

PROGRAM



11th International Conference
"Modern trends in science"

FMNS-2025

11 - 15.06.2025, Blagoevgrad, BULGARIA

Patronized by Prof. Nikolay Marin, PhD Rector of South-West University

http://www.fmns.swu.bg



CONFERENCE TOPICS:

Chemistry

Physics

Geography

Ecology and Environmental Protection

Mathematics

Informatics

Methodology in Education

Program Overview

Registration (11.06.2025)

13:00 - 18:30

University Conference Centre "Bachinovo"

Opening Ceremony (12.06.2025)

10:00 - 10:30

Central Auditorium, Conference Center

Plenary Lectures (12.06.2025)

Central Auditorium, Conference Center

10:30 - 11:10

Prof. DSc Peter Boyvalenkov,

Institute of Mathematics and Informatics, Bulgarian Academy of Sciences

"Polarization of spherical codes and designs"

11:10 - 11:50

Prof. Vesna Stankov Jovanović, PhD, University of Niš

"Advancements in Sample Preparation Techniques for the Analysis of Persistent Organic Pollutants: A Focus on PAHs"

11:50-12:30

Assoc. Prof. António Domingos, PhD, NOVA University of Lisbon

"What is the professional

knowledge of teachers to integrate STEM into their teaching practices?"

Group photo - in front of the central entrance of the Conference center of South-West University - "Bachinovo"

12.06.2025

12:30

Plenary Lectures (13.06.2025)

Central Auditorium, Conference Center

10:30 - 11:10

Assoc. Prof. Sanka Velichkova Gateva-Kostova, PhD,

Institute of Electronics, Bulgarian Academy of Sciences

"Coherent Magneto-Optical Resonances in alkali atoms and their applications"

11:10-11:50

Prof. Stoyan Nedkov, PhD,

National Institute of Geophysics, Geodesy and Geography, Bulgarian Academy of Sciences

"Mapping of ecosystem services and the transformative change of the European environmental policy"

11:50-12:30

Prof. Krasimir Maney, PhD, New Bulgarian University

"Mathematics in the early education of programmers"

Sessions

12.06.2025

13:30 – 15:30 and 16:00 – 18:00 University Conference Center "Bachinovo"

13.06.2025

13:30 – 15:30 and 16:00 – 18:00 University Conference Center "Bachinovo"

> Poster sessions 12.06.2025 and 13.06.2025 18:00 – 19:30

Special session

"Challenges and Opportunities for Implementing STEM Approaches in Secondary and Higher Education"

14.06.2025 10:00 - 12:00

Conference Hall

Welcome Party 12.06.2025 18:00 – 20:00

University Conference Center "Bachinovo"

Official dinner 13.06.2025 20:00

University Conference Center "Bachinovo"

Social program 14.06.2025 9:30 – 14:00

Section: Chemistry Hall 4

Thursday, June 12 th	
Chairman:	Assoc. Prof. Mitko Stoev
13:30- 13:45	O-C-1 Chemical composition of underground waters as a tool for finding connections between caves (applied for Nanzheng area, Shaanxi province, Central China) David Havlíček, Michal Filippi, Zdeněk Motyčka, Kateřina Havlíčková
13:45- 14:00	O-C-2 Preparation and characterization of molecular crystal based on 2D carriers of NLO properties Ivan Němec, <i>Irena Matulková, Ivana Císařová, Soňa Kohúteková, Petr Němec</i>
14:00- 14:15	O-C-3 Isoindoline-1,3-diimine Derivatives Investigated by NMR/XRD/DFT Approach Stanislava Majerova, Ales Ruzicka
14:15- 14:30	O-C-4 Structurally Tunable Main Group Metal Complexes Bearing an Electronically Versatile/Fluxional Biguanide Ligand Lukas Vlk, Tomas Chlupaty, Alena Hoffmannova, Zdenka Ruzickova, Ales Ruzicka
14:30- 14:45	O-C-5 Hydrogen Peroxide Production: A Sustainable Electrochemical Perspective Desislava Apostolova, , Ivo Bardarov, Maris Mathew, Anders Tjell, Ema Gričar, Mark Stari, Igor Plazl, Pedro Martins, Miha Nosan, Torsten Mayr, Dušan Strmcnik, Boštjan Genorio
14:45- 15:00	O-C-6 Upcycling Carbon Fiber Composites into Flash Graphene: A High Efficiency Electrocatalyst for H ₂ O ₂ Synthesis Ivo Bardarov, Elitsa Chorbadzhiyska, Desislava Apostolova, Pedro Martins, Bostjan Genorio
15:00- 15:15	O-C-7 The electrochemical activation of a ceria-based sensor for ofloxacin detection Aleksandar Stanojević, Tijana Jovanović, Emilija Pecev-Marinković, Mihajlo Kulizić, Aleksandar Lolić, Aleksandra Pavlović, Ivana Rašić Mišić
15:15- 15:30	O-C-8 The comparative evaluation of post-modification activated CPEs modified with MWCNTs, ZrO2 and Gd2O3 for fluoroquinolone detection Tijana Jovanović, Aleksandar Stanojević, Boris Stanković, Emilija Pecev-Marinković, Branka Petković, Milica Petrović, Ivana Rašić Mišić
Coffee breal	
	Assoc. Prof. Petko Mandjukov
16:00- 16:15	O-C-9 Production of hydrochar from rice husk by hydrothermal carbonization <i>A.B. Toibazarova, N. O. Appazov</i>
16:15- 16:30	O-C-10 Extraction of rice husk and preparation of fatty acid monoglycerides from rice husk extract. Bekzhan Alimkhan, Nurbol Appazov, Magzhan Bekhozhaev
16:30- 16:45	O-C-11 Battery Emulator built by using RISC Microcontroller architecture Dimitar Boychev, Blagoy Burdin, Daria Vladikova
16:45- 17:00	O-C-12 Porous One-dimensional Carbon Nanostructures Derived from Biomass Wastes as Efficient Pt-free Cathodes for Green Hydrogen Production Sara Mahmood Adnan, Eiman. K. Almohannadi, Kamel Eid
17:00- 17:15	O-C-13 Technologies for the production of activated carbon and features of the raw materials used Saken A. Kanzhar, Nurlan O. Appazov
17:15- 17:30	O-C-14 Metrological aspects of analysis of methyl-mercury in marine sediment and biota <i>Ava Amideina, Anna Maria Orani, Sabine Azemard, Petko Mandjukov</i>
17:30- 17:45	O-C-15 MP–AES determination of trace elements in waters. Method validation <i>Ava Amideina, Tsvetanka Avramova, <u>Petko Mandjukov</u></i>

