

**UNION OF SCIENTISTS IN BULGARIA  
SECTION BIOLOGY**

**INSTITUTE OF BIODIVERSITY AND ECOSYSTEM RESEARCH – BAS**



# **SEMINAR OF ECOLOGY - 2016**

**with INTERNATIONAL PARTICIPATION**

**21-22 April 2016**



**Програма/Program  
Абстракти/Abstracts**





# “SEMINAR OF ECOLOGY – 2016” WITH INTERNATIONAL PARTICIPATION

21-22 April 2016

**PROGRAM**

21 April 2016

8<sup>00</sup> - 9<sup>00</sup> Registration (IBER-BAS)

9<sup>00</sup> - 9<sup>30</sup> Opening Ceremony

Family photo

## THEMATIC SESSION I

### BIODIVERSITY AND CONSERVATION BIOLOGY

*Chairmen: Prof. Snezhana Grozeva and prof. Boyko Georgiev DSc*

#### Plenary presentations

9<sup>30</sup>-9<sup>45</sup> – MAPPING AND ASSESSMENT OF SPARSELY VEGETATED LAND ECOSYSTEMS AND THEIR SERVICES OUTSIDE NATURA 2000 NETWORK IN BULGARIA *Svetlana Bancheva, Anna Ganeva, Petar Dimov, Vladimir Vladimirov - PL01\_01*

#### Oral presentation

9<sup>45</sup>-9<sup>55</sup> – CURRENT STATE OF MICROSPORIDIA RESEARCH IN BULGARIA *Daniela Pilarska, Danail Takov, Leellen Solter - L01\_01*

9<sup>55</sup>-10<sup>05</sup> COMPARATIVE ANALYSIS OF THE VASCULAR FLORA IN THE VALLEY OF RIVER STRUMA AND THE VALLEY OF RIVER MESTA FLORISTIC REGIONS, SOUTHWESTERN BULGARIA *Kiril Vassilev, Valentina Goranova, Hristo Pedashenko - L01\_02*

10<sup>05</sup>-10<sup>15</sup>  HOW LIZARDS MANAGE THEIR MICROHABITAT SELECTION IN DYNAMIC ENVIRONMENT? *Emiliya Vacheva, Nikiolay Tzankov - L01\_03*

10<sup>15</sup>-10<sup>25</sup>  POPULATION DYNAMICS OF GOLDEN JACKAL (*CANIS AUREUS*) AND RED FOX (*VULPES VULPES*) IN BULGARIA DURING THE PERIOD OF 2000-2015 *Albena Vlasseva, Tzenka Chassovnikarova, Nasko Atanassov* - L01\_04

10<sup>25</sup>-10<sup>45</sup> Discussion

10<sup>45</sup>-11<sup>00</sup> Coffee break

*Chairmen: Prof. Elisaveta Stoimenova and Prof. Stephka Chankova*

Plenary presentations

11<sup>00</sup>-11<sup>15</sup> BIODIVERSITY SCIENCE: PRIORITIES AND CURRENT CHALLENGES  
*Boyko Georgiev* - PL01\_02

Oral presentations

11<sup>15</sup>-11<sup>25</sup> ISSR PRIMER SELECTION FOR GENETIC VARIABILITY ANALYSES WITH THE BULGARIAN ENDEMIC *VERBASCUM DAVIDOFFII* MURB. (SCROPHULARIACEAE) *Galya Petrova, Stefan Petrov, Svetlana Bancheva* - L01\_05

11<sup>25</sup>-11<sup>35</sup>  PINE MARTEN (*MARTES MARTES*, L) DISTRIBUTION, HABITAT PREFERENCE AND ACTIVITY IN NP VITOSHA, BULGARIA *Nikola Doykin, Elitsa Popova, Maya Paraskova, Valentin Zlatanov, Diana Zlatanova* - L01\_06

11<sup>35</sup>-11<sup>45</sup> FLORA, VEGETATION AND HABITATS OF THE LESHNITSA RESERVE IN THE CENTRAL BALKAN RANGE, BULGARIA *Kiril Vassilev, Tenyo Meshinev* - L01\_07

