

SOUTH-WEST UNIVERSITY NEOFIT RILSKY

66 "IVAN MIHAILOV" STR. 2700 BLAGOEVGRAD



PROGRAM

Sixth International Conference

FMNS-2015

10 - 14.06.2015, Blagoevgrad, BULGARIA

Conference is supported by the Ministry of Science and Education of Republic of Bulgaria

Patronized by
Prof. Ivan Mirchev, DSc
Rector of the South-West University
http://www.swu.bq

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MINI-CONFERENCE "INQUIRY-BASED APPROACH IN HIGHER EDUCATION IN MATHEMATICS AND INFORMATICS"

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GENERAL TOPICS:

Mathematics
Informatics
Computer Technologies
Geography, Ecology and Environment Protection
Physics and Technology
Chemistry
Methodology in Education

MINI-CONFERENCE "Inquiry-Based Approach in Higher Education in Mathematics and Informatics"

ROUND TABLE "Energy and Sustainable Development"

Sessions

13:30 - 15:00 15:30 - 17:00 University Conference Center "Bachinovo"

Official Dinner

20:00, 11.06.2015 University Conference Center "Bachinovo"

Cocktail Party 25-th Anniversary of Faculty of Mathematics and Natural Sciences 16:00, 12.06.2015

University Conference Center "Bachinovo"

Program Overview

Registration (10.06.2015)

13:00 - 18:30

University Conference Centre "Bachinovo"

Registration (11.06.2015)

08:00 - 10:30

University Conference Centre "Bachinovo"

Opening Ceremony

10:00 - 10:15

Central Auditorium of Conference Center Chairman: Assoc. Prof. Stefan Stefanov, PhD

Plenary Report (11.06.2015)

10:15 - 11:00

Central Auditorium of Conference Center

"The State of the Planet - a Look from Past to Future"

Acad. Prof. Todor Nikolov, DSc

Plenary Report (11.06.2015) 11:00-11:45

"Cooperation between the Joint Institute for Nuclear Research and the Republic of Bulgaria. Present and Future."

Prof. Latchesar Kostov, PhD

Plenary Report (11.06.2015) 11:45-12:30

"The Post-Normal Science: Features and New Trends"

Prof. Borislav Toshev, DSc

Plenary Report (11.06.2015) 12:30-13:15

"The basic features of the relief in Montenegro"

Prof. Predrag Djurovic, PhD

Mini-conference "Inquiry-Based Approach in Higher Education in Mathematics and Informatics"

Conference Hall, 14.00 – 18.00, 11.06.2015

Round Table (12.06.2015) 10:45 – 13:00 Hall 4 Energy and sustainable development

25-th Anniversary of Faculty of Mathematics and Natural Sciences Central Auditorium, 14.00 – 16.00, 12.06.2015

Section: Mathematics and Informatics Hall 11

Thursda	ay, June 11	
	n: Assoc. Prof. Slavcho Shtrakov	
14:00-	Using CLIPS to Realize Quality of Life Expert System (QLIFEX)	
14:15	Irena Atanasova	
14:15-	Mathematical model of visceral leishmaniasis: Biological sense of	
14:30	threshold conditions	
	Muhammad Zamir, Gul Zaman, Ahmed Elaiw	
14:30-	Surface fitting of the results of molecular docking and the biological	
14:45	activity of δ-selective enkephalin analogues	
	Fatima Sapundzhi, Tatyana Dzimbova, Nevena Pencheva, Peter	
	Milanov	
14:45-	Semi-canonical binary matrices	
15:00	Krasimir Yordzhev	
15:00-	Mathematical modelling of biomechanical relationships of flexors and	
15:15	extensors	
	Gergana Koroleova, Iliya Kanelov, Stefan Stefanov, Nevena Pencheva	
15:15- 15:30	On the Classification of the Boolean Functions	
	Slavcho Shtrakov, Ivo Damyanov	
15:30-	On a Mathematical Model Describing the Adaptive Immune Response to	
15:45	Viral Infection	
	Anka Markovska	
15:45- 16:00	Evolution computing	
	Asen Tochev	
16:00-	Building Real-Time Web Applications with SignalR and NoSQL	
16:15	Databases	
	Iliya Nedyalkov, Ivo Damyanov	
16:15-	Reduced Differential Transform Method For Harry Dym Equation	
16:30	Sema Servi, Yildiray Keskin, Galip Oturanc	
Coffee bi	Coffee break	