Section: Physics Conference hall

Friday, June 13th	
	Assoc. Prof. Svetoslav Kolev
13:30-	O-P-1 Multiferroics- preparation method and physical properties
13:45	Svetoslav Kolev, Tatyana Koutzarova, Borislava Georgieva, Todor Cholakov
13:45-	O-P-2 Impact of Nutritional Fortification on the Pulsed Photostimulated Luminescence
14:00	Response of Salts
	Aleksandar Krleski, Kristina Smokrović, Ivica Đilović, Luka Bakrač, Nadica Maltar- Strmečki, Ralitsa Stanoeva
14:00-	O-P-3 Thermoluminescent Properties of Salt-Based Materials Modified by Nutritional
14:15	Supplementation
	Aleksandar Krleski, Ralitsa Stanoeva, Ivana Fabijanikj Sandeva, Lihnida Stojanovska- Georgievska, Margarita Ginovska, Hristina Spasevska
14:15-	O-P-4 Gelatine - glass microbubbles hydrocolloid as potential medical phantom
14:30	material in computed tomography
	Ginka Exner, Veselina Georgieva, Yordan Marinov, Georgi Tankovski, Nikoleta Traikova
14:30-	O-P-5 Some physical and physicochemical properties of jelly dessert prepared from
14:45	gelatin and orange juice
	Georgi Tankovski, Ivan Bodurov, Ginka Exner
14:45-	O-P-6 Latest observations with the telescopes of the Astronomical Observatory at the
15:00	University of Shumen
	Dragomir Marchev, Borislav Borisov, Sunay Ibryamov, Teodora Atanasova-Sartliiska,
	Galina Yordanova, Alex Georgiev
15:00-	O-P-7 Superscaling analysis of inclusive electron and (anti)neutrino scattering within
15:15	the coherent density fluctuation model
	Martin Ivanov, Anton Antonov
Coffee brea	ık