11<sup>45</sup>-11<sup>55</sup> FLORA, VEGETATION AND THE HABITATS OF CHAMDZHA MANAGED RESERVE IN THE CENTRAL BALKAN RANGE, BULGARIA *Kiril Vassilev, Anna Gavrilova* - L01\_08

11<sup>55</sup>-12<sup>05</sup> ALGOCENOSIS OF LAKE RADONIQ (KOSOVO), DURING WINTER SEASON 2013 *Kemajl Kurteshi, Sali Maliqi* - L01\_09

12<sup>05</sup>-12<sup>30</sup> Discussion


12<sup>30</sup>-13<sup>00</sup> Lunch

*Chairmen: Prof. Elisaveta Stoimenova and Prof. Stephka Chankova*


Oral presentation


13<sup>00</sup> – 13<sup>10</sup>  DIVERSITY, DISTRIBUTION AND CONSERVATION STATUS OF THE AMPHIBIANS (AMPHIBIA) IN PROTECTED AREA „ORANOVSKI PROLOM – LESHKO” (BG0001022), BULGARIA *Nevena Malakova, Lidia Sakelarieva, Alexander Pulev, George Manolev, Lilia Filipova* - L01\_10

13<sup>10</sup>-13<sup>20</sup> ORCHIDS ON MT FALAKRON, NORTH-EASTERN GREECE *Asen Asenov* - L01\_11

13<sup>20</sup>-13<sup>30</sup>  WINTER ACTIVITY OF TWO TAILED AMPHIBIAN SPECIES (AMPHIBIA: CAUDATA) IN SOUTHWESTERN BULGARIA *Alexander Pulev, George Manolev, Lidia Sakelarieva, Krasimir Stoyanov - L01\_12*

13<sup>30</sup>-13<sup>40</sup>  FIRST DATA ON THE OLIGOCHAETA (ANNELIDA: CLITELLATA) COMPLEX IN SOME BULGARIAN EPHEMERAL WATER BODIES *Galia Georgieva, Pencho Ivanov, Yordan Uzunov, Luchezar Pehlivanov - L01\_13*

13<sup>40</sup>-13<sup>50</sup>  FIRST DATA FOR THE OLIGOCHAETA (ANNELIDA: OLIGOCHAETA) FAUNA FROM PRIEP REZERVOIR AND THE RIVER OREVOVECHKA REKA, R. MACEDONIA *Galia Georgieva, Biljana Rimcheska, Ana Atanacković, Valentina Slavevska-Stamenković, Stoe Smiljkov, Momir Paunović, Yordan Uzunov - L01\_14*

13<sup>50</sup>-14<sup>00</sup>  FIRST REPORT OF *BRANCHIOBELLA KOZAROV* SUBCHEV, 1978 (ANNELIDA: CLITELLATA) FROM THE WESTERN BULGARIA *Biljana Rimcheska, Vanja Marković, Marija Ilić, Valentina Slavevska-Stamenković, Svetoslav Cheshmedjiev, Bela Csányi, Katarina Zorić, Momir Paunović, Mitko Subchev - L01\_15*

14<sup>00</sup>-14<sup>20</sup> Discussion

14<sup>20</sup>-14<sup>35</sup> Coffee break

## THEMATIC SESSION II

### LANDSCAPE ECOLOGY

*Chairmen: Assoc. Prof. Galina Radeva and Prof. Rumen Kalchev*

#### Plenary presentations

14<sup>35</sup>-14<sup>50</sup> – LANDSCAPE ECOLOGY AND BIODIVERSITY *Assen Assenov - PL02\_01*

#### Oral presentations

14<sup>50</sup>-15<sup>00</sup>  INDICATIONAL IMPORTANCE OF THE HEMEROBY INDEX IN THE LANDSCAPE ASSESSMENT AND MONITORING OF MALA PLANINA *Borislav Grigorov, Assen Assenov - L02\_01*

15<sup>00</sup>-15<sup>10</sup>  SPATIAL AND TEMPORAL ANALYSIS OF VEGETATION CANOPY AND THEIR RELATION WITH SLOPE PROCESSES IN ZEMEN GORGE (WEST BULGARIA) *Petko Bozhkov - L02\_02*