Section: Mathematics and Informatics Hall 11

Thursday, June 11	
Chairman: <i>Prof. Donco Dimovski</i>	
17:00-	New approach for numerical solution of non-Newtonian Nanofluid Flow
17:15	between two vertical plates.
	Murat Gubes, Galip Oturanc
17:15-	Some properties concerning (3,2,rho)-K-metrizable spaces
17:30	Tomi Dimovski, Donco Dimovski
17:30-	SEPARATION PROPERTIES FOR SOME TOPOLOGIES INDUCED
17:45	BY (3,j,ρ)-METRICS, j∈{1,2}
	Sonja Čalamani, Tomi Dimovski, Dončo Dimovski
17:45-	A REVIEW ON APPLICATIONS OF GRAPH THEORY IN NETWORK
18:00	ANALYSIS
	Besjana Tosuni
18:00-	A COMPARISON OF BLOCK BOOTSTRAP PROCEDURES FOR
18:15	PERIODIC TIME SERIES
	Lorena Margo, Lorenc Ekonomi, Eljona Milo
18:15-	A Clustering Based Iterative Forward Search Algorithm to University
18:30	Course Timetabling Problem
	Velin Kralev, Radoslava Kraleva
18:30-	The hybrid weighted diaphony
18:45	Vassil Grozdanov, Silviya Baycheva

Section: Mathematics and Informatics Hall 11

Friday, Ju	Friday, June 12	
Chairman:	Assoc. Prof. Vasil Grozdanov	
09:00-	A characterization of generalized (m+k,m)-rectangular bands	
09:15	Valentina Miovska, Donco Dimovski	
09:15-	Investigation of the Role of Matrix Degradative Enzymes on the	
09:30	Migration of Tumor Cells	
	Mikhail Kolev, Boiana Garkova	
09:30-	Optimization model of loan portfolio	
09:45	Krasimira Stoyanova	
09:45-	Extremal graphs for general sum-connectivity index with \$\alpha>1\$	
10:00	Rozica-Maria Tache	
10:00-	Risk analysis with R Language	
10:15	Metodi Traykov, Miglena Trencheva, Ivan Todorin, Radoslav	
	Mavrevski, Anton Stoilov, Ivan Trenchev	
10:15-	Solution to Discrete Exterior Dirichlet Problem of Gravitational Potential	
10:30	Determination to Real Geometries	
	Elena Kotevska, Willi Freeden	
10:30-	The weighted \$({\cal W}(b);\alpha;\beta;\gamma)\$- diaphony	
10:45	Silviya Baycheva	
Coffee bre	ak	

Section: Mathematics and Informatics Hall 11

Friday, June 12	
Chairman	n: Assoc. Prof. Vasil Grozdanov
11:00-	On an Error-Detecting Code Based on Linear Quasigroups
11:15	Natasha Ilievska, Danilo Gligoroski
11:15-	Quasi components in dynamical systems
11:30	Martin Shoptrajanov, Zoran Misajleski, Gorgi Markovski, Nikita Shekutkovski
11:30-	A note on the analytic representations of sequences in space
11:45	Vesna Manova-Erakovik, Vasko Reckovski
11:45-	Valuation of dependencies at a given intensity of model elements
12:00	Julian Dimitrov
12:00-	Study of random mosaics applicable in crack patterns designing
12:15	Julian Dimitrov
12:15-	A Publicly Available Cross-Platform Lemmatizer for Bulgarian
12:30	Grigor Iliev, Nadezhda Borisova, Elena Karashtranova, Dafina Kostadinova
12:30-	Evaluation of the Accuracy of the BGLemmatizer
12:45	Elena Karashtranova, Grigor Iliev, Nadezhda Borisova, Yana
	Chankova, Irena Atanasova
12:45-	Measurement of physical values with embedded computer systems
13:00	Anton Stoilov
13:00-	A Microcomputer data-acquisition system for real-time processing of
13:15	measured data
	Anton Stoilov
13:15-	Investigation of the inter-speaker variations to the acoustic
13:30	characteristics of phonemes in Bulgarian language in children from 3 to
	7 years
	Radoslava Kraleva