Section: Ecology and Environmental Protection Hall 4

Chairman	une 13th
	a: Assist. Prof. Miroslav Ivanov
13:30- 13:45	O-EEP-1 Invasive alien freshwater fish species in Black Sea rivers and coastal lakes Luchezar Pehlivanov, Stefan Kazakov, Tihomir Stefanov, Teodora Trichkova
13:45-	O-EEP-2 Development of Asphalt Concrete Production Technologies Using Ash Residues
14:00	from Thermal Power Plants and Oil Waste
11.00	
	Zhangyl Abilbek ,Panabek Tanzharikov, Koktem Yerimbetov, Nurzhan Suleymenov and
	Saken Seitzhanov
14:00-	O-EEP-3 External moss walls: from the inside out
14:15	Gana Gecheva, Zhana Petkova, Stoyan Damyanov, Deyana Georgieva, Vesselin Baev,
	Mariyana Gozmanova, Elena Apostolova, Galina Yahubyan
14:15-	O-EEP-4 Comparison of the density and biomass of macrobenthic communities from two
14:30	regions of Marine Antarctic
	Lyubomir Kenderov, Eli Mincheva, Raina Hristova
14:30-	O-EEP-5 Development of an efficient "Compact module for filter water"
14:45	Polvon Sharipov, Khasan Khasanov
14:45-	O-EEP-6 A new metric for ecological status assessment of standing water bodies in
15:00	Bulgaria
	Emilia Varadinova, Georg Wolfram, Violeta Tyufekchieva, Yanka Vidinova, Rabia Soufi,
	Monika Grossschartner
15:00-	O-EEP-7 Macrophyte-Based Assessment of Upland Rivers: Reference Index and Pollution
15:15	Index
10110	
15:15-	Silviya Stankova, Gana Gecheva
15:15- 15:30	O-EEP-8 Risk Assessment in Oil and Gas Production: A Case Study of the Kyzylorda
13:30	Region
	Zhangyl Abilbek, Panabek Tanzharikov, Aidana Nurman, Aigul Erzhanova, Nurlybek
	Akhmetov
Coffee bro	
Chairmai	n: Assit. Prof. Veselina Dalgacheva
15:45-	O-EEP-9 Impact of coal fired power plant activity on the ecological status of the river
16:00	ecosystems: Case study of Sokolitsa River, Bulgaria
	Vanina Mitseva. Tsevetila Isheva. Mila Ihtimanska. Emilia Varadinova
16:00-	Vanina Mitseva, Tsevetila Isheva, Mila Ihtimanska, Emilia Varadinova O-EEP-10 Herpetofauna in the Northwestern Footbills of the Pirin Mountains
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16:15 16:15- 16:30 16:30- 16:45- 17:00- 17:15- 17:15- 17:30	O-EEP-10 Herpetofauna in the Northwestern Foothills of the Pirin Mountains Aleksander Pulev, Emanuil Mitrevichin, Lidia Sakelarieva, Hristo Peshev, Krasimir Stoyanov, Galina Bezinska O-EEP-11 Remote sensing based burn severity mapping and assessing post-fire impacts on forests vegetation in three cases of forest fires in Bulgaria Miroslav Ivanov, Konstantin Tyufekchiev, Veselina Dalgacheva O-EEP-12 Remote sensing based assessment of water quality in the Nador lagoon, Morocco Miroslav Ivanov, Emilia Varadinova, Veselina Dalgacheva, Ouiam El Mekki, Konstantin Tuefekchiev O-EEP-13 First Records of Autumn Activity of Xerotyphlops vermicularis (Merrem, 1820 (Reptilia: Typhlopidae) in Bulgaria Aleksander Pulev, Lidia Sakelarieva, Krasimir Stoyanov, Emanuil Mitrevichin O-EEP-14 New Records of Winter Activity of Mediodactylus kotschyi (Steindachner, 1870) (Reptilia: Gekkonidae) in Bulgaria Aleksander Pulev, Lidia Sakelarieva, Krasimir Stoyanov, Hristo Peshev, Daniel Bisset, Emanuil Mitrevichin O-EEP-15 Trail cameras based estimation of the brown bear (Ursus arctos Linnaeus, 1758) density in one isolated part of Rila National Park Miroslav Ivanov, Georgi Manolev, Veselina Dalgacheva
16:15 16:15- 16:30 16:30- 16:45 16:45- 17:00- 17:15- 17:15- 17:30-	O-EEP-10 Herpetofauna in the Northwestern Foothills of the Pirin Mountains Aleksander Pulev, Emanuil Mitrevichin, Lidia Sakelarieva, Hristo Peshev, Krasimir Stoyanov, Galina Bezinska O-EEP-11 Remote sensing based burn severity mapping and assessing post-fire impacts on forests vegetation in three cases of forest fires in Bulgaria Miroslav Ivanov, Konstantin Tyufekchiev, Veselina Dalgacheva O-EEP-12 Remote sensing based assessment of water quality in the Nador lagoon, Morocco Miroslav Ivanov, Emilia Varadinova, Veselina Dalgacheva, Ouiam El Mekki, Konstantin Tuefekchiev O-EEP-13 First Records of Autumn Activity of Xerotyphlops vermicularis (Merrem, 1820 (Reptilia: Typhlopidae) in Bulgaria Aleksander Pulev, Lidia Sakelarieva, Krasimir Stoyanov, Emanuil Mitrevichin O-EEP-14 New Records of Winter Activity of Mediodactylus kotschyi (Steindachner, 1870) (Reptilia: Gekkonidae) in Bulgaria Aleksander Pulev, Lidia Sakelarieva, Krasimir Stoyanov, Hristo Peshev, Daniel Bisset, Emanuil Mitrevichin O-EEP-15 Trail cameras based estimation of the brown bear (Ursus arctos Linnaeus, 1758) density in one isolated part of Rila National Park
16:15 16:15- 16:30 16:30- 16:45- 17:00- 17:15- 17:15- 17:30	O-EEP-10 Herpetofauna in the Northwestern Foothills of the Pirin Mountains Aleksander Pulev, Emanuil Mitrevichin, Lidia Sakelarieva, Hristo Peshev, Krasimir Stoyanov, Galina Bezinska O-EEP-11 Remote sensing based burn severity mapping and assessing post-fire impacts on forests vegetation in three cases of forest fires in Bulgaria Miroslav Ivanov, Konstantin Tyufekchiev, Veselina Dalgacheva O-EEP-12 Remote sensing based assessment of water quality in the Nador lagoon, Morocco Miroslav Ivanov, Emilia Varadinova, Veselina Dalgacheva, Ouiam El Mekki, Konstantin Tuefekchiev O-EEP-13 First Records of Autumn Activity of Xerotyphlops vermicularis (Merrem, 1820 (Reptilia: Typhlopidae) in Bulgaria Aleksander Pulev, Lidia Sakelarieva, Krasimir Stoyanov, Emanuil Mitrevichin O-EEP-14 New Records of Winter Activity of Mediodactylus kotschyi (Steindachner, 1870) (Reptilia: Gekkonidae) in Bulgaria Aleksander Pulev, Lidia Sakelarieva, Krasimir Stoyanov, Hristo Peshev, Daniel Bisset, Emanuil Mitrevichin O-EEP-15 Trail cameras based estimation of the brown bear (Ursus arctos Linnaeus, 1758) density in one isolated part of Rila National Park Miroslav Ivanov, Georgi Manolev, Veselina Dalgacheva

