generation*

11:30-12:00 Speaker: Boryana Nenova
Title: *Evolution of Ultra-Short Dark Solitons in Single Mode Optical Fibers*

12:00-12:30 LUNCH

12:30-19:00 EXCURSION TO THE ARCHEOLOGICAL MUSEUM IN VARNA, MUSEUM OF GLASS IN BELOSLAV, AND THE STONE PHENOMENON *STONE FOREST* NEAR VARNA

19:30 BANQUET DINNER ETHNO-RESTAURANT OF *SALT & PEPPER* IN BALCHIK, MEETING POINT RECEPTION OF FLAMINGO GRAND HOTEL

SUNDAY, JUNE 23, 2019

08:30-09:30 PLENARY LECTURE: Vladimir Sadovsky
Title: *Mathematical Modeling of Deformation of Structurally Inhomogeneous Materials Based on a Generalized Rheological Approach*

(Flamingo Grand Hall)
Chair: Michail Todorov

09:30-10:00 COFEE BREAK

10:00-12:00 Parallel Session CONTINUUM MECHANICS
(Flamingo Grand Hall)
Chair: Vladimir Sadovsky

10:00-10:30 Speaker: Ivan Zubko
Title: *Material Symmetry Conjugated Spin and Deformation Tensors for Orthotropic Media*

10:30-11:00 Speaker: Igor Petrakov
Title: *Identification of the Elastic Modules of a Fibrous Composite by Solving Inverse Problems*

11:00-11:30 Speaker: Sergey Meleshko – telebridge with Moscow, Russia
Title: *Applications of the Group Analysis Method to the One- and Two-Dimensional Gas Dynamics Equation in Lagrangian Coordinates*

11:30-12:00 Speaker: Irina Smolekho
Title: *Numerical Modeling of the Dynamic Processes in Liquid Crystals under the Action of Thermomechanical and Electrostatic Perturbations*

10:00-12:00 Special Session APPLIED ANALYSIS
(Flamingo Jaco Hall)
Chair: Rossen Ivanov

- 10:00-10:30 Speaker: Boris Ananyev
Title: *A Motion Correction of Stochastic Evolutionary Systems with Uncertainties*
- 10:30-11:00 Speaker: Elena Kostousova
Title: *On a Polyhedral Method of Solving an Evasion Problem for Linear Dynamical Systems*
- 11:00-11:30 Speaker: Mikhail Gusev
Title: *External Estimates and Comparison Principle for Trajectory Tubes of Nonlinear Control Systems*
- 11:30-12:00 Speaker: Yurii Bazylevych/Iryna Kostiusko
Title: *Matrices Diagonalization in Solution of Partial Differential Equation of the First Order*
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12:00-14:00 LUNCH

Session PROBABILITY AND STATISTICS
(Flamingo Grand Hall)
Chair: Michail Todorov

- 14:00-14:45 KENOTE LECTURE: Lili Yang
Title: *Optimization of Fire Station Locations through Genetic Algorithms*

Special Session STATISTICS AND MODELING
(Flamingo Grand Hall)
Chair: Lili Yang

- 14:45-15:30 KENOTE LECTURE: Pavlina Jordanova
Title: *Probabilities for p -Outliers - General Properties*
- 15:30-16:00 Speaker: Pavlina Jordanova/Milan Stehlik
Title: *Logarithm of Ratios of Two Order Statistics and Regularly Varying Tails*
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15:30-16:00 Parallel Session APPLIED ANALYSIS
(Flamingo Grand Jaco Hall)
Chair: Lili Yang

15:30-16:00 Speaker: Nevena Ilieva
Title: *A Novel 3D Visualization Approach: a Proof-of-Concept Study on the Histidine Residues in Myoglobin*

16:00-16:30 COFEE BREAK

16:30-17:00 Special Session “STATISTICS AND MODELING”
(Flamingo Grand Hall)
Chair: Pavlina Jordanova

16:30-17:00 Speaker: Venelin Todorov
Title: *A Comparison of Monte Carlo Methods Based on Faure and Sobol Sequences for Multidimensional Integrals in Air Pollution Modeling*

17:00-18:30 Special Session “ADVANCES IN MODERN CONTINUUM MECHANICS. FREE BOUNDARY PROBLEMS” devoted to Professor Vladislav Pukhnachev jubilee
(Flamingo Grand Hall)
Chair: Vladimir Gerdjikov

17:00-17:30 Speaker: Alexander Korobkin
Title: *Impact onto Floating Ice*

17:30-18:00 Speaker: Tatyana Khabakhpasheva
Title: *Theoretical Model of Elastic Disc Lifting from a Water Surface*

