



SOUTH-WEST
UNIVERSITY
·NEOFIT RILSKI·

66 "IVAN MIHAILOV" STR.
2700 BLAGOEVGRAD



PROGRAM

Fifth International Scientific Conference
FMNS-2013

12 - 16.06.2013, Blagoevgrad, BULGARIA

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

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GENERAL TOPICS:

Mathematics

Informatics

Computer Technologies

Geography, Ecology and Environment Protection

Physics and Technology

Chemistry

Methodology in Education

Workshop - Renewable Energy Technologies

Sessions

13:30 - 15:00

15:30 - 17:00

University Conference Center "Bachinovo"

Welcome Party

20:00 13.06.2013

University Conference Center "Bachinovo"

Conference Dinner

20:00 14.06.2013

University Conference Center "Bachinovo"

Program Overview

Registration (12.06.2013)

13:00 – 18:30

University Conference Centre "Bachinovo"

Registration (13.06.2013)

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 (13.06.2013)

10:15 – 11:00

Central Auditorium of Conference Center
"Information Evolution and Man"
(Човекът и информационното развитие)
Acad. Kiril Boyanov

Plenary Report (13.06.2013)

11:15-12:00

"POPULAR SCIENCE ARTICLES ONE
HELP IN SECONDARY SCHOOL TEACHING"

Acad. Evgeny Golovinsky

Discussion (13.06.2013) 12:00-12:30

"The importance of Popular Science Literature in Education"

Acad. Evgeny Golovinsky

Assoc. Prof. Stefan Manev

Plenary Report (14.06.2013)

10:00-10:45

"Mathematical competitions in Bulgaria -
development and perspectives"

Prof. Peter Boyvalenkov

Round Table (14.06.2013) 10:45 – 13:00

Energy and sustainable development

Section: Mathematics
Hall 11

Thursday, June 13	
Chairman: Assoc. Prof. Slavcho Shtrakov	
13:30-13:45	On categorical semigroups Andrey Kostin, Boris Novikov
13:45-14:00	Bootstrap with cycled blocks in stationary time series Lorenc Ekonomi, Lorena Margo, Eljona Milo, Edlira Donefski, Ilir Palla
14:00-14:15	Structural description of generalized $(m + k, m)^{-}$ rectangular bands, Valentina Miovska, Dončo Dimovski
14:15-14:30	Free ternary semicommutative groupoids Vesna Celakoska-Jordanova
14:30-14:45	Intrinsic shape of unstable attractors Martin Shoptrajanov
14:45-15:00	Jackknife with re-blocks in time series with weak dependence, Lorenc Ekonomi, Lorena Margo, Eljona Milo, Edlira Donefski, Ilir Palla
Coffee break	
Chairman: Prof. Boris Novikov	
15:30-15:45	Congruences and reduction systems in stable varieties Slavcho Shtrakov, Jörg Koppitz
15:45-16:00	Bootstrap Confidence Intervals for the Fractional Difference Parameter in ARFIMA Model Argjir Butka, Gjergji Capollari
16:00-16:15	Description of (4,2)-equivalences Marzanna Seweryn-Kuzmanovska, Dončo Dimovski
16:15-16:30	On $(3, 2, \rho)$ -K-metrizable spaces Tomi Dimovski, Dončo Dimovski
16:30-16:45	On the weighted $(W(b); \gamma)$ – diaphony of the generalized Van der Corput sequence, Vesna Dimitrievska Ristovska. Vassil Grozdanov, Stanislava Stoilova
16:45-17:00	INTRINSIC SHAPE BASED ON $\mathcal{E}$ -CONTINUITY AND ON CONTINUITY UP TO A COVERING ARE EQUIVALENT (II) N. Shekutkovski, Z. Misajleski
17:00-17:15	Inner inverses in rings with involution and applications, Biljana Nacevska