# THEMATIC SESSION III

## ECOSYSTEM RESEARCH, SERVICES AND ECOLOGICAL AGRICULTURE

*Chairmen: Assoc. Prof. Galina Radeva and Prof. Rumen Kalchev*

### Plenary presentations

**15<sup>10</sup>-15<sup>25</sup> THE ADVANTAGES OF ORGANIC FARMING ON THE ENVIRONMENT**  
*Elisaveta Stoimenova - PL03\_01*


**15<sup>25</sup>-15<sup>40</sup> PALEOECOLOGICAL STUDIES OF LAKES IN THE RILA MOUNTAINS**  
*Spasimir Tonkov - PL03\_02*

**15<sup>40</sup>-15<sup>55</sup> – MODELING OF FOREST ECOSYSTEM SERVICES** *Mariyana Lyubenova, Alexandre Chikalanov, Yuri Pavlov - PL03\_03*


### Oral presentations

**15<sup>55</sup>-16<sup>05</sup> MAPPING OF ECOSYSTEMS IN BULGARIA BASED ON MAES TYPOLOGY**  
*Stoyan Nedkov, Svetla Bratanova - Doncheva, Boris Markov - L03\_01*

**16<sup>05</sup>-16<sup>15</sup> ARTIFICIAL REEFS IN THE BLACK SEA – A CASE STUDY OF THEIR ECOLOGICAL IMPACTS AND FUNCTIONS** *Dimitar Berov, Stefania Klajn, Vasil Vasilev, Ioana Georgieva, Ventsislav Karamfilov - L03\_02*

**16<sup>15</sup>-16<sup>25</sup>  NATURAL REGENERATION OF ORIENTAL BEECH (*FAGUS ORIENTALIS* LIPSKY) IN FOREST ECOSYSTEMS OF STRANDZHA MOUNTAIN, SOUTHEAST BULGARIA** *Gergana Georgieva, Svetla Bratanova - Doncheva, Nesho Chipev - L03\_03*

**16<sup>25</sup>-16<sup>35</sup> ROTIFER COMPLEXES IN THE PLANKTON OF THE SREBARNA LAKE (BULGARIAN DANUBE FLOODPLAIN)** *Veselka Tzavkova, Merlijn Jocque, Luchezar Pehlivanov - L03\_04*

**16<sup>35</sup>-16<sup>45</sup>  WATER CHEMISTRY OF TWO RIVERS IN VITOSHA AS A PART OF THE ECOLOGICAL STATUS AND INTEGRITY ASSESSMENT** *Lachezar Yakimov, Radka Fikova, Emilia Varadinova and Radostina Hristova - L03\_05*

**16<sup>45</sup>-17<sup>05</sup> Discussion**

**17<sup>05</sup>-17<sup>25</sup> Coffee break**

**17<sup>25</sup>- 19<sup>00</sup> Poster session I and Discussion**

*Chairmen: Assoc. Prof. Margarita Topashka-Ancheva, Assist. Prof. Radka Fikova, Assist. Prof. Petya Parvanova*



# POSTER SESSION I

## BIODIVERSITY AND CONSERVATION BIOLOGY



**P01\_01 CONTRIBUTION TO THE KNOWLEDGE OF THE SPIDER FAUNA (ARANEAE) OF THE SKOPJE AND MALESH VALLEYS IN R. MACEDONIA** *Dragan Matevski, Aleksandra Cvetkovska-Gjorgjievska, Dana Prelić, Christo Deltshev*



**P01\_02 IN VITRO CLONAL PROPAGATION OF VALERIANA OFFICINALIS L. (VALERIANACEAE)** *Asya Kozhuharova, Boryanka Traykova, Marina Stanilova*

**P01\_03 FIRST RECORD OF ENTYLOMA GAILLARDIANUM (SMUT FUNGI) FROM BULGARIA** *Teodor Denchev and Cvetomir Denchev*

**P01\_04 NEW RECORDS OF OPHIOGNOMONIA (GNOMONIACEAE, DIAPORTHALES) IN GREECE AND TURKEY** *Dimitar Stoykov*

**P01\_05 NEW DATA ON THE DISTRIBUTION OF DOTHIDEOMYCETES AND SORDARIOMYCETES (ASCOMYCOTA) IN BULGARIA** *Dimitar Stoykov*

