

USB - SECTION BIOLOGY

INSTITUTE OF BIODIVERSITY AND ECOSYSTEM RESEARCH – BAS

INTERNATIONAL SEMINAR OF ECOLOGY - 2019



**DEDICATED TO THE 75th ANNIVERSARY OF
USB AND THE 150th ANNIVERSARY OF BAS**

18-19 April 2019

**Програма/Program
Абстракти/Abstracts**



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„INTERNATIONAL SEMINAR OF ECOLOGY- 2019“

DEDICATED TO THE 75th ANNIVERSARY OF USB AND THE 150th ANNIVERSARY OF BAS

April 18-19, 2019

Sofia

8⁰⁰ - 9⁰⁰ Registration (IBER-BAS-2 Gagarin Str., Sofia)

9⁰⁰ – 9³⁰ Opening Ceremony

9³⁰ – 9⁴⁵ Family photo

9⁴⁵-10⁰⁰ IBER-BAS Assoc. Prof. Anna Ganeva, PhD

THEMATIC SESSION ECOSYSTEM RESEARCH, SERVICES AND ECOLOGICAL AGRICULTURE

Chairmen: acad. Atanas Atanassov, DSc and prof. Snezhana Grozeva, PhD


Plenary presentation

1. 10⁰⁰-10³⁰ ECOLOGICAL AGRICULTURE, FOOD AND HEALTH. Atanas Atanassov, Ivelin Panchev, Goritsa Rakleova PL01_01

10³⁰ -10⁴⁵ Discussion

Oral presentations

1. 10⁴⁵-10⁵⁵ SYNTAXONOMICAL DIVERSITY OF VEGETATION IN GORNA MALINA MUNICIPALITY, WEST BULGARIA. Kiril Vassilev, Mediya Gumus, Gana Gecheva, Momchil Nazarov, Nikolay Velev L01_01
2. 10⁵⁵-11⁰⁵ ENVIRONMENTAL PARAMETERS OF SEAWATERS FROM THE SOUTH BAY, LIVINGSTON ISLAND, ANTARCTIC REGION. Lyubomir Kenderov, Stefan Kazakov, Monika Subeva, Vesela Evtimova, Marian Kenderov L01_02
3. 11⁰⁵-11¹⁵ SYNTAXONOMICAL DIVERSITY OF STRAZHATA HILL IN THE CENTRAL PART OF NORTH BULGARIA. Momchil Nazarov, Kiril Vassilev, Gana Gecheva, Constantin Mardari, Nikolay Velev L01_03

4. 11¹⁵-11²⁵  CARBON STORAGE IN URBAN DENDROFLORA OF TOWN SEVLIEVO, BULGARIA. *Simona Stoyanova, Mariyana Lyubenova* L01_04
5. 11²⁵-11³⁵ LOCAL PLANT RACES AND RELATED TRADITIONAL ECOLOGICAL KNOWLEDGE FOR SUSTAINABLE FARMING. *Dessislava Dimitrova, Teodora Ivanova, Yulia Bosseva* L01_05

11³⁵-12⁰⁰ Discussion

12⁰⁰-13⁰⁰ Lunch

THEMATIC SESSION ECOLOGY AND EDUCATION

Chairmen: prof. Boyko Georgiev, DSc and prof. Lyubomir Penev, PhD

Plenary presentations

1. 13⁰⁰-13³⁰ RESEARCH INTEGRITY *Lyubomir Penev* PL02_01
2. 13³⁰-14⁰⁰ NATIONAL STANDARDS AND CURRICULA - ANALYSIS REGARDING ECOLOGICAL KNOWLEDGE, SKILLS, ATTITUDES AND VALUES. *Kamelia Yotovska, Victoria Necheva* PL02_02

Oral presentations

1. 14⁰⁰-14¹⁰ GETTING FAMILIAR WITH AND CONSERVING THE NOCTURNAL BIRDS OF PREY IN BULGARIA - EDUCATION THROUGH THEATER. *Plamen Glogov, Blagoi Koichev, Despina Poupaki, Mira Georgieva, Gergana Zaemdzikova, Radoslav Panorov, Violeta Glogova* L02_01