Section: Mathematics
Hall 11

Friday, June 14	
Chairman: Assoc. Prof. Vasil Grozdanov	
13:30-13:45	The maximal subsemigroups of the semigroup of all partial order-preserving isometries Ilinka Dimitrova
13:45-14:00	Systems of difference equations as a model for the Lorentz system Biljana Zlatanovska,
14:00-14:15	Structure Of a Fuzzy Gamma Module R. Sadeghi
14:15-14:30	EQUATION OF THE FUNCTIONING OF AN AIRCRAFT AND HIS A CRASH FUNCTION Nikolay Petrov, Krasimir Yordzhev, Stancho Pavlov
14:30-14:45	New derivative-free nonmonotone line search methods for unconstrained minimization Filip Nikolovski, Irena Stojkovska
14:45-15:00	ONE EXAMPLE OF ANALYTIC FUNCTION ON THE UNIT DISC Ljupco Nastovski, Petar Sokoloski
Coffee break	
Chairman: Peter Boyvalenkov	
15:30-15:45	ABOUT THE CENTER OF GRAVITY OF ZEROES OF POLYNOMIALS Dimiter Stoichkov Kovachev, Valentin Mihailov Lishkov,
15:45-16:00	On a mathematical model of cancer invasion Boiana Garkova
16:00-16:15	Investigation of the regions of stability of Gear's Implicit m-Step Methods, Anka Markovska,
16:15-16:30	Proximate Fundamental Group Nikita Shekutkovski, Aneta Velkoska
16:30-16:45	On the weighted $(W(b); \gamma)$ – diaphony of the generalized Zaremba-Halton net, Vassil Grozdanov, Dora Mavrodieva
16:45-17:00	Prime numbers in the subsets of a set Adili Arto, Beta Dhoru, Milo Eljona
17:00-17:15	Randomly indexed central order statistics Aneta Gacovska, Elisaveta Pancheva

**Section: Informatics
Hall 8**

Thursday, June 13 (Informatics and Computer technologies)	
Chairman: Prof. Peter Milanov	
13:30-13:45	Tools Selection for Design and Development of an Expert System for Social Area Domain Irena Atanasova, Jiři Křupka
13:45-14:00	Impacts of Moodle on electrical engineering courses: opportunities and challenges Vasilija Sarac, Tatjana Atanasova-Pacemska, Sanja Pacemska, Dragan Minovski
14:00-14:15	Entertaining problems in the teaching computer programming, Mariya Palahanova
14:15-14:30	Analysis of the human resources of the food subsectors through benchmarking Miglena Trencheva, Metodi Traykov, Ivan Trenchev
14:30-14:45	A Model for HP Folding Prediction using Variable Size of Lattice, IvanTodorin
14:45-15:00	Optimization of Homology modeling of the δ -opioid receptor by Molecular Operating Environment Fatima Sapundzhi
Coffee break	
Chairman: Assoc Prof. Krasimir Yordzhev	
15:30-15:40	VARIABLE NEIGHBORHOOD SEARCH BASED ALGORITHM FOR UNIVERSITY COURSE TIMETABLING PROBLEM Velin Krlev, Radoslava Krleva
15:40-15:50	Impacts of Moodle on electrical engineering courses: opportunities and challenges Vasilija Sarac, Tatjana Atanasova-Pacemska, Sanja Pacemska, Dragan Minovski
15:50-16:00	Application of Matlab/Simulink in hybrid stepper motor modeling Vasilija Sarac, Slobodan Pesic
16:00-16:10	Online generation of psychological tests Gergana Praskova, Ivan Petrov, Krasimir Yordzhev, Ivelina Peneva