Geography Hall 3

Thursday	, June 12 th
	: Assist. Prof. Vladimir Karadzhov
13:30-	0-G-1 Spatial Analysis of Employment and the Working Poor
13:45	Aleksandra Ravnachka, Velimira Stoyanova, Boris Kazakov, Poli Roukova, Emilia
	Patarchanova
13:45-	0-G-2 Health status and integration of the Roma into the healthcare system of
14:00	Bulgaria
	Boris Kazakov, Aleksandra Ravnachka, Velimira Stoyanova
14:00-	0-G-3 Social policy and the working poor in the context of regional demographic
14:15	characteristics in Bulgaria
	Gergana Nikolova, Emilia Patarchanova, Alexandra Ravnachka, Miroslav Ivanov, Vasil
	Pandurski, Boris Kazakov
14:15-	0-G-4 Mapping and spatial analysis of vertical relief reshaping in the landslide near
14:30	the village of General Geshevo (Eastern Rhodopes)
	Alexander Gikov, Stelian Dimitrov, Martin Iliev
14:30-	0-G-5 Integrating GIS in Water Resources Governance for Regional Sustainability: A
14:45	Case Study from Blagoevgrad Province, Bulgaria
	Galina Bezinska, Siyka Keseva, Krasimir Stoyanov
14:45-	0-G-6 GIS and Internet of Things
15:00	Matija Milić
15:00-	0-G-7 A socio-geographical analysis of demographic aging in Bulgaria and Italy at the
15:15	Nuts II level
	Dimitar Simeonov
Coffee bre	
	: Assist. Prof. Miroslav Ivanov
15:45-	O-G-8 Heavy metal content in bottom sediments of the Arda River basin upstream of
16:00	the Kardzhali Dam
	Zornitza Cholakova
16:00-	0-G-9 Spatial and temporal analysis of the distribution of copper in soils affected by a
16:15	long-term impact of copper smelter
	Nadezhda Nikolova, Miglena Zhiyanski
16:15-	O-G-10 Morphological and Hydrological Features of the Krajiste Region (Southeastern
16:30	Serbia)
	Milena Milenova; Krasimir Stoyanov; Galina Bezinska
16:30-	0-G-11 Climatic Characteristics of the Krajiste Region (South-east Serbia) and Their
16:45	Impact on Relief and Geomorphological Processes
	Krasimir Stoyanov; Milena Milenova; Galina Bezinska
16:45-	0-G-12 An overview of European geographical research on natural borders and their
17:00	effects
	Marina Pehlivanova
17:00-	0-G-13 Virtual Tourism as a Tool for Enhancing Destination Accessibility and
17:15	Sustainability
	Vladimir Karadzhov, Emilia Patarchanova
17:15-	O-G-14 Contemporary tourism-geographical development of Karlovy vary – a
17:30	comprehensive model for sustainable development
	Maria Nosikova
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Friday, June 13th	
Chairman:	Assoc. Prof. Aleksandra Ravnachka
13:30-	O-G-15 Geography of the transport system in the academic field of the Velikotarnovski
13:45	geographical school
	Emel Bilyalova
13:45-	O-G-16 Classification of Rural Areas in Southwest Planning Region in Bulgaria Based
14:00	on Socioeconomic Development Criteria
	Krasina Radomirska, Plamen Patarchanov
14:00-	O-G-17 Social Processes in the Border Municipalities of the Southwest Region in
14:15	Bulgaria
	Vasil Pandurski
14:15-	O-G-18 Household well-being and the risk of poverty
14:30	Emilia Patarchanova, Gergana Nikolova, Aleksandra Ravnachka, Veselina Dalgacheva,
	Vladimir Karadzhov
14:30-	O-G-19 Foreign Direct Investment in the Trakia Economic Zone: Models and Economic
14:45	Effects
	Olga Gavrilova
14:45-	O-G-20 The Policy of the European Union for the Development of the Agricultural
15:00	Sector in Rural Areas.
	Valentin Shlyakov
15:00-	0-G-21 Conditions, factors and spatial organization of viticulture in Pazardzhik region
15:15	Doycho Vaklinov
Coffee break	