18:00-18:30 Speaker: Anna Chugaynova
Title: *Longitudinal and Torsional Shock Waves in Anisotropic Elastic Cylinders*

16:30-18:30 Parallel Session APPLIED ANALYSIS
(Flamingo Grand Jaco Hall)

Chair: Iryna Hvozdeva

- 16:30-17:00 Speaker: Andrei Tarfulea
Title: *Existence, Continuation, and Lower Mass Bounds for the Landau Equation*
- 17:00-17:30 Speaker: Svetlana Zaitseva
Title: *Order and Chaotic Regimes in 3D Goldbeter Model*
- 17:30-18:00 Speaker: Victor Olevsky
Title: *Application of Two-Dimensional Pade Approximants for Reducing the Gibbs Phenomenon*
- 18:00-18:30 Speaker: Viktor Lyashenko/ Anton Zaika
Title: *Temperature Field Distribution in Spoke-Type Permanent Magnet Synchronous Machines*
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18:45 OFFICIAL DINNER IN RESTAURANT OF RAI, ALBENA,
GATHERING POINT: *FLAMINGO GRAND* RECEPTION

MONDAY, JUNE 24, 2019

08:30-09:30 PLENARY LECTURE: Rossen Ivanov
Title: *Hamiltonian Approach to Nonlinear Water Waves – The Long Wave Approximation*

(Flamingo Grand Hall)
Chair: Michail Todorov

09:30-10:00 COFEE BREAK

10:00-12:00 Parallel Session APPLIED ANALYSIS
(Flamingo Grand Hall)
Chair: Rossen Ivanov

10:00-10:30 Speaker: Mikhail Gusev
Title: *On Convexity of Small-time Reachable Sets of Nonlinear Control Systems*

10:30-11:00 Speaker: Petras Rupsys
Title: *Modeling Perspectives of Forest Growth and Yield: Framework of Multivariate Diffusion Process*

11:00-11:30 Speaker: Polina Yurovskih/ Boris Ananyev
Title: *On the Approximation of Estimation Problems for Controlled Systems*

11:30-12:00 Speaker: Dzhihan Menseidov
Title: *Thermal and Electrical Characterization of Nanocomposites with Carbon Particles*

10:00-12:00 Parallel Session CONTINUUM MECHANICS
(Flamingo Grand Jaco Hall)
Chair: Boris Ananyev

10:00-10:30 Speaker: Andrei Kolyshkin
Title: *On the Stability of a Steady Convective Flow Due to Nonlinear Heat Sources in a Magnetic Field*

- 10:30-11:00 Speaker: Olga Rozanova
 Title: *Ellipsoidal Vortices in Compressible Rotating Fluid*
- 11:00-11:30 Speaker: Daria Kitaeva
 Title: *On Task of Thick-Walled Aluminum Pipe under High Temperature Deformation*
- 11:30-12:00 Speaker: Alexey Zaitsev/ Ivan Zubko
 Title: *Flexible Graphite as a Second-Grade Material*
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12:00-14:00 LUNCH

- 14:00-16:00 Parallel Session NUMERICAL METHODS
 (Flamingo Grand Hall)
 Chair: Alex Fedoseyev
- 14:00-14:30 Speaker: Nicolae Tarfulea
 Title: *Numerical Approach for a Class of Differential Equations with Constraints*
- 14:30-15:00 Speaker: Alexander Matviychuk
 Title: *On One Applicability Criteria for Methods of Approximate Control System Reachable Set Construction*
- 15:00-15:30 Speaker: Todor Gurov
 Title: *A Short-Term Interest Rate Merton's Model Influenced by a Risk Market Factor*
- 15:30-16:00 Speaker: Evgeniya Karepova
 Title: *The Application of Special Hermite Finite Elements Coupled with Collocation to the 3D Poisson Equation*
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- 14:00-15:30 Parallel Session MATHEMATICAL PHYSICS AND
 TRANSPORT PROCESSES
 (Flamingo Grand Jaco Hall)
 Chair: Olga Rozanova
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- 14:00-14:30 Speaker: Daniel Dantchev
Title: *Analytic Representation of the Order Parameter Profiles and Susceptibility of a Ginzburg-Landau Type Model with Dirichlet-Dirichlet Boundary Conditions on the Confining the Fluid Walls*
- 14:30-15:00 Speaker: Mikhail Filimonov
Title: *Application of Series with Recurrently Calculated Coefficients for Solving Initial-Boundary Value Problems for Nonlinear Wave Equations*
- 15:00-15:30 Speaker: Lyudmila Prokudina
Title: *Numerical Simulation of Nonlinear Development of Perturbations in a Thin Layer of a Viscous Liquid*
- 15:30-16:00 Speaker: Victoria Kornienko
Title: *Step-By-Step Nanostructures Formation under Uniform Laser Field*