**Section: Computer technologies
Hall 9**

Thursday, June 13 (Informatics and Computer technologies)	
Chairman: Prof. Boris Tudjarov	
13:30-13:45	Multi-modal Perception for Human-friendly Robot Partners with Smart Phones based on Computational Intelligence Naoyuki Kubota, Yuichiro Toda, Janos Botzheim, Boris Tudjarov
13:45-14:00	A Survey of Intelligent Tutoring and Affect Recognition for Mobile Devices, Malinka Ivanova
14:00-14:15	FPGA Based Mixed-Signal Circuit Novel Testing Techniques Sotirios Poulos, Vassilios Vassios, Dimitrios Papakostas, Valentin Hristov
14:15-14:30	Vulnerability issues on research in WLAN encryption algorithms WEP WPA/WPA2 Personal Lazaridis Ioannis, Poulos Sotirios, Veloudis Simeon
14:30-14:45	Investigation of aggregation with fragments retransmission with losses in wireless networks, Valentin Hristov, Firas Ibrahim, Bzar k. h, Hussan, Kiril Slavkov
14:45-15:00	Simulation of aggregation mechanism with fragments retransmission, Valentin Hristov, Bzar k. Hussan, Firas Ibrahim, Gergana Kalpachka
Coffee break	
Chairman: Assoc. Prof. Valentin Hristov	
15:30-15:45	Improving network management with Software Defined Networking, Pavel Dzhunev
15:45-16:00	Microprocessor System for Non-Invasive Measurement of Blood Glucose Ljudmila Taneva, Antoaneta Daskalova
16:00-16:15	Speed testing of Sliding spectrum analysis Emil Frenski, Dimitar Manolev
16:15-16:30	Survey paper on wireless network applications implemented on FPGA Sotirios Poulos, Angel Popov
16:30-16:45	Experimental studies of the web server defenses against TCP SYN Flood attacks Nina Sinyagina, Stela Ruseva
	On DSP's Performance versus General Purpose Processors Dimitar Manolev, Vencislav Petrov

Section: Computer technologies
Hall 9

Friday, June 14	
Chairman: Assoc. Prof. Stanko Shtrakov	
13:30-13:40	Improvement of forwarding process with multiple network links Valentin Hristov, Oleg Panagiev, Firas Ibrahim
13:40-13:50	Laboratory course development for teaching discipline PLD programming Valeri Vachkov, Ivo Angelov, Petar Manoilov
13:50-14:00	Simulation of aggregation mechanism with fragments retransmission Valentin Hristov, Bzar k. Hussan, Firas Ibrahim, Gergana Kalpachka
14:00-14:10	EXPERIMENTAL PLATFORM FOR MEASURING THE PARAMETERS OF MAGNETIZATION OF A TRANSFORMER IN A QUASI-STATIC TRANSITIONAL REGIME Vasil Milovanski, Krasimir Stoyanov, Stefani Milovanska
14:10-14:20	Bachelor Degree Education in the Department of Computer Systems and Technologies of South-West University Iliya Tinyokov, Stanko Shtrakov, Emil Radev, Valeri Ivanov
14:20-14:30	Mission critical radio systems.Status and trends in Bulgaria Alexey Stefanov
14:30-17:00	<i>10th anniversary of Department of Computer Systems and Technology</i>

**Section: Chemistry
Hall 3**

Thursday, June 13	
Chairman: Prof. Mario Mitov	
13:30 13:45	NEW ADAMANTANE ANALOGUES - SYNTHESIS AND ANTIVIRAL ACTIVITY, KIRIL N. CHUCHKOV, RUMEN K. GEORGIEV, GALYA IVANOVA, ANGEL S. GALABOV AND IVANKA G. STANKOVA
13:45 14:00	QUANTUM-CHEMICAL CALCULATION OF O-H BOND DISSOCIATION ENTHALPY IN FLAVONES MARIA VAKARELSKA-POPOVSKA, ZHIVKO VELKOV
14:00 14:15	BIOLOGICAL ACTIVITY OF ADAMANTANE ANALOGUES MAYA CHOCHKOVA, BOYKA STOYKOVA, NADYA NIKOLOVA, LUBOMIRA NIKOLAEVA-GLOMB, GALYA IVANOVA, TSENKA MILKOVA
14:15 14:30	SYNTHESIS AND IR-SPECTRAL CHARACTERIZATION OF DIPEPTIDE THREONYL-METHIONINE T. DZIMBOVA, A. BUZGOVA, A. CHAPKANOV
14:30 14:45	SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF Jane Bogdanov
14:45 15:00	GENERATION AND SELECTION OF LIKELY ACTIVE CONFORMERS OF METAL COMPLEXES WITH AMINO ACID (PHENYLALANINE), VIKTORIA TRIFONOVA, NENKO HALACHEV, KRASIMIR VASILEV, YANA KOLEVA
Coffee break	
Chairman: Assoc. Prof. Petko Mandjukov	
15:30 15:45	SYNTHESIS AND DEOXYGENATION OF 1,1'-DIARYL-2,2'-SPIROBIINDAN-1,1'-DIOLS, JANE BOGDANOV
15:45- 16:00	HEAVY METAL COMPLEXES WITH THE AMINO ACID PHENYLALANINE, VIKTORIYA TRIFONOVA, NENKO HALACHEV, KRASIMIR VASILEV, YANA KOLEVA
16:00- 16:15	PRELIMINARY STUDY ON THE KINETICS OF THE REACTION BETWEEN ANTIOXIDANTS AND TEST RADICAL – DPPH B. REKARSKA, G. HRISTOV, S. STANIMIROV, Zh. VELKOV, P. MANDJUKOV, B. RADOEV
16:15- 16:30	THE EFFECT UNDER EXPLORATION PROPERTIES AT USE OF LOW OCTANE COMPONENT FOR OBTAINING OF CONTEMPORARY GASOLINE YORDANKA TASHEVA, ANTON PALICHEV
15:50- 16:00	THE POTENTIAL RISK OF PETROLEUM PROPYL MERCAPTAN IN THE ENVIRONMENT YORDANKA TASHEVA, YANA KOLEVA
16:00- 16:15	Mineralogical composition of atmospheric dust in Pilsen studied by X-ray powder diffraction, David Havlicek