**P01\_06 UNUSUALLY HIGH ARCHAEOAL DIVERSITY IN VLASA HOT SPRING, VELINGRAD, BULGARIA, REVEALED BY PHYLOGENETIC ANALYSIS** *Margarita Stoilova-Disheva, Dimitrina Lyutskanova, Ivanka Boyadzhieva, Nadja Radchenkova, Margarita Kambourova*



**P01\_07 MACROPHYTES MAPPING IN PROTECTED AREA “ALDOMIROVSKO BLATO”** *Gabriela Petrova, Anita Tosheva*



**P01\_08 SEED GERMINATION AND EX SITU CONSERVATION OF VERBASCUM ANISOPHYLLUM MURB. (SCROPHULARIACEAE)** *Ivanina Boycheva, Stoyan Stoyanov, Boryana Sidzhimova, Boryanka Traykova, Marina Stanilova*



**P01\_09 ECOLOGICAL STATUS OF THE DANUBE RIVER (SERBIAN STRETCH) BASED ON MACROINVERTEBRATE ASSEMBLAGES** *Jelena Đuknić, Maja Raković, Nataša Popović, Jelena Čanak Atlagić, Stefan Anđus, Bojana Tubić, Nikola Marinković, Margareta Kračun-Kolarević, Momir Paunović*



**P01\_10 NEW SPECIES OF HYMENOPTERA FROM BELASICA MOUNTAIN FOR THE FAUNA OF REPUBLIC OF MACEDONIA** *Kiril Arsovski, Aleksandra Cvetkovska-Gjorgjievska, Dana Prelić*

**P01\_11 DIVERSITY OF FRESHWATER GASTROPODS IN THE DANUBE WETLAND AREA DUBOVAČKI RIT, (1082 - 1085 RIVER KM)** *Maja Raković, Nataša Popović, Aljoša Tansković, Jelena Đuknić, Jelena Tomović, Božica Vasiljević, Biljana Rimcheska, Momir Paunović*



**P01\_12 IDEA PROJECT FOR ORGANIZING THE TURKISH AQUATIC SITES IN BLACK SEA FROM THE ECOLOGICAL NETWORK NATURA 2000** *Nina Dyakova, Assen Assenov*



**P01\_13 NEW VARIATION OF *ORCHIS PAPILIONACEA* L. IN THE BULGARIAN FLORA** *Andrey Popatanasov, Asen Asenov*

**P01\_14 DIVERSITY AND DISTRIBUTION OF THE GENUS *CLADONIA* (LICHEN-FORMING FUNGI) IN BULGARIAN DRY GRASSLANDS** *Veselin Shivarov, Steffen Boch, Kiril Vassilev, Hristo Pedashenko*



**P01\_15 HABITAT DIVERSITY OF STRUMESHNITSA RIVER WATERSHED, SOUTHWESTERN BULGARIA** *Sofia Kostadinova, Kiril Vassilev, Assen Assenov*

**P01\_16 FLORISTIC INVESTIGATION OF “RILOMANASTIRSKA GORA” RESERVE, RILA MTS, BULGARIA** *Stoyan Stoyanov, Valentina Goranova, Nadezhda Apostolova-Stoyanova*

**P01\_17 DISTRIBUTION OF PEREGRINE EARTHWORMS (LUMBRICIDAE) DUE TO AFFORESTATION AND LAND USE IN SOFIISKA MOUNTAIN (PART OF WESTERN BALKAN MOUNTAINS, BULGARIA)** *Hristo Valchovski*

**P01\_18 SPECIES RICHNESS OF *DENDROBAENA* (OLIGOCHAETA: LUMBRICIDAE) GENUS IN TURKEY AND BULGARIA** *Mete Misirlioğlu and Hristo Valchovski*

**P01\_19 BIODIVERSITY IN REPUBLIC MACEDONIA** *Biserka Dimishkovska, Jovan Dimishkovski, Nikola Dimishkovski*

## **LANDSCAPE ECOLOGY**

**P02\_01 ASSESSMENT OF POTENTIAL ORGANIC POLLUTANTS IN LEACHATES FROM BULGARIAN LIGNITES** *Angelina Popova, Stefan Marinov, Maya Stefanova*