14¹⁰-14³⁵ Discussion

THEMATIC SESSION BIOTIC AND ABIOTIC IMPACT ON THE LIVING NATURE AND MECHANISMS OF ADAPTATION

Chairmen: assoc. prof. Ekaterina Kozuharova, PhD and assoc. prof. Yanka Vidinova, PhD

Plenary presentations

1. 14³⁵-15⁰⁵ EXPERT COUNCIL FOR EVALUATION OF PRIORITY SUBSTANCES UNDER THE MINISTER OF ENVIRONMENT AND WATER *Elena Zidarova* PL03_01

2. 15⁰⁵-15³⁵ THE BIOUPTAKE AND TOXICITY OF ARSENIC SPECIES ON THE GREEN MICROALGA *CHLORELLA SALINA* IN SEAWATER. *Irina Karadjova*
PL03_02

15³⁵-16⁰⁰ Discussion

Oral presentations

1. 16⁰⁰-16¹⁰ INFLUENCE OF LONG-TERM CONTAMINATION WITH HEAVY METALS ON SOIL BACTERIAL COMMUNITY STRUCTURE. *Galina Radeva, Roumen Dimitrov, Michaella Aleksova, Daniel Palov, Magdalena Nikolova, Nikolai Dinev, Anelia Kenarova, Silvena Boteva* L03_01
2. 16¹⁰-16²⁰ NICOTINE AND NICOTINE GLUCURONIDE DYNAMICS IN *HABERLEA RODOPENSIS* FRIV. METABOLISM AS A RESULT OF DROUGHT STRESS AND REHYDRATION. *Krum Bardarov, Elena Apostolova, Galina Yahubyan, Teodora Todorova, Valentina Toneva, Ivan Minkov* L03_02
3. 16²⁰-16³⁰ HEALTH STATUS OF SCOTS PINE PLANTATIONS IN SOUTHWESTERN BULGARIA (2006-2018). *Margarita Georgieva, Georgi Georgiev, Gergana Zaemdzhikova, Maria Matova, Eva Filipova, Dimitar Nedjalkov, Petar Petkov, Plamen Mirchev* L03_03


16³⁰-16⁵⁵ Discussion

16⁵⁵-17¹⁰ Coffee break

17¹⁰- 19¹⁰ Poster sessions and Discussion

Chairmen: assoc. prof. Margarita Topashka, PhD and assoc. prof. Marina Stanilova, PhD

POSTER SESSION THEMATIC SESSION ECOSYSTEM RESEARCH, SERVICES AND ECOLOGICAL AGRICULTURE

P01_01  WHAT DO WE KNOW ABOUT THE VEGETATION AND HABITAT DIVERSITY OF THE WESTERN AND CENTRAL RHODOPE MTS, SOUTHERN BULGARIA? *Beloslava Genova, Ivan Minkov, Momchil Nazarov, Gana Gecheva, Kiril Vassilev*

P01_02  WHAT DO WE KNOW ABOUT THE VEGETATION AND HABITAT DIVERSITY OF THE SOUTHERN BLACK SEA COAST AND STRANDZHA MT.,


SOUTHEASTERN BULGARIA? *Ivan Minkov, Momchil Nazarov, Beloslava Genova, Gana Gecheva, Kiril Vassilev*

P01_03  **ASSESSMENT OF NATURAL REGENERATION OF QUERCUS FRAINETTO TEN. FORESTS IN MALESHEVSKA MOUNTAIN.** *Iliana Todorova, Mariana Lyubenova*

P01_04 **VEGETATION AND HABITAT DIVERSITY OF IHTIMAN, KOSTENEST, DOLNA BANYA AND SAMOKOV MUNICIPALITIES – DEGREE OF KNOWLEDGE AND FUTURE PERSPECTIVES.** *Momchil Nazarov, Nikolay Velev, Kiril Vassilev*

P01_05  **ASSESSMENT OF THE HABITAT DIVERSITY AND DISTRIBUTION OF MELLIFEROUS PLANTS IN KRIVODOL MUNICIPALITY, NORTHWESTERN BULGARIA.** *Nikolay Nikolov, Borislav Grigorov, Kiril Vassilev, Momchil Nazarov*