**Section: Chemistry
Hall 3**

Friday, June 14	
Chairman: Assoc. Prof. ZHIVKO VELKOV	
13:30 13:45	INVESTIGATION OF THE MOLECULAR MECHANISMS OF HEPATOTOXICITY OF SOME DRUGS IN THE THERAPY OF AUTISM, DIANA ANGELOVA, SVETLANA GEORGIEVA, YANA KOLEVA
13:45 14:00	PROBABLE HEPATOTOXIC ACTIONS OF THE METABOLITES OF SOME DRUGS IN THE THERAPY OF AUTISM DIANA ANGELOVA, SVETLANA GEORGIEVA, YANA KOLEVA
14:00 14:15	NIW AND NIMO ELECTRODEPOSITS AS CATHODE MATERIALS FOR MICROBIAL ELECTROLYSIS CELL ELITSA CHORBADZHIYSKA, MARIO MITOV, YOLINA HUBENOVA, LORI NALBANDIAN
14:15 14:30	AB INITIO STUDY OF PD-AU ELECTRODEPOSITS AS ANODIC CATALYST FOR DIRECT BOROHYDRIDE ELELCTROOXIDATION GEORGI HRISTOV, ELITSA CHORBADZHIYSKA, ANTIGONI EVDOLU, LORI NALBANDIAN, NINA DIMCHEVA, YOLINA HUBENOVA, MARIO MITOV
14:30 14:45	POSSIBILITY FOR SIMULTANEOUS ELECTRICITY GENERATION AND BIOREMEDIATION BY USING <i>CANDIDA MELIBIOSICA</i> YEAST IN BIOFUEL CELL YOLINA HUBENOVA, DANAIL GEORGIEV, MARIO MITOV
14:45 15:00	LONG-TERM OPERATION OF SEDIMENT FUEL CELLS USING RIVER SEDIMENTS AND SOIL, Ivo BARDAROV, YOLINA HUBENOVA, MARIO MITOV, ALEXANDER POPOV
Coffee break	
Chairman: Assoc. Prof. Mitko Stoev	
15:30 15:45	EXTRACTION METHODS FOR SPECIATION AND QUANTIFICATION OF CR (III) AND CR (VI) FROM AQUEOUS SOLUTION, PETRankA PETROVA, MAYA CHOCHKOVA, IRINA KARADJOVA, IVANKA DAKOVA
15:45- 16:00	STEREOELECTROCHEMISTRY OF CALIX[4]ARENES PAVEL VOJTISEK, JANA KLIMENTOVA, ALAN LISKA AND JIRI LUDVIK
16:00- 16:15	DISTRIBUTION OF LEAD IN SELECTED ANIMAL ORGANS AND TISSUES IN PROBISTIP AND ITS SURROUNDINGS SNEZANA STAVREVA-VESELINOVSKA, JORDAN ZIVANOVIK
16:15- 16:30	APPLICATION OF VIBRATIONAL SPECTROSCOPY IN CHARACTERIZATION OF MOLECULAR CRYSTALS FOR NON-LINEAR OPTICS, IVAN NEMEC
16:30 16:45	TRANSITION METAL CHROMITE NANOPARTICLES IN SILICA MATRIX. THEIR STABILITY, STRUCTURE AND MAGNETIC PROPERTIES. Jiri Plocek