16:00-16:30 COFEE BREAK

- 16:30-18:30 Parallel Session NUMERICAL METHODS
(Flamingo Grand Hall)
Chair: Ivan Lirkov
- 16:30-17:00 Speaker: Victoria Kornienko/Vladimir Shaydurov
Title: *Numerical Methods for Mean Field Games with Discontinuous Control Function*
- 17:00-17:30 Speaker: Marina Boronina
Title: *Computer Simulation of Plasma Dynamics in Open Magnetic System*
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- 17:30-18:30 POSTER SESSION
(Flamingo Grand Hall)
- 17:30-17:45 Speaker: Tatyana Pukhnacheva
Title: *Stokes Problem for Second-Order Liquid*
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- 17:45-18:00 Speaker: Ivanka Zheleva/Irina Tsvetanova
Title: *Statistical Study of the Influence of the Atmospheric Characteristics upon the Particulate Matter (PM10) Air Pollution in the City of Silistra, Bulgaria*
- 18:00-18:15 Speaker: Ivanka Zheleva/Ivan R. Georgiev
Title: *Numerical Study of the Influence of the Two-Burner Heating upon the Heat Transfer during Pyrolysis Process used for End-of-Life Tires Treatment*
- 18:15-18:30 Speaker: Elitsa Raeva
Title: *Risk Estimation in Case of Limited the Insurance Liability*
- 18:30-18:45 Dzhihan Menseidov
Title: *Automated Management System for the Temperature in a Pyrolysis Station Used for End-of-Life Tires Treatment*

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- 16:30-17:30 Special Session “ADVANCES IN MODERN CONTINUUM MECHANICS. FREE BOUNDARY PROBLEMS” devoted to Professor Vladislav Pukhnachev jubilee (Flamingo Grand Jaco Hall)
Chair: Vladislav Pukhnachev
- 16:30-17:00 Speaker: Evgeniy Magdenko
Title: *Axial Convection of Two Immiscible Fluids in a Vertical Tube*
- 17:00-17:30 Speaker: Sergei Osipov
Title: *Some Challenges in Oilfield Development*

TUESDAY JUNE 25, 2019

08:30-09:30 PLENARY LECTURE: Georgi Grahovski
Title: *On the Derivative Nonlinear Schrödinger Equation
Related to Symmetric Spaces*
(Flamingo Grand Hall)
Chair: Michail Todorov

09:30-10:00 COFEE BREAK

10:00-12:00 Session SCIENTIFIC COMPUTING
(Flamingo Grand Hall)
Chair: Georgi Grahovski

10:00-10:30 Speaker: Ivan Lirkov
Title: *Performance Analysis of Hybrid Parallel Solver for 3D
Stokes Equation on Intel Xeon Computer System*

10:30-11:00 Speaker: Oxana Sadovskaya
Title: *Supercomputing Analysis of Seismic Efficiency of the
Electromagnetic Pulse Source "Yenisei"*

11:00-11:30 Speaker: Alexandre Fedoseyev
Title: *Radiation Effects in Space Silicon Solar Cells: Numerical
Models and Software*

11:30-12:00 Speaker: Biser Tsvetkov
Title: *Using Smart Contracts for Software Lifecycle
Management Automation*

10:00-12:00 Session NUMERICAL METHODS
(Flamingo Grand Jaco Hall)
Chair: Daniel Dantchev

10:00-10:30 Speaker: Svetlana Tikhovskaya
Title: *Solving an Elliptic Problem with Regular and Parabolic*

Boundary Layers by a Multigrid Algorithm

- 10:30-11:00 Speaker: Alexander Matviychuk
Title: *An Algorithm for Estimating Reachable Set of Control System under Uncertainties*
- 11:00-11:30 Speaker: Stavros Meskos/Stefan Stefanov
Title: *A Direct Simulation Monte Carlo Approach on Riemann Problems in Gas Dynamics*
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12:00 RECAPITULATION, NOMINATIONS AND OFFICIAL
CLOSING SESSION OF THE CONFERENCE (Flamingo
Grand Hall)

12:00 GOOD-BYE COFEE BREAK

13:30 EXCURSION TO THE BOTANIC GARDEN IN BALCHIK
AT YOUR OWN