Section: Mathematics Hall 5

Thursday, June 12 th	
	Prof. DSc Peter Boyvalenkov
13:30-	O-M-1 An algebraic approach for construction of (t, s)–sequences
13:45	Vassil Grozdanov, Vesna Dimitrievska-Ristovska, Petar Sekuloski
13:45-	O-M-2 Multidimensional Quasi-Monte Carlo integration in weighted anchored Sobolev
14:00	spaces
	Vassil Grozdanov, Elmi Shabani
14:00-	O-M-3 The Erdös-Turàn-Koksma inequality in Cantor systems
14:15	Atidzhe Hodzhova, Vassil Grozdanov
14:15-	O-M-4 About a new view on the golden ratio
14:30	Mikhail Kolev, Stanislava Stoilova
14:30-	O-M-5 On some methods of calculation of specific types of integrals
14:45	Mikhail Kolev, Stanislava Stoilova, Yana Vasileva
14:45-	O-M-6 Criterion of connectedness by clopen coverings
15:00	Zoran Misajleski
15:00-	O-M-7 On sequence convergence in $(3,j)$ -metric spaces, $j \in \{1,2\}$
15:15	Tomi Dimovski, Dončo Dimovski, Pavel Dimovski
15:15-	O-M-8 Some asymptotic results for the generalized directional short-time Fourier
15:30	transform with fixed direction
	Jasmina Veta Buralieva
Coffee bre	
	Prof. Dr. Mikhail Kolev
16:00-	O-M-9 Simulations of Electoral Systems: How Different Methods of Vote Allocation
16:15	Affect Political Representation
	Georgi Bratkov, Boyana Garkova
16:15-	O-M-10 On Some Applications of Second-Order Linear Differential Equations in
16:30	Economy
	Sashka Kandilarova
16:30-	O-M-11 Estimation of the difference between continuous and impulsive models
16:45	Tzanko Donchev, Nikolay Kitanov, Saba Iftikhar, Dimitar Kolev, Boyana Garkova
16:45-	O-M-12 Existence and stability for a parabolic initial and boundary value problem
17:00	Tzanko Donchev, Boyana Garkova, Saba Iftikhar, Dimitar Kolev, Nikolay Kitanov
17:00-	O-M-13 Attractors of M-Dissipative Evolution Inclusions
17:15	Tzanko Donchev, Iveta Nikolova, Nikolay Kitanov, Alina I. Lazu
17:15-	O-M-14 Mixed Semicontinuous Riemann-Liouville Evolution Inclusions
17:30	Tzanko Donchev, Boyana Garkova, Alina I. Lazu, Iveta Nikolova
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Friday, June 13th	
Chairman: Assoc. Prof. DSc Vassil Grozdanov	
16:45-	O-M-15 Tolerance and Interval Graphs for Strategic Planning During Health Crises
17:00	Limonka Koceva Lazarova, Natasa Stojkovik, Aleksandra Stojanova Ilievska, Marija
	Miteva, Dusan Bikov
17:00-	O-M-16 Graph Theory Applications in Investment Analysis and Risk Modeling
17:15	Limonka Koceva Lazarova, Anastasija Antova, Natasa Stojkovik, Aleksandra Stojanova
	Ilievska, Vasko Kokalanov
17:15-	O-M-17 One More Result on Products of Distributions in Colombeau Algebra
17:30	Marija Miteva, Limonka Koceva Lazarova, Biljana Zlatanovska
17:30-	O-M-18 Persistent Homology-Based Regime Detection for Time Series Forecasting
17:45	Petar Sekuloski, Vesna Dimitrievska Ristovska

Section: Informatics Hall 5

Friday, June 13th		
Chairma	Chairman: Assoc. Prof. Irena Atanasova	
13:30-	O-I-1 Integrating Exon–Gene Structure into Neural Architectures for RNAseq Classification	
13:45	Aleksandar Jovanović, Michael Sammeth	
13:45-	O-I-2 Applications of Machine Learning Algorithms	
14:00	Eyal Sadeh	
14:00-	O-I-3 Comparative Analysis of Classification Algorithms on Big Datasets using WEKA	
14:15	Aleksandar Stoimenovski, Irena Atanasova	
14:15-	O-I-4 The Accessibility Impact from Changing Existing Schools into Experimental Schools	
14:30	without the Establishment of New Schools: Analyzing Kindergarten and Primary Schools of	
	Florina, Greece, a Case Study	
	Irena Atanasova, Ilias Solakis	
14:30-	O-I-5 Some Robotic Process Automation (RPA) Use Cases and Applications in Financial	
14:45	Industry	
	Vladislav Yurukov, Irena Atanasova	
14:45-	O-I-6 Data mining - based predicting of students' evaluation and students' acceptance of	
15:00	Distance E-learning. Case study: South-West University "Neofit Rilski"	
	Irena Atanasova	
Coffee b	reak	
	n: Assoc. Prof. Nadezhda Borisova	
15:30-	O-I-7 Collaborative mindset and AI empowered Knowledge Management	
15:45	Vladislav Yurukov, Irena Atanasova	
15:45-	O-I-8 Numerical solution of some facility location and inventory control problems	
16:00	Stefan Stefanov	
16:00-	O-I-9 Analysis of data mining algorithms for predicting physical activity of urban populations	
16:15	Irena Atanasova, Svetoslav Petkov	
16:15-	O-I-10 Enhancing Computational Thinking and Code Comprehension through Advanced	
16:30	Parsons Puzzles	
	Ivo Damyanov, Martin Madzhov	

