
MASTER PROGRAM

for

**SEVENTEENTH INTERNATIONAL CONFERENCE
*APPLICATION OF MATHEMATICS IN TECHNICAL AND NATURAL
SCIENCES*
JUNE 24-29, 2025**

**All times in the program are GMT+3 (East-European time). Please
synchronize your local time with respect to GMT and join the announced
Zoom sessions on time.**

THURSDAY, JUNE 26, 2025

Flamingo Grand Hall

Join Zoom Meeting **08:00-12:30**

[https://us02web.zoom.us/j/86426842393?pwd=kVnXH5N6MEZ7YOnzaaYaLmCwUbOORl.
1](https://us02web.zoom.us/j/86426842393?pwd=kVnXH5N6MEZ7YOnzaaYaLmCwUbOORl.1)

Meeting ID: 864 2684 2393

Passcode: 887967

Hosted by Michail Todorov

08:30-09:30 **PLENARY TALK**

Speaker: Rossen Ivanov

Title: *On the Dynamics of Interacting Vortices and Water
Waves*

09:30-10:00 Coffee Break

10:00-10:30	Session NUMERICAL METHODS
10:00-10:30	Speaker: Volodymyr Chumakov Title: <i>Simulation Charging of the Forming Line by the Operator Method</i>
10:30-12:00	Session MATHEMATICAL MODELING IN ECONOMY AND FINANCE
10:30-11:00	Speaker: Ivan Georgiev Title: <i>Modeling a Valid Work Schedule using Integer Optimization over a Non-Convex Set</i>
11:00-11:30	Speaker: Elitsa Raeva Title: <i>Capital Asset Pricing Model in Insurance Risk Theory</i>
11:30-12:00	Speaker: Elitsa Raeva Title: <i>Bayesian Approach for Bulgarian Insurance Company Classification According the Policy Premiums</i>
<hr/> Lunch Break <hr/>	
14:00	Excursion to the town of Dobrich Meeting point: the lounge of Flamingo Grand Hotel at 13:45. Everybody are welcome.

Corella Hall

PARALLEL SESSION

Join Morning 2 Zoom Meeting 10:00-11:30
<https://essex-university.zoom.us/j/92040184669>

Hosted by Georgi Grahovski

10:00-11:30 Session APPLIED ANALYSIS

10:00-10:30 Speaker: Emin Ozcag
Title: *An Extension of the Definition on the Compositions of Generalized Functions and Powers of Some Singular Generalized Functions Defined as the N-limit of Regular Sequences*

10:30-11:00 Speaker: Meglena Lazarova
Title: *Some Properties and Applications of the Univariate and Bivariate Non-central Polya-Aeppli Distributions*

11:00-11:30 Speaker: Venelin Todorov
Title: *Advanced Monte Carlo Techniques for High Dimensional Fredholm and Volterra Integral Equations*

11:30-12:00 Speaker: Georgi Boyadzhiev
Title: *Comparison Principle for Reaction-Diffusion Systems with Delays and Application in SEIR Spatial models*

Lunch Break

14:00 Excursion to the town of Dobrich

Meeting point: the lounge of Flamingo Grand Hotel at 13:45.
Everybody are welcome.