Section: Computer systems and Engineering Hall 8

Friday, June 12		
Chairman	Chairman: Assoc. Prof. Valentin Hristov	
12:00-	Numerical modeling and computer simulations of voltage resonance.	
12:15	Vasil Milovanski, Nely Georgieva, Gergana Kalpachka	
12:15-	Output signal of eddy current transducers with non-classical coil shape	
12:30	during ferromagnetic objects investigation	
	Valery Ivanov	
12:30-	Developing a Decoder in VHDL – a PLD Programming Laboratory	
12:45	Exercise	
	Valeri Vachkov, Iliya Tinyokov	
12:45-	FPGAs and Wavelets on Circuit Testing based on Current Signal	
13:00	Measurements	
	Sotirios Pouros, Vassilios Vassios, Dimitrios Manolakis, Georgios	
	Bamnios, Alkis Hatzopoulos, Valentin Hristov, Dimitrios Papakostas	

Section: Physics and Technologies Hall 9

Thursday, J	Thursday, June 11	
13:45- N 14:00 m	lecessity for training of experts on energy efficiency and energy nanagement Plamen Gramatikov	
14:15 S	C – ray and neutron diffraction of TiAl alloys Stefan Valkov, Dimitar Neov, Anatoly Beskrovny, Denis Kozlenko, Peter Petrov	
14:30 b	Study of microstructural changes and residual stresses in electron eam welding of alloyed steels Darina Kaisheva, Gizo Bokuchava, Igor Papushkin, Peter Petrov	
14:30- 14:45 h N	Study of thermal processes in electron beam surface modification of ot-work tool steels Maria Ormanova, Peter Petrov, Vladimir Angelov, Dimitar Dechev, likolai Ivano	
	ocal distortion caused by the domain wall microscopic inhomogeneity likhail Akimov, Petr Polyakov, Ilya Gyudzhenov, Marek Tassev	
15:00- E	nergy Potential of Agricultural Crops in Kosovo Plamen Gramatikov, Naser Sahiti, Avni Sfishta	
15:15- E	nergy Saving Potential in Public Buildings in Kosovo Plamen Gramatikov, Avni Sfishta, Naser Sahiti	
15:45 P	On Damping of Spin Waves in Plasma Peter A. Polyakov, Natalya E. Rusakova, Yuliya V. Samukhina, Nikita I. Samsonov, Iliya Gyudzhenov, Marek Tassev	
16:00 C	Comparative study of two bioimpedance analyzers of body mass omposition assessment Miglena Tsvetkova, Nevena Pencheva, Dimitrina Kerina	
16:00- V 16:15 3	13следване на гъби манатарки в района на Югозападна България а наличие на естествени и техногенни радиоактивни вещества Іюбомир Диреков	
16:15- A	ngular correlations of relativistic 8B→ 2He+H fragmentation Ralitsa Stanoeva, Simeon Stanoev	
Coffee break	Coffee break	

Section: Physics and Technologies Hall 9

Thursday	Thursday, June 11	
Chairman	Chairman: Assoc. Prof. Stanko Shtrakov	
17:00	An electric pulse plant for technogenic waste processing	
17:15	Ayan Khassenov, Mitko Stoev, Galia Abdykova	
17:15-	Research the processes of heat exchangers of the soil of different	
17:30	humidities	
	Kappas Kussaiynov, Nurgul Shuyushbayeva, Stoev Mitko	
17:30-	THE RESEARCH OF AERODYNAMIC CHARACTERISTICS OF A	
17:45	ROTATING CYLINDER WITH VARIABLE CROSS SECTION	
	Kappas Kussaiynov, Natalia Tanasheva, Stoev Mitko	
17:45-	Upgrate of the lead-free neutron monitor at BEO-Moussala	
18:00	Assen Tchorbadjieff, Ivo Angelov, Todor Arsov, Christo Angelov, Nina	
	Nikolova, Aneta Boyadjieva	
18:00-	Upgrate of the data acquisition system of the muon telescope at BEO-	
18:15	Moussala	
	Ivo Angelov, Assen Tchorbadjieff, Svetla Dimitrova	
18:15-	All-Optical Fiber Compressor	
18:30	Luben Mihov	
18:30	Study of thermal processes in electron beam surface modification of	
18:45	hot-work tool steels	
	Maria Ormanova, Peter Petrov, Vladimir Angelov, Dimitar Dechev,	
	Nikolai Ivanov	
18:45-	APPLICATION OF INDUSTRIAL WOOD RESIDUES FOR COMBINED	
19:00	HEAT AND POWER PRODUCTION	
	Anna Majchrzycka	
19:00-	Upgrade of the experimental setup for the study of water and aquous	
19:15	solutions, A. Antonov, D. Manolev, K. Damov, S. Filatov	