Section: Methodology in Education Conference Hall

Thursday	7, June 12 th
	n: Assist. Prof. Dr. Damyana Grancharova
13:30-	O-ME-1 STEAM: learning content development, how to use it, difficulties
13:45	Ginka Exner
13:45-	O-ME-2 Distance and Independent Learning Contents in a Digital Environment
14:00	Juraqulova Zulayxo Ixtiyor, Boboev Abrorjon Khotamovich, Toshniyozova Farangiz Burxon
14:00-	O-ME-3 Application of Metacognitive Strategies and Artificial Intelligence in the Learning
14:15	Process
	Lyuba Petrova
14:15-	O-ME-4 Continuity issues in the content of the chemistry course between secondary
14:30	school and university
	A.B. Toibazarova, N.O. Appazov
14:30-	O-ME-5 Cross curricular relationships in teaching mathematics and informatics in
14:45	lower secondary school
	Mediha Topalova, Daniela Tuparova
14:45-	O-ME-6 Methods for Introducing Optimization Algorithms and Mathematical Modeling
15:00	into the High School Mathematics Curriculum (Grades 8–10) through Interactive
	Platforms – Wolfram Alpha and Matlab
	Elitsa Atanasova, Feim Musankov
15:00-	O-ME-7 Trakya University STEM Innovation Lab: Philosophy, Structure, Projects, and
15:15	Future Vision
	Sertaç Arabacioğlu, Eylem Bayir
15:15-	O-ME-8 Modeling with scratch for solving movement problems at the lower gymnasium
15:30	level
	Rositsa Georgieva
Coffee b	reak
Chairma	n: Assist. Prof. Aleksandra Tencheva
16:00-	O-ME-9 Interactive Learning with Virtual Reality and 3D Printing
16:15	Damyana Grancharova
16:15-	O-ME-10 Non-formal style in mathematics teaching
16:30	Nataliya Pavlova
16:30-	O-ME-11 Integrating Sudoku into 5th grade mathematics classes
16:45	Ivayla Gergova, Boyana Garkova
16:45-	O-ME-12 Prospective Teachers' Demographic Characteristics and Their Beliefs about
17:00	Their Preparedness to Teach Mathematics
	Metodi Glavche
17:00-	O-ME-13 The role of the competency-based approach in stem education
17:15	Krasimir Harizanov
17:15-	O-ME-14 Creative Activity in Food Industry Engineering
17:30	Rano Mirsamikova, Botir Usmonov
17:30-	O-ME-15 The implementation of stem education in the higher education system
17:45	Gulnora Aripova, Abror Boboev, Mahmuda Tadjibaeva
17:45-	O-ME-16 Application of a research approach in stem education
18:00	Sevinch Mustan
18:00-	O-ME-17 Challenges in Informatics Education: Analysis and Improvement Proposals
18:15	Samuil Zherev, Elena Karashtranova
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Special session Conference Hall

"Challenges and Opportunities for Implementing STEM Approaches in Secondary and Higher Education"