Section: Physics
Hall 4

Thursday, June 13 (Physics)	
Chairman: Assoc. Prof. Luben Mihov	
13:30-14:15	ENERGY AND ENVIRONMENT I.N.STAMENOV Plenary Report
14:15-14:30	STUDY OF ^8He NUCLEI VIA NUCLEAR TRACK EMULSION R. Zh. STANOEVA, D. STOILOV
14:30-14:45	SURFACE CHARGE DISTRIBUTION FOR NON-SYMMETRICAL CONDUCTING BODY P.A. POLYAKOV, N.E. RUSAKOVA, Yu.V. SAMUKHINA, I. GIUDJENOV, M.A., TASSEV
14:45-15:00	ELIMINATION OF SINGULARITIES IN CURRENT DENSITY DISTRIBUTION PROBLEMS FOR PLAIN CONDUCTORS WITH SHARP CORNERS, T.N. GERASIMENKO, P.A. POLYAKOV, I. GIUDJENOV, M.A. TASSEV
Coffee break	
Chairman: Prof. Lubomir Pavlov	
15:30-15:45	ELECTRIC PULSE METHOD OF ROCK CRUSHING NUSSUPBEKOV B.R., STOEV M., KHASENOV A.K., BEISENBEK A.ZH.
15:45-16:00	DEVELOPMENT OF ELECTRO-HYDRAULIC PULSE TECHNOLOGY OF DRILLING WELLS FOR INSTALLATION OF HEAT EXCHANGE ELEMENTS OF HEAT PUMPS K. KUSAIYNOV, N.N.SHUYUSHBAEVA, J.A.KUZHUHANOVA, B.A.AHMADIEV.
16:00-16:15	INVESTIGATION FUNCTIONAL ASYMETRY OF THE BRAIN THROUGH MESUREMENT OF ENERGY SPECTRUM OF WATER (ANTONOV'S METHOD) Stoyan Vezenkov, Krasimir Damov, Anton Antonov
16:15-16:30	IMPROVED FOUR PHOTON MIXING METHOD FOR OPTICAL FIBRE'S PARAMETERS CONTROL LUBEN MIHOV IVANOV, LUBOMIR MILCHEV KOVACHEV
16:30-16:45	COMPARATIVE STUDY ON CARBON NITRID THIN FILMS OBTAINED BY CVD AND PVD MECTHODS P. PETROV, D.DECHEV, N.IVANOV,V.KRASTEV
16:45-17:00	FPGA DEVELOPMENT BOARD FOR APPLICATIONS IN COSMIC RAYS PHYSICS IVO ANGELOV, SVETLA DIMITROVA, KRASIMIR DAMOV

**Section: Physics
Hall 4**

Friday, June 14	
Chairman: Assoc. Prof. Dimitrina Kerina	
13:30- 13:45	POSSIBILITY FOR MEASUREMENT OF SMALL CHANGES OF LIQUID'S REFRACTIVE INDEX, RELATED TO THE CHANGES IN LIQUID'S CONCENTRATIONS LUBEN IVANOV, DIMITAR MANOLEV, DARINA KAISHEVA
13:45- 14:00	EFFECT OF PARAMETRIC PROCESSES ON THE STIMULATED RAMAN SCATTERING IN FIBERS L.I.Pavlov, D.N.Kaisheva, L.M.Kovachev
14:00- 14:15	EFFICIENT FREQUENCY-DOUBLER FOR ULTRAVIOLET LASER SPECTROSCOPY OF NEW NUCLEI AND IONS D.N.Kaisheva, L.I.Pavlov
14:15- 14:30	ИЗСЛЕДВАНЕ ДЕЙСТВИЯТА НА ХОРАТА И ПОСЛЕДИЦИТЕ ОТ ЗЕМЕТРЕСЕНИЯТА В РАЙОНА НА ПЕРНИК ПРЕЗ 2012 ГОДИНА ЛЮБОМИР ДИРЕКОВ