Section: Chemistry Hall 3

Thursday, June 11	
Chairman:	Assoc. <i>Prof. Atanas Chapkanov</i>
14:00	The Dawn of Organometallic Chemistry
14:45	Petr Stepnicka - Plenary lecture
14:45	Synthesis of fluorinated hydroxycinnamoyl derivatives of anti-
15:00	influenza drugs and their biological activity
	Boyka Stoykova, Maya Chochkova, Galya Ivanova, Lubomira
	Nikolaeva-Glomb, Nadya Nikolova, Pavel Vojtíšek, Tsenka Milkova,
	Martin Štícha, David Havlíček, Luchia Mukova
15:00	Synthesis and antiviral activity of the some amino acids derivatives of
15:15	influenza virus drugs
	Radoslav Chayrov, Ivanka Stankova
15:15	New derivatives of oseltamivir with bile acids
15:30	Kiril Chuchkov, Silvia Nakova, Lucia Mukova, Angel Galabov, Ivanka
	Stankova
15:30	Monohydroxy flavones part IV: Charge distributions
15:45	Maria Vakarelska-Popovska, Zhivko Velkov
15:45	Leu-Arg analogues- synthesis, IR characterization and docking
16:00	studies
	Tatyana Dzimbova, Atanas Chapkanov, Tamara Pajpanova
16:00	New approach for the synthesis of stapled peptides
16:15	Aleksandra Kalistratova, Gilles Subra, Muriel Amblard, Emilia
	Naydenova, Jean Martinez
16:15	Modified quechers method for determination of methomyl, aldicarb,
16:30	carbofuran and propoxur in liver
	I. Stoykova, T. Yankovska-Stefenova, L.Yotova, D.Danalev
Coffee brea	k

Section: Chemistry Hall 3

Thursday, June 11	
Chairman: Assoc. Prof. Zhivko Velkov	
16:45	Effect the toluene in the liver
17:00	Yana Koleva, Yordanka Tasheva
17:00	Synthesis of 2-fluoromethyl-7-(arylsulfanylmethyl)naphthalenes
17:15	Jane Bogdanov
17:15	3-amino-1,2,4-triazine – A promising starting material for preparation
17:30	of a novel class of NLO-active compounds.
	Matouš Kloda, Ivana Císařová, Tomáš Janda, Petr Němec, Ivan
	Němec
17:30	Lactobacillus plantarum AC 11 as a biocatalyst in microbial
17:45	electrolysis cell
	Elitsa Chorbadzhiyska, Yolina Hubenova, Sophia Yankova, Dragomir
	Yankov, Mario Mitov
17:45	Sediment Microbial Fuel Cells as Power Sources for Small Electrical
18:00	Consumers
	Ivo Bardarov, Yolina Hubenova, Mario Mitov
18:00-	Organic compounds as inhibitors for mild steel in 1 M H2SO4
18:15	Temenujka Haralanova, Christian Girginov
18:15	Bilingual course in Biotechnology- Interdisciplinary model
18:30	Kolarsky, V., Marinkova, D., Raykova R., Danalev D., Terzieva, S.