14.06.2025

10:00 – 12:00 12:00-12:30 Coffee break

POSTER SESSION

	Chemistry
P-C-1	Could an Aurophilicity play a role in dimeric Au (III) Diiminoisoindole Complexes? The Group 11 Complexes for the 11th FMNS!
P-C-2	Stanislava Majerova, Zdenka Ruzickova, Ales Ruzicka Positively charged heteroboranes: Synthesis and reactivity
1-0-2	Vlastimil Němec, Josef Holub, Maksim A. Samsonov, Jan Vrána, Aleš Růžička
P-C-3	Biosorption of industrial dyes by the dried and inactivated lichen Usnea barbata
	Katarina Stepić, Radomir Ljupković, Jovana Ickovski, Slobodan Ćirić, Aleksandra Dorđević, Tijana Jovanović, Aleksandra Zarubica
P-C-4	Ethnopharmacological applications of Salvia officinalis L. in the Niš district: Traditional use in oral health disorders
	Jovana Ickovski, Slobodan Ćirić1, Aleksandra Đorđević, Katarina Stepić, Radomir Ljupković, Marija Marković, Vesna Stankov Jovanović
P-C-5	Antimicrobial activity of Hypericum barbatum Jacq. essential oil
1 0 0	Aleksandra Đorđević, Goran Petrović, Jovana Ickovski, Radomir Ljupković, Jelena
D C C	Stamenković, Slobodan Ćirić, Katarina Stepić
P-C-6	Using innovative USB sensors in chemistry Aleksandra Tencheva, Elitsa Chorbadzhiyska
P-C-7	Characterization of electrocatalysts for cathodes in a microbial electrolysis cell Katerina Angelova, Yordan Angelov, Elitsa Chorbadzhiyska
P-C-8	Quantitative determination of calcium in the chicken eggshell by ICP-OES method Emilija Pecev-Marinković, Aleksandra Pavlović, Jelena Mrmošanin, Ivana Rašić Mišić, Enisa Selimović, Katarina Milenković, Stefan Petrović, Denis Mitov
P-C-9	DFT Study of the Thermodynamic Aspects of Lutein Oxidative Transformations V. Staykov, Zh. Velkov
P-C-10	Boron and Aluminum Complexes of Electronically Diverse Biguanide Ligand: Synthesis and Reactivity
P-C-11	Alena Hoffmannova, Lukas Vlk, Tomas Chlupaty, Zdenka Ruzickova, Ales Ruzicka Evaluation of Antioxidant Activity and Total Phenolic Content of Red and Green Pepper
F-C-11	(Capsicum annuum L.) Jelena Nikolić, Violeta Mitić, Milica D. Nikolić, Milijana Zlatković, Mihajlo Halilović, Milan
	Mitić, Vesna Stankov Jovanović
P-C-12	Assessment of the chemical composition and biological activity of essential oil from Bulgarian yarrow (Achillea millefolium)
	Krastena Nikolova, Natalina Panova, Anelia Gerasimova, Yulian Tumbarski, Ivan Ivanov, Ivayla Dincheva, Christina Tzvetkova6, Galia Gentscheva
P-C-13	Determination of Cd, Cu, and Zn in White, Integral, and Red Rice Varieties Using ICP-OES
	Stefan Petrović, Snežana Tošić, Milica Marković, Ava Amideina, Violeta Mitić, Jelena Nikolić, Vesna Stankov Jovanović
P-C-14	Impact of Wildfire on the Antioxidant Potential of Doronicum columnae: A Biochemical Assessment of Methanolic Extracts from Fire-Affected and Control Sites
	Vesna Jovanović, Jelena Nikolić, Marija Marković, Marija Ilić, Marija Dimitrijević, Milan Mitić, Violeta Mitić
P-C-15	Argan shell-derived carbon material as an efficient sorbent for water treatment Petranka Petrova, Elitsa Chorbadzhiyska, Maya Chochkova, Tarik Chafik, Katerina Angelova, Iradan Angelov, Carriero Haynin
P-C-16	Angelova, Jordan Angelov, Georgios Uzunis Design and multifunctional performance of a novel zinc-based MOF constructed from
	TCPT ligand Rusi Rusew, Hristina Lazarova, Magdalena Angelova, Vanya Kurteva, Rositsa Nikolova, Boris Shivachev
P-C-17	Mineral resource base of Uzbekistan for obtaining modern geopolymers
	Zebo Babakhanova, Shokhnoza Ruzimova
P-C-18	New cysteine derivatives with amantadine, rimantadine and memantine and evaluation of their chemical stability
	Antoniya Stoymirska, Kiril Chuchkov, Radoslav Chayrov, Ivanka Stankova

P-C-19	Chemical stability of new aminoadamantane analogues with N-acetylcysteine
	Antoniya Stoymirska, Kiril Chuchkov, Radoslav Chayrov, Ivanka Stankova
P-C-20	Double-layer leather handcraft belt: Design, Technology and Chemistry
	Mitko Stoev, D. Zheleva, N. Spasova
P-C-21	Substrates with natural zeolites and fertilizers for smart orchid cultivation
	Mitko Stoev, Elitsa Chorbadzhiyska
P-C-22	A Direct Microwave-Accelerated Wittig reaction for synthesis
	of substituted cinnamates
	Maya Chochkova, Ernst Lankmayr, Petranka Petrova, Tsenka Milkova
P-C-23	Synthesis, hydrolytic stability and antiviral studies of Sulfur-based anti-influenza drugs
	Maya Chochkova, Boyka Stoykova, Petranka Petrova, Nejc Petek, Martin Štícha, Jurij
	Svete, Lubomira Nikolaeva-Glomb, Yuhuan Li
P-C-24	Residual Deviations Analysis – A Powerful Calibration Linearity Criterion. Visual Test or
	Reliable Statistical Tool?
	Ava Amideina, Petko Mandjukov