Section: Geographic environment and resources
Hall 7

Thursday, June 13 (Geographic environment and resources)	
Chairman: Assoc. Prof. Krasimir Stoyanov	
13:30-13:45	TEMPERATURE ANOMALIES IN BULGARIA IN NOVEMBER 2010 AND 2011 IVAN DRENOVSKI, PENKA KASTREVA
13:45-14:00	ГЕОЭКОЛОГИЧЕСКИЙ АНАЛИЗ ГЕОЭКОСИСТЕМ ВОЛГОГРАДСКОГО ПОВОЛЖЬЯ НА ОСНОВЕ ЭКОЛОГО-ГЕОГРАФИЧЕСКОГО РАЙОНИРОВАНИЯ СЕРГЕЙ ПРЯХИН, ИВАН ДРЕНОВСКИ, ИВАН БУРЦЕВ
14:00-14:15	ГЕОЭКОЛОГИЧЕСКИЕ ПОСЛЕДСТВИЯ НЕФТЕГАЗОДОБЫЧИ В ПРЕДЕЛАХ ВОЛГОГРАДСКОЙ ОБЛАСТИ СЕРГЕЙ ПРЯХИН, ИВАН ДРЕНОВСКИ
14:15-14:30	3D MODELLING WITH OPEN SOURCE OR COMMERCIAL SOFTWARE PENKA KASTREVA, GALINA BEZINSKA
14:30-14:45	TERRITORIAL CHANGES OF THE DEGREE OF HYDROCHEMICAL CONTAMINATION ALONG RUSE LOM RIVER EMIL ZDRAVKOV, NELLY HRISTOVA
14:45-15:00	TREATMENT OF EXPIRED PESTICIDES STEFKA TSEKOVA, VESELINA DALGACHEVA
Coffee break	
Chairman: Assoc. prof. Ivan Drenovski	
15:30-15:45	THE WEAKEST REGIONS IN THE EUROPEAN UNION, THE MOST VULNERABLE IN THE NATIONAL SPACE MARIA SHISHMANOVA
15:45-16:00	ENVIRONMENTAL PECULIARITIES AND LOCAL CONDITIONS IN OSHTAVSKA STREAM BASIN MICHAIL AS. MICHAILOV, BORISLAV LAZAROV, GORAN HRISTOV
16:00-16:15	TOWARD THE DEVELOPMENT OF ECOSYSTEM SERVICES IN BLAGOEVGRAD DISTRICT MICHAIL AS. MICHAILOV, NIKOLINKA ATANASOVA, GORAN HRISTOV, MARIA PAZVANSKA, BORISLAV LAZAROV, MARGARITA DIMITROVA
16:05-16:30	SMALL AND MEDIUM ENTERPRISES AND THEIR IMPACT ON THE ENVIRONMENTAL SITUATION IN BULGARIA EMILIA PATARCHANOVA, NIKOLINKA ATANASOVA, GORAN HRISTOV, MARIA PAZVANSKA, BORISLAV LAZAROV, PLAMEN STOYANOV