## **ECOSYSTEM RESEARCH, SERVICES AND ECOLOGICAL AGRICULTURE**

**P03\_01 ANTHROPOGENIC LOADING ON SOILS AND IMPACT OF LAND USE ON SURFACE AND GROUNDWATER QUALITY** *Dimitranka Stoicheva, Tsetska Simeonova, Svetla Marinova, Totka Mitova and Vera Petrova*

**P03\_02 TAXONOMIC AND ECOLOGICAL CHARACTERISTICS OF THE COLLEMBOLA FAUNA IN DIFFERENT AGROECOSYSTEMS** *Lilyana Koleva, Elena Tsoleva, Georgi Dimitrov*



**P03\_03 USING RC DRONES FOR PLOTTING IN DIFFERENT ECOSYSTEM TYPES** *Petar Dimov*

**P03\_04 MONITORING NITROGEN LEACHING IN ARABLE FIELDS AND ECOLOGICAL ASPECTS** *Tsetska Simeonova*

22 April 2015

## THEMATIC SESSION IV

# BIOTIC AND ABIOTIC IMPACT ON THE LIVING NATURE AND MECHANISMS OF ADAPTATION

*Chairmen: Prof. Svetlana Bancheva and Prof. Daniela Pilarska*


### Plenary presentations

9<sup>00</sup>-9<sup>15</sup> ON THE POSSIBLE CONTRIBUTION OF HSP70B AS A MARKER FOR OXIDATIVE STRESS AND/OR FOR CELL PROTECTION *Stephka Chankova and Nadezhda P. Yurina - PL04\_01*


9<sup>15</sup>-9<sup>30</sup> HAZARDS OF Cd CONTAMINATION *Galina Satchanska - PL04\_02*

### Oral presentations

9<sup>30</sup>-9<sup>40</sup> ROLE OF GENOTYPE AND EXPERIMENTAL DESIGN FOR *SACCHAROMYCES CEREVISIAE* DNA PROTECTION AGAINST ZEOCIN-INDUCED DOUBLE-STRAND BREAKS BY *CLINOPODIUM VULGARE* *Teodora Todorova, Daniela Miteva, Nadezhda Radovanova, Iviyana Ivanova and Stephka Chankova - L04\_01*

9<sup>40</sup>-9<sup>50</sup>  ASSESSING THE IMPACT OF UV-B RADIATION ON THE PHOTOSYNTHETIC APPARATUS OF TWO *PAULOWNIA* LINES GROWN IN SALINE SOILS *Martin Stefanov, E. Yotsova, Katya Ivanova, Y. Markovska, A. Dobrikova, E. Apostolova - L04\_02*

9<sup>50</sup>-10<sup>00</sup>  ANTIMICROBIAL EFFECT OF NANOSTRUCTURED THIN FILMS *Dragomira Stoyanova, Hristo Manolov, Orlin Angelov, Iliana Ivanova - L04\_03*

10<sup>00</sup>-10<sup>10</sup>  INVESTIGATIONS OF THE SENSITIVITY TO CADMIUM STRESS IN TWO WHEAT GENOTYPES *Ekaterina Yotsova, Svetlana Landjeva, Emilia Apostolova, Anelia Dobrikova - L04\_04*

11<sup>10</sup>-11<sup>20</sup>  ABIOTIC FACTORS INFLUENCING THE BEHAVIOUR OF MAMMALIAN MODEL SPECIES IN NP VITOSHA, BULGARIA *Elitsa Popova, Nikola Doykin, Valentin Zlatanov, Diana Zlatanova - L04\_05*

10<sup>20</sup>-10<sup>40</sup> Discussion

10<sup>40</sup>-11<sup>00</sup> Coffee break

*Chairmen: Prof. Svetlana Bancheva and Prof. Daniela Pilarska*

### Plenary presentations

11<sup>00</sup>-11<sup>15</sup> ARCHAEA ECOLOGY AND DIVERSITY IN HEAVY METALS AND RADIONUCLIDES CONTAMINATED AREAS *Galina Radeva - PL04\_03*



**Oral presentations**

**11<sup>15</sup>-11<sup>25</sup> GLOBAL CLIMATE CHANGES AS HOT SPOTS OF ECOTYPE VARIATION: A CASE STUDY WITH *PLATANUS ORIENTALIS* L. (PLATANACEAE)** Galya Petrova, Tsveta Ganeva, Silvia Fineschi, Francesco Loreto, Violeta Velikova - L04\_06