	Physics	
P-P-1	Electron beam welding of titanium and aluminum alloys with a vanadium filler Darina Kaisheva, Georgi Kotlarski, Maria Ormanova, Vladimir Dunchev, Angel Anchev, Borislav Stoyanov, Stefan Valkov	
P-P-2	Investigation of laser produced noble metal-semiconductor nanostructures Mihaela Koleva, Anna Dikovska, Nikolay Nedyalkov, Tsanislava Genova	
P-P-3	All-optical characterization of the magnetic properties of nanocomposite bulk samples Elena Taskova, Svetoslav Kolev, Tatyana Koutzarova	
P-P-4	Crystallography and electrical impedance spectroscopy of TiO2 thin films deposited on Al substrates Daniela Stoeva, Georgi Kotlarski, Dimitar Dechev, Nikolay Ivanov, Stefan Valkov, Maria Ormanova, Valentin Mateev, Iliana Marinova	
P-P-5	Influence of diffusion on the propagation of optical beams in alkali metal vapors Nikola Nikolov, Stoyan Tsvetkov, Sanka Gateva	
P-P-6	Analysis of the decay of the ⁹ B nucleus in the dissociation of the ¹⁰ C nucleus <i>Ralitsa Stanoeva</i>	
P-P-7	Modeling in electrochemical characterization of electrode materials Pavel Chorbadzhiyski, Metodi Popstoilov, Elitsa Chorbadzhiyska	
P-P-8	Modeling in energy efficiency - autonomously powered systems Pavel Chorbadzhiyski, Metodi Popstoilov, Elitsa Chorbadzhiyska	
P-P-9	Stimulated Raman Scattering in quartz fibers around the point of zero dispersion Lyuben Ivanov	
P-P-10	Applicability of quartz for dosimetric purposes Ivana Fabijanikj Sandeva, Aleksandar Krleski, Lihnida Stojanovska-Georgievska, Margarita Ginovska, Hristina Spasevska	

Geography		
P-G-1	Anthropophysiological characteristics of the contemporary Bulgarian population in	
	Northeastern Bulgaria	
	Nadezhda Paraskova, Magdalena Pirinska – Apostolu	
P-G-2	Presence of wormian bones in adult human skulls from Late Roman period - Salona,	
	Dalmatia	
	Ralitsa Bogdanova, Magdalena Pirinska-Apostolu	
P-G-3	The influence of social factors on the physical development and maturation of girls (12-	
	16 years old) from Sliven district - Bulgaria	
	Pirinska - Apostolu Magdalena, Nadezhda Paraskova, Ralitsa Bogdanova	
P-G-4	Geographical studies of urbanization processes and their spatial organization in	
	Bulgaria	
	Evelina Filatova, Emilia Patarchanova	
P-G-5	Evaluating Urban Expansion Using a City-Scale Dasymetric Population Map: A Case	
	Study of Bursa, Türkiye	
	Mustafa Köse; Nilanchal Patel, Galina Bezinska	

Ecology and Environmental Protection		
P-EEP-1	First and confirmative records of four mayflies (Insecta: Ephemeroptera) from the Republic of North Macedonia	
	Biljana Rimcheska, Yanka Vidinova	
P-EEP-2	Optimizing nitrogen retention through novel magnesium-urea complexes: monitoring ammonia emissions in soil environments	
	Gergana Velyanova	
P-EEP-3	Some aspects of the chemical pollution from CFPPs of Razmetanitsa and Sokolitsa	
	rivers	
	Vanina Mitseva, Elena Karashtranova, Emilia Varadinova	
P-EEP-4	Monitoring European beech phenology in two long-term ecological research sites by	
	remote sensing	
	Svetoslav Anev, Sonya Damyanova	
P-EEP-5	Microbiological status of soils within the scope of the site Petrohan, LTER-BG	
	Bilyana Grigorova-Pesheva, Sonya Damyanova, Pavel Pavlov	
P-EEP-6	Data Fusion for Ecosystem Services Assessment: a Case Study in Bulgarian South-	
	western Rila Mountains	
	Kostadin Katrandzhiev, Kremena Gocheva, Radka Fikova, Svetla Doncheva	

	Mathematics
P-M-1	Obtaining an Analytical Solution of First-Order Differential Equations with ChatGPT Biljana Zlatanovska, Marija Miteva, Natasa Koceska, Saso Koceski, Limonka Koceva Lazarova, Mirjana Kocaleva Vitanova

	Informatics
P-I-1	Application of Computer Visualizations in Scientific Data Analysis Radoslav Mavrevski, Miglena Trencheva, Metodi Traykov, Tereza Trencheva, Ivan Trenchev
P-I-2	Adaptive Learning in Mixed Reality: New Horizons for Personalized Education Vladimir Angelov, Yana Karshiyska, Kamelia Shumanova, Borislav Zashev
P-I-3	Construction and optimization of the seventh-order polynomial convolutional interpolation 2P kernel Zoran Milivojevic, Nataša Savić, Bojan Prlinčević, Violeta Stojanović, Dijana Kostić

Methodology in Education	
P-ME-1	Robots and Reassurance: Teacher Insights into a New Curriculum for Anxiety-Free Math Learning Nadezhda Borisova, Elena Karashtranova, Ineta Helmane, Linda Daniela, Hasan Arslan, Yasemin Abalı Öztürk, Kadir Tunçer, Danguole Rutkauskiene, Kornelia Daukintyte, Aleksandra Zajac
P-ME-2	Chemistry - fun and interesting using STEM approaches Aleksandra Tencheva, Elitsa Chorbadzhiyska
P-ME-3	How Important is STEM Integration in Modern Teaching: Survey Insights Damyana Grancharova