Section: Ecology and environment protection

Hall 7

Friday, June 14 (Ecology and environment protection)	
Chairman: Assoc. Prof. Michail Michailov	
13:30-13:45	PRESENT DAY SMALL GLACIERS ON THE BALKAN PENINSULA EMIL GACHEV, KRASSIMIR STOYANOV
13:45-14:00	CLIMATIC CONTROLS OVER THE RECENT DEVELOPMENT OF SMALL GLACIERS ON THE BALKAN PENINSULA KRASSIMIR STOYANOV, EMIL GACHEV
14:00-14:15	PRODUCTIVE CHARACTERISTICS OF SOILS IN THE MUNICIPALITY OF YASTREBOVO, STARA ZAGORA DISTRICT BOYKO KOLEV
14:15-14:30	A conceptual viewpoint on the urban periphery. Craiova, Romania as a case study Cristina Sosea
14:30-14:45	LOCALIZATION OF FIRES IN LANDFILLS AND ILLEGAL DUMPSITES VESELINA DALGACHEVA, MARIA ATANASOVA, GORAN HRISTOV, LUYBEN ELENKOV
14:45-15:00	Fostering economical growth in a cross-border region between Bulgaria and FYROM through developing Web Geo-Services Lyubka Pashova, Penka Kastreva, Bashkim Idrizi
Coffee break	
Chairman: Assoc. Prof. Boyko Kolev	
15:30-15:45	ACCIDENTS AT THE TRANSPORT OF DANGEROUS GOODS ON ROAD IN THE TERRITORY OF BULGARIA LUYBEN ELENKOV, VESELINA DALGACHEVA, BORISLAV LAZAROV
15:45-16:00	Radical ideas in ecology Nikolai Mihailov
16:00-16:15	Zoogeography, protection and conservation status of the herpetofauna in the city of Blagoevgrad Alexander Pulev, Lidia Sakelarieva
16:15-16:30	Biogeography Division of Bulgaria, Alexander Pulev, Krasimir Stoyanov, Galina Bezinska, Lidia Sakelarieva

**Section: Methodology in Education
Conference Hall**

Thursday, June 13	
Chairman: Assoc. Prof. Penka Bozarova	
13:30-13:45	CHEMISTRY EXPERIMENTS IN SCHOOL AND INTERACTIVE WHITEBOARD, VELICHKA DIMITROVA, ILIANA ATANASOVA
13:45-14:00	Prime numbers in the subsets of a set Adili Arto, Beta Dhorì, Milo Eljona
14:00-14:15	PRACTICAL APPLICATION ASPECT OF PROFESSIONAL COMPETENCES OF FUTURE TEACHERS SVETLANA ANGELOVA
14:15-14:30	HARMFUL FOOD ADDITIVES – A HANDBOOK FOR THE USER SIMEON MANOV, VELICHKA DIMITROVA, STEFAN MANEV
14:30-14:45	INTERACTIVE LEARNING IN PROGRAMMED TEACHING OF THE SUBJECT “BASED OF NATURE SCIENCE” AT FACULTY OF EDUCATIONAL SCIENCE– R MACEDONIA SNEZANA STAVREVA-VESELINOVSKA, SONJA PETROVSKA
Coffee break	
Chairman: Assoc. Prof. Velichka Dimitrova	
15:00-15:15	SOME PECULIARITIES OF TEACHING PHYSICS AT THE NATURAL SCIENCES AND MATHEMATICS HIGH SCHOOLS IN BULGARIA AND SWITZERLAND VIOLETA VAKOVA, SAMUEL BYLAND
15:15-15:45	THE SCIENTIFIC ESSAY AS A METHOD OF TEACHING PHYSICS AND ASTRONOMY IN THE SECONDARY SCHOOL, GEORGI MALCHEV
15:45-16:00	COMPILATION AND APPROBATION OF AN ELECTRONIC ENGLISH-BULGARIAN DICTIONARY OF BILINGUAL TEACHING IN CHEMISTRY AND ENVIRONMENTAL PROTECTION Yuliana Terziyska
16:00-16:15	ИНТЕГРИРАН УРОК ПО ХИМИЯ И ОПАЗВАНЕ НА ОКОЛНАТА СРЕДА И ИНФОРМАЦИОННИ ТЕХНОЛОГИИ, STEFKA MIHAYLOVA
16:15-16:30	ТЕМАТА ЗА РАСИТЕ– ВЪЗМОЖНОСТ ЗА ПОВИШАВАНЕ ИНТЕРЕСА И МОТИВАЦИЯТА НА УЧЕНИЦИТЕ, MARIYA TODOROVA VESELINSKA
16:30-16:45	ИНФОРМАЦИОННИТЕ ТЕХНОЛОГИИ В ПОМОЩ НА УЧИТЕЛЯ ПО ХИМИЯ И ОПАЗВАНЕ НА ОКОЛНАТА СРЕДА, ALEKSANDRA SHEKERLIYSKA