**11<sup>25</sup>-11<sup>35</sup> STATUS-QUO OF VIRUS DISEASES ON TOMATO CROPS GROWN IN SOUTHERN REGIONS OF BULGARIA** Gancho Pasey, Vesela Radeva-Ivanova, Dimitrina Kostova - L04\_07

**11<sup>35</sup>-11<sup>45</sup> DOES COMBINED TREATMENT WITH *CLINOPODIUM VULGARE* EXTRACT AND ZEOCIN PROTECT NUCLEAR DNA FROM ZEOCIN-INDUCED DAMAGES?** Nadezhda Radovanova, Iviyana Ivanova, Teodora Todorova and Stephka Chankova - L04\_08


**11<sup>45</sup>-11<sup>55</sup> HOW THE CYTOCHROME *b<sub>f</sub>* COMPLEX GOVERNS THE SHORT-TERM ADAPTIVE MECHANISM STATE TRANSITIONS IN OXYGENIC PHOTOSYNTHETIC SPECIES** Radka Vladkova - L04\_09


**11<sup>55</sup>-12<sup>15</sup> Discussion**


**12<sup>15</sup>-12<sup>45</sup> Lunch**


**Chairmen: Assoc. Prof. Tzenka Chassovnikarova and Assoc. Prof. Assen Assenov**

**Oral presentations**

**12<sup>45</sup>-12<sup>55</sup>  IN VIVO CALORIMETRIC CHARACTERIZATION OF PHYCOBILISOMES IN SYNECHOCYSTIS PCC6803** Nia Petrova, Sashka Krumova, Svetla Todinova, Anna Sallai, Tomas Zakar, Gombos Zoltan, Stefka Taneva - L04\_10

**12<sup>55</sup>-13<sup>05</sup>  CALORIMETRIC CHARACTERIZATION OF THE ORDERED/DISORDERED THYLAKOID MEMBRANE STATE IN ARABIDOPSIS** Nia Petrova, S. Todinova, W. Schröder, S. G. Taneva, S. Krumova - L04\_11

**13<sup>05</sup>-13<sup>15</sup>  METHODS, APPLICABLE TO THE ECOTOXICOLOGICAL BIOMONITORING OF TERRESTRIAL VERTEBRATES** Peter Ostoich, Michaela Nedialkova, Roumiana Metcheva - L04\_12

**13<sup>15</sup>-13<sup>25</sup>  BIOCHEMICAL RESPONSES OF THREE GENOTYPES OF *PHASEOLUS VULGARIS* L. TO SINGLE AND COMBINED TREATMENT WITH POLYETHYLENE GLYCOL AND UV-B IRRADIATION** Tsveta Angelova, Zhana Mitrovska, Petya Parvanova and Stephka Chankova - L04\_13

**13<sup>25</sup>-13<sup>35</sup> HEAVY METAL CONCENTRATIONS IN VEGETABLES WITH GROWTH STAGE AND PLANT SPECIES VARIATIONS** Snezana Stavreva Veselinovska - L04\_14

**13<sup>35</sup>-13<sup>45</sup> EVALUATION OF THE STATE OF THE WATERS OF THE STRUMESHNITSA RIVER ON BULGARIAN TERRITORY ACCORDING TO PHYSICO-CHEMICAL ELEMENTS FOR QUALITY** Svetla Ivanova - L04\_15

13<sup>45</sup>-14<sup>05</sup> Discussion

14<sup>05</sup>-14<sup>25</sup> Coffee break

## THEMATIC SESSION V

### ECOLOGY AND EDUCATION

*Chairmen: Prof. Roumiana Metcheva and Assoc. Prof. Galina Satchanska*


#### Plenary presentations

14<sup>25</sup>-14<sup>40</sup> ENVIRONMENTAL EDUCATION IN PARADIGM OF LIFELONG LEARNING *Nadezhda Raycheva - PL05\_01*

#### Oral presentations

14<sup>40</sup>-14<sup>50</sup>  PROJECT-BASED LEARNING ON “ECOVILLAGES” *Antoaneta Palahanska, Emilia Nikolova - L05\_01*