Section: Chemistry Hall 3

Friday, June 12			
Chairman	Chairman: Assoc. Prof. Petko Mandjukov		
09:00	Microbial XXX Cells – Innovative Multipurpose Bioelectrochemical		
09:15	Systems Mario Mitov, Yolina Hubenova		
09:15	Molecular Crystals for Non-Linear Optics and Their Phase		
09:30	Transformations		
	Ivan Nemec, Irena Matulkova, Ivana Cisarova, Premysl Vanek		
09:30-	Nanofiber materials simultaneously photogenerating NO and 1O2		
09:45	species		
	Jiří Dolanský, Jiří Mosinger		
09:45-	Studying the process of antimony deposition with calcium carbonate		
10:00	Khylysh Beisenovich Omarov, Assel Siyazova		
10:00	New magnetic catalyst: nanocrystaline CoFe2O4 in CeO2 matrix		
10:15	Jiri Plocek, Ondrej Vik, Alice Mantlikova, Jana Vejpravova, Jitka		
	Vecernikova		
10:15	Investigation of the etherification process under model mixture		
10:30	Yordanka Tasheva		
Coffee br			
	: Assoc. Prof. David Havlíček		
10:45	Solid phase extraction of Au (III) using silica gel modified by		
11:00	4-aminoantipyrine schiff base		
44.00	Petranka Petrova, Irina Karadjova, Maya Chochkova, Ivanka Dakova		
11:00 11:15	The Coordination and Catalytic Chemistry of a Phosphinoferrocene		
11.15	Nitrile		
	Karel Skoch, Petr Stepnicka		
11:15	Pd-Au nanocomposites as anodic electrocatalysts for direct borohydride		
11:30	fuel cell		
	Georgi Hristov, Elitsa Chorbadzhiyska, Mario Mitov		
11:30	Inductively coupled plasma optical emission spectroscopy –		
11:45	determination of rare earth and platinum group of elements		
	Nikolaya Velitchkova, Petranka Petrova, Serafim Velitchkov, Nonka		
	Daskalova		
11:45	Materials for EMI shielding		
12:00	Ljudmila Taneva, Kamelia Ruskova, Alexandar Lirkov		

Section: Geography, Ecology and Environment protection Hall 7

T11.	maii /	
	Thursday, June 11 Ivan Drenovski	
	: Assoc. Prof. Ivan Drenovski	
14:00-	Study of solid fraction of the atmospheric aerosol from Pilsen by X-ray	
14:15	powder diffraction, Ondřej Vik, David Havlíček	
14:15-	Detail analysis of the regime and territorial extend of extreme	
14:30	temperatures in Bulgaria, Krasimir Stoyanov, Lyubomira Guneva	
14:30-	Exploration of the landslide processes in the are of Delvino village,	
14:45	Blagoevgrad county, Miroslav Ivanov	
14:45-	The appreciation of the content of zinc in soils of Central Kazakhstan	
15:00	Manara Mukasheva, Aidar Aitkulov	
15:00-	Opportunities for maintaining and enhancing soil fertility for the	
15:15	municipality of Kyustendil, Boyko Kolev	
15:15-	New Localities of the Balkan Stream Frog Rana graeca Boulenger,	
15:30	1891 (Anura: Ranidae) in South-West Bulgaria	
	Alexander Pulev, Lidia Sakelarieva, Georgi Manolev	
15:30-	Some Data about Herpetofauna and Avifauna in Nature Park Belasitsa,	
15:45	Alexander Puley, Lidia Sakelarieva, Nevena Malakova, Lilia Filipova,	
	Nelina Aleksieva	
Coffee bre	eak	
Chairman:	Assoc. prof. Krasimir Stoyanov	
16:15-	Spatial models for the development of Europe - attesting the most	
16:30	popular concepts, Hristo Dokov, Ivaylo Stamenkov	
16:30-	Successful integration of transport networks of Balkan countries –	
16:45	mission impossible?, Dessislava Poleganova	
16:45-	Quantitative assessment of the Bulgarian-Greek state border	
17:00	Boris Kolev	
17:00	Marketing profile of the municipality - a chance for its economic	
17:15	development, Maria Shishmanova	
17:15-	For some socio-economic processes in Bulgarian villages,	
17:30	Emilia Patarchanova	
17:30	ARIMA predict of consumption pattern in rural areas, Minka	
17:45	Anastasova, Maria Shishmanova	
17:45	An Application of the EU Financial instruments for the tourism	
18:00	development in the rural areas in Bulgaria, Elena Aleksandrova	
18:00	Students summer work programs as a way to permanent emigration in	
18:15	the USA, Vladimir Karadzhov	
18:15	Influence of household incomes on the students' summer work	
18:30	programs participation, Vladimir Karadzhov	
. 0.00	programs participation, viaulinii rarauznov	

