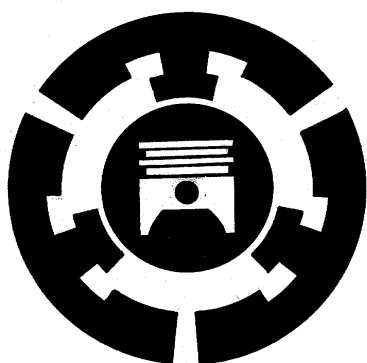


**ТЕХНИЧЕСКИ УНИВЕРСИТЕТ - ВАРНА
КАТЕДРА “ТРАНСПОРТНА ТЕХНИКА И ТЕХНОЛОГИИ”**

ПРОГРАМА

**XXXII НАУЧНО-ТЕХНИЧЕСКА КОНФЕРЕНЦИЯ С
МЕЖДУНАРОДНО УЧАСТИЕ**

“ТРАНСПОРТ, ЕКОЛОГИЯ - УСТОЙЧИВО РАЗВИТИЕ”



**ЕКО ВАРНА ‘2026
4 – 6 Юни 2026**

4.06.2026 г.

- 12⁰⁰ – 13⁰⁰ Регистрация на участниците. Конферентна зала на Rosslyn Dimyat Hotel Varna
- 13⁰⁰ – 13¹⁵ Откриване на конференцията от проф. д-р инж. Здравко Иванов

Водещ заседанието: доц. д-р инж. Веселин Михайлов

- 13¹⁵ – 13³⁰ Dimitar Dimitrov - Potential for reduction of unburned fuel emissions from large gas engines through changes in valve timings using simulation
- 13³⁰ – 13⁴⁵ Evgeny Dimitrov - Study on the effect of adjustment parameters on the performance of a gasoline engine running on LPG
- 13⁴⁵ – 14⁰⁰ Stefan Stefanov - Analysis of the 5L40-E automatic transmission: operation and maintenance challenges
- 14⁰⁰ – 14¹⁵ Simeon Iliev - Sprocket topology optimization for Shell-Eco Marathon car prototype
- 14¹⁵ – 14³⁰ Plamen Punov - Numerical study on the engine combustion characteristics of premixed methane ignited by diesel fuel: A comparison between 3D and 0D approach
- 14³⁰ – 14⁴⁵ Daniel Ivanov - System-engineering model for cumulative construction and assessment of competencies in road safety education
- 14⁴⁵ – 14⁵⁵ Velichka Georgieva - Investigation of the Performance Characteristics of a Diesel Engine Operating with Biodiesel
- 14⁵⁵ – 15⁰⁵ Rosen Hristov - Temporally synchronized deep learning for automated vehicle classification and speed humps noise identification
- 15⁰⁵ – 15²⁰ Miltcho Lepoev - Technical specifications for interoperability (TSI) in the European union (EU) with particular issues connected with railway bridges
- 15²⁰ – 15⁴⁵ Дискусии и кафе пауза

Водещ заседанието: доц. д-р инж. Росен Христов

- 15⁴⁵ – 16⁰⁰ Tsvetan Blagoev - Factors affecting the interaction between railway track structure and bridge structures with small and medium spans
- 16⁰⁰ – 16¹⁵ Krasimir Markov - CO2 emissions reduction of a hybrid vehicle running on alternative fuel
- 16³⁰ – 16⁴⁵ Martina Blagoeva - Investigation of an old riveted steel bridge from the Sofia–Mezdra railway section, part of the first main railway line. possibilities for its adaptation to contemporary requirements
- 16⁴⁵ – 17⁰⁰ Vladimir Zhekov - Determination of low-traffic thresholds at pedestrian crossings in railway stations and assessment of the selected protection measures
- 17⁰⁰ – 17¹⁵ Lazar Georgiev - Case study of two footbridges near Kardjali in Bulgaria
- 17¹⁵ – 17³⁰ Galina Ilieva - Waste heat recovery in shipping via Kalina cycle: a basis methodology for analysis and energy efficiency improvement
- 17³⁰ – 17⁴⁵ Stoyan Stoyanov - Mass conductance of a low-pressure LPG injector as a function of valve lift and nozzle diameter
- 17⁴⁵ – 18⁰⁰ Velichka Georgieva - Digital automatic coupling as an enabler of sustainable rail freight: technology, regulatory pathways, and implementation experience within the PioDAC programme
- 17⁵⁰ – 18⁰⁰ Miroslav Žitňák - Assessment and reduction of noise exposure as a factor of work environment quality in a manufacturing organization
- 18⁰⁰ – 18¹⁰ Asen Asenov - Integrated analysis of the energy efficiency and carbon footprint of a mixed fleet in urban public transport of a medium-sized city
- 18¹⁰ – 18²⁰ Ahmed Ahmed - Assessment of the impact of downsizing and downspeeding in modern internal combustion engines on the car performance

- 18²⁰ – 18³⁰ Olha Sotnik – Modeling and optimization of rural distribution networks with solar power plants and energy storage systems
- 18³⁰ – 18⁴⁰ Sergy Krivoschapov - Determination of fuel consumption in the cycle "acceleration - constant speed movement – deceleration - stopping" using the method of mathematical modelling

19⁰⁰ Вечеря в ресторанта на хотел Rosslyn Dimyat Hotel Varna

5.06.2026 г.

Конферентна зала ТУ-Варна НУК

Водещ заседанието: доц. д-р инж. Радостин Димитров

Кръгла маса на тема „Екологични проблеми в транспорта”.

Постерна сесия

1. Valeri Savchev - Fuel composition and injection parameters - an analysis of their influence on diesel engine characteristics
2. Vyacheslav Pavlenko - The impact of adaptive suspension on vehicle service life and functional safety
3. Volodymyr Bezridnyi - Detonation and methods and equipment for its testing
Yuriy Zybtssev – Vehicle drive and transmission systems
4. Alexey Bazhinov - Assessment of degradation and cyclicity of the resource of a car's traction battery
5. Irina Saraieva - Diagnostic features of the cylinder piston group of gasoline engines of a car
6. Vladimir Volkov – Features of diagnosing automotive mechatronic systems
7. Sergey Krivoschapov - Recording air temperature in the fuel rationing procedure for motor vehicles
8. Oleksandr Nazarov - Comparison of the service life of disc and drum brake mechanisms in passenger cars
9. Alexander Dityatiev - Diagnosis of the shock absorber as part of the car suspension
10. Yuriy Gorbik - Changing the vehicle's fuel efficiency under simulated conditions on a roller stand
11. Hennadii Ptytsia - Justification and selection of KPIS for traffic management systems in urban networks
12. Natalia Ptytsia - Efficiency of logistics systems in last-mile distribution
13. Volodymyr Makarov - Study of the complex effect of grinding parameters on the quality of surfaces processed with a silicate abrasive composition
14. Serhii Mastepan - Optimization of running-in parameters using a silicate abrasive composition via a full factorial experiment
15. Mikhail Nahliuk - Change in the electrical conductivity of vehicle coolants depending on the amount of fuel consumed
16. Ihor Marmut – Improving the mathematical model of fuel consumption for city buses

6.06.2026 г.

Срещи и дискусии на територията на катедра „Транспортна техника и технологии”
Технически университет – Варна