14<sup>50</sup>-15<sup>00</sup>  EDUCATION FOR SUSTAINABLE DEVELOPMENT – THE MODERN FACE OF THE ENVIRONMENTAL EDUCATION. THE TRANSITION IN HISTORICAL PLAN *Hristina Bancheva, Dilyanka Bezlova - L05\_02*

15<sup>00</sup>-15<sup>10</sup>  MODEL ON PROJECT-BASED TEACHING ON THE TOPIC OF: “GREEN BUILDINGS-THE NATURE IN OUR LIVES” *Ergyun Ibryam, Anna Krasteva, Cvetelina Ivanova - L05\_03*

## THEMATIC SESSION VI

### OTHER RELATED TOPICS

*Chairmen: Prof. Roumiana Metcheva and Assoc. Prof. Galina Satchanska*

#### Oral presentations

15<sup>10</sup>-15<sup>20</sup>  USE OF BIOMASS FROM ANTARCTIC YEAST STRAIN FOR THE REMOVAL OF METALS FROM AQUEOUS SOLUTIONS *Aleksandar Adamov, Snezhana Rusinova-Videva, Stefka Nachkova - L06\_01*

15<sup>20</sup>-15<sup>30</sup>  DATA INTEGRITY: A NEW LOOK AT AN OLD TOPIC *Anife Mahmud - L06\_02*

15<sup>30</sup>-15<sup>50</sup> Discussion

15<sup>50</sup>-16<sup>10</sup> Coffee break

16<sup>10</sup>- 17<sup>40</sup> Poster session I and Discussion

*Chairmen: Assoc. Prof. Marina Stanilova, Assist. Prof. Kalina Danova and Assist. Gergana Georgieva*

## POSTER SESSION II

### BIOTIC AND ABIOTIC IMPACT ON THE LIVING NATURE AND MECHANISMS OF ADAPTATION



**P04\_01 ECOLOGICAL STATE ASSESSMENT OF THE WATERS IN THE BULGARIAN SECTION OF THE STRUMESHNITSA RIVER AND LUDA MARA RIVER** *Marin Smilyanov, Emilia Varadinova*



**P04\_02 EFFECT OF NICKEL ON SEED GERMINATION IN TWO *ALYSSUM* HYPERACCUMULATOR SPECIES FROM SERPENTINES IN ALBANIA** *Donaltina Vila, Kalina Vila, Dolja Pavlova, Aida Bani*

**P04\_03 THE EFFECT OF ORGANIC AND CHEMICAL FERTILIZERS ON THE YIELD AND DISEASE RESISTANCE OF TOMATOES – FIELD PRODUCTION** *Sergey Bistrichanov, Ivanka Mitova, Zhelyu Avramov, Vanya Lozanova*

**P04\_04 MONITORING OF VIRAL DISEASES IN INDUSTRIAL VINEYARDS IN BULGARIA DURING THE PERIOD 2011 – 2015** *Mariyana Laginova, Zhelyu Avramov, Dora Panayotova*



**P04\_05 SPIDER COMMUNITY (ARANEAE) ON BELASITSA MOUNTAIN, SOUTH-EAST MACEDONIA** *Aleksandra Cvetkovska-Gjorgievska, Marjan Komnenov, Dana Prelić, Valentina Slavevska-Stamenković, Milica Ristovska*

**P04\_06 GROWTH-TEMPERATURE RATES OF *PHYTOPHTHORA* ISOLATES OBTAINED FROM VARIOUS ECOSYSTEMS IN BULGARIA** *Aneta Lyubenova, Slavtcho Slavov, Kaloyan Kostov, Ivaylo Tsvetkov*

**P04\_07 APPLICABILITY OF INDICATORS OF HYDROLOGICAL ALTERATION TO ASSESS THE CURRENT STATUS OF THE RIVER FLOW** *Bernardo Lizama Rivas, Ivanka Koleva-Lizama*

**P04\_08 INVESTIGATION OF THE ZOOPLANKTON AND THE CHLOROPHYLL A LEVEL IN “DOSPAT” DAM** *Doychin Terziyski, Vesselin Alexandrov, Veselka Tzavkova*