Section: Geography, Ecology and Environment protection Hall 7

Friday, J	une 12		
Chairmai	Chairman: Assoc. Prof. Emilia Patarchanova		
09:00 09:15	Sites under the auspices of UNESCO in Bulgaria, Antoaneta Stoyneva		
09:15- 09:30	Biodegradable wastes - experiment of an innovative technology for their utilization, Stefka Tsekova, Kiril Stamboliev		
09:30- 09:45	Analysis of the situation in separate collection of packaging waste - Blagoevgrad Municipality, Nikolinka Atanasova		
09:45- 10:00	Water resources assessment of river Botunya in terms of the risks of drought, Yordan Dimitrov		
10:00 10:15	Banshtitsa river - between local,regional and strategic significance Michail Michailov, Albena Haralampieva		
10:15 10:30	Mapping of morphometric indicators in small drainage basin and assessment of risk flooding, Galina Bezinska, Krasimir Stoyanov, Miroslav Ivanov		
10:30 10:45	Relations between climate, glacierets and lakes in the Popluk massif, Prokletije mountains, Albania, Emil Gachev, Krasimir Stoyanov, Nadezhda Nikolova		
10:45 11:00	Borders and Principal Regional Units of the Bulgarian Continental Micro Morphotecture (East Part of Balkan Peninsula) Tzanko Tzankov, Svetla Stankova		
11:00 11:15	The use of liquid crystals (LC) for environment monitoring, Boyko Kolev		
11:15- 11:30	Ecosystem Services and Their Valuation, Svetoslav Nikolov		
11:30- 11:45	Some questions about usefulness and effectiveness of the activities for the environmental protection, Michail As. Michailov		
11:45- 12:00	Environmental Alarmism: the Club of Rome and Its Critics, Nikolai Mihailov, Lidia Sakelarieva		

Section: Methodology in Education Hall 4

Thursday, June 11		
Chairman: Assoc. Prof. Penka Bozarova		
13:30-	The benefits of applying formative assessment techniques for better	
13:45	student learning	
	Sava Grozdev, Borislava Kirilova	
13:45-	School Portfolio in physics for teaching Electromagnetic Interaction in	
14:00	9th grade	
	Georgi Malchev	
14:00-	About new media in geographic education – a story with unexpected end	
14:15	Maya Vasileva, George Kotseff, Dessislava Poleganova	
14:15-	Students` opinion survey about the chemistry preparation at school	
14:30	Velichka Dimitrova, Magdalena Shekerliyska	
14:30-	The chemistry experiment – science and attraction	
14:45	Elitsa Chorbadzhiyska, Velichka Dimitrova, Magdalena Shekerliyska,	
	Galina Baliova, Metodiyka Angelova	
14:45-	Общ алгоритъм за намиране признак за делимост на произволно	
15:00	просто число	
	проф. д-р Иван Тонов, Маряна Кацарска	

Section: Mini-conference "Inquiry-Based Approach in Higher Education in Mathematics and Informatics" Conference Hall

Thursday, June 11		
Chairman: Acad. Prof. Petar Kenderov, DSc		
14:00- 14:40	Serious Computer Games Design as Inquiry Based Learning in Teacher	
14.40	Education Joze Rugeli	
14:40- 15:20	Some Examples of the Research Approach in the Education of Mathematical Analysis Stepan Terzian	
15:20- 15:35	Place of the logical symbolism for revealing the logical structure of the definitions of some mathematical notions Julia Ninova	
15:35- 15:50	Active Learning with ICT (ALICT project) – Games Developed by Students	
15:50- 16:05	Liliana Petkova, Reneta Shestakova E-learning and inquiry based approach in computer science education Georgi Tuparov, Daniela Tuparova	
16:05- 16:20	Virtual school mathematics laboratory T. Chehlarova, G. Gachev, P. Kenderov, E. Sendova	
16:20- 16:35	Visualizations of algorithms and software programs Mariya Palahanova	
16:35- 16:50	Test system and software for evaluation the students knowledge in programming Nikolay Kirov	
Coffee break		
17:00- 18:00	Workshop and Discussion	

Poster session

14.00 - 16.00, 11.06.2015, Lobby