**P04\_09 ENVIRONMENTAL POLLUTION WITH TOXIC CHEMICALS – INFLUENCE ON THE BIOTA AND HUMAN HEALTH** *Irena Bogoeva*




**P04\_10 LIPID COMPOSITION, PHOTOSYNTHETIC AND BIOLOGICAL ACTIVITY OF *LACTUCA TATARICA* (L.) C.A. MAY** *Lilia Angelova, Albena Ivanova, Svetlana Momchilova, Iva Tsvetkova, Hristo Najdenski, Albena Momchilova, Liliana Maslenkova*




**P04\_11 STATISTICAL ANALYSIS OF METEOROLOGICAL FACTORS AND AIR POLLUTION IN SOFIA** *Ludmila Gosteva, Mariana Doncheva-Boneva, Ivanka Koleva-Lizama*


 **P04\_12 COMPETITION AMONG MIDDLE-SIZED CARNIVORES IN NP VITOSHA, BULGARIA** *Nikola Doykin, Elitsa Popova, Neli Ivanova, Valentin Zlatanov, Diana Zlatanova*

 **P04\_13 EFFECT OF SALT STRESS ON THE GROWTH AND ANTIOXIDANT DEFENSE OF TWO *LYCIUM* SPECIES** *Velmira Dimitrova, Teodora Georgieva, Katya Ivanova, Yuliana Markovska*

 **P04\_14 INFLUENCE OF A HERBIVORE INSECT, *ORCHESTES FAGIL.*, ON THE ANTIOXIDATIVE STATUS OF COMMON BEECH LEAVES** *Nadezhda Stefanova, Simona Georgieva, Svetoslav Anev, Petya Dimitrova-Mateva, Nikolina Tzvetkova, Miroslava Zhiponova, Ganka Chaneva*

 **P04\_15 THE CHOLINESTERASES AS BIOMONITORING MARKERS IN CASE OF POISONING OF ORGANISMS IN ECOTOXICOLOGICAL ENVIRONMENT** *Elitza Dencheva, Radoy Ivanov*


 **P04\_16 Cu(II) AND Co(II) COMPLEXES WITH THE SAME LIGANDS EXPRESS DIFFERENT CYTOTOXIC/CYTOSTATIC ACTIVITIES** *Desislav Dinev, Tanya Zhivkova, Lora Dyakova, Katya Popova, Boyka Andonova-Lilova, Abedulkadir Abudalleh, Gabriela Marinescu, Daniela-Cristina Culita, Luminita Patron, Radostina Alexandrova*

 **P04\_17 Zn(II) COMPLEXES WITH SCHIFF BASES DECREASE VIABILITY AND PROLIFERATION OF BOVINE KIDNEY CELLS** *Milena Glavcheva, Lora Dyakova, Desislav Dinev, Tanya Zhivkova, Katya Popova, Boyka Andonova-Lilova, Abedulkadir Abudalleh, Gabriela Marinescu, Daniela-Cristina Culita, Luminita Patron, Radostina Alexandrova*

**P04\_18 *FRAGARIA VESCA* L. – A NEW FOODPLANT TO THE IMAGO OF *ORCHESTES FAGI* L.** *Petya Dimitrova-Mateva, Nikolina Tzvetkova*

**P04\_19 MULTIPLICATION AND POLYPHENOLICS PRODUCTION OF *SIDERITIS SCARDICA* THROUGH DIFFERENT TISSUE CULTURE TECHNIQUES** *Petya Koleva, Ina Aneva, Ljuba Evstatieva, Kalina Danova*

## ECOLOGY AND EDUCATION

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**P05\_02 ENVIRONMENT POLLUTION FROM A FOOD CONTACT MATERIALS** *Snezhana Todorova*

**P05\_03 BIO-FIT PROJECT - PROMOTING ORGANIC FARMING BY TRAINING IN BIO-FERTILIZERS** *Ventsislava Petrova, Aleksander Savov, Kliment Petrov, Anna Kujumdzieva*

## **OTHER RELATED TOPICS**

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**P06\_02 LIQUID CRYSTALS, BIODIVERSITY AND ADAPTATION MECHANISMS OF LIVING MATTER** *Stefan Todorov*

**17<sup>40</sup> Film**

**18<sup>00</sup> AWARDS AND CLOSING PROCEDURE OF THE “SEMINAR OF ECOLOGY - 2016” WITH INTERNATIONAL PARTICIPATION**