P01_06 **APPLICABILITY OF SENTINEL 2 MSI L1C PRODUCTS IN EUTROPHICATION ASSESSMENT OF SMALL FLOODPLAIN LAKES.** *Stefan Kazakov, Valko Biserkov, Luchezar Pehlivanov, Stoyan Nedkov*

P01_07  **ECOLOGICAL STATUS ASSESSMENT OF RUNNING WATERS OF BOGDAN AND UCHILISHTNA GORA MANAGED RESERVES, SOFIA PROVINCE, BULGARIA.**
Radka Fikova, Emilia Varadinova, Lachezar Yakimov and Lyubomir Kenderov

THEMATIC SESSION


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

P03_01 **MULTI-BIOMARKER ASSESSMENT IN COMMON CARP (CYPRINUS CARPIO, LINNAEUS 1785) LIVER AFTER CHLORPYRIFOS EXPOSURE.** *Stela Stoyanova, Georgieva E., Velcheva I., Iliev I., Vasileva T., Bivolarski V., Yancheva V.*


P03_02 **CHLORPYRIFOS CHANGES THE PHYSIOLOGY OF COMMON CARP (CYPRINUS CARPIO LINNAEUS, 1785).** *Vesela Yancheva, Velcheva I., Georgieva E., Mollov I., Stoyanova S.*

P03_03 **EFFECT OF DIFFERENT LEVELS OF NITROGEN ON TWO WHEAT GENOTYPES UNDER CADMIUM STRESS.** *Ekaterina Yotsova, Anelia Dobrikova, Martin Stefanov, Svetlana Misheva, Monika Bardáčová, Jana Moravčíková, Ildikó Matušíiková, Emilia Apostolova*

P03_04 **TRITERPENOIDS AND PHYTOSTEROLS IN INULA ENSIFOLIA L.** *Eli Kostadinova, Angel Konakchiev, Milka Todorova, Antoaneta Trendafilova*


P03_05  **LIGHT RECIPES AFFECT DIFFERENTIALLY PISUM SATIVUM L. SEEDLING GROWTH AND LEAF PHENOLICS CONTENT.** *Miroslava Zhiponova, Momchil Paunov, Svetoslav Anev, Dobrina Pecheva, Siyana Dimitrova, Janeta Georgieva, Zornitsa Karcheva, Aneliya Raycheva, Vasilij Goltsev, Nikolina Tsvetkova, Kiril Sapunov, Ganka Chaneva*

P03_06 BACTERIAL COMMUNITY RESPONSE TO THE EFFECT OF FUNGICIDE AZOXYSTROBIN IN MESOCOSM EXPERIMENT. *Michaella Aleksova, Anelia Kenarova, Silvena Boteva, Radina Karastoyanova, Galina Radeva*

P03_07  **PHOTOSYNTHETIC RESPONSES AND TOLERANCE OF SALVIA TO ZN AND CD EXPOSURE.** *Anelia Dobrikova, Prezlava Borisova, Ekaterina Yotsova, Georgi Rashkov, Emilia Apostolova, Michael Moustakas*

P03_08  **CANOPY EFFECTS ON THE DISTRIBUTION OF *GOODYERA REPENS* (ORCHIDACEAE) – PRELIMINARY RESULTS FROM HEMISPHERICAL IMAGING ANALYSIS.** *Andrey Popatanasov, Asen Asenov*

P03_09 EFFECT OF VITAMINS AND PLANT GROWTH REGULATORS TREATMENTS ON CAFFEOYLQUINIC ACIDS IN *INULA BRITANNICA* SHOOT CULTURES. *Antoaneta Trendafilova, Milka Todorova, Miroslav Rangelov, Kalina Danova*

P03_10  **CONTENT OF HEAVY METALS AND TOXIC ELEMENTS IN THE SOILS FROM THE PARK ZONE OF NATURE MONUMENT “MLADEZHKI HALM” (PLOVDIV, BULGARIA).** *Bogdan Nikolov, Slaveya Petrova, Iliana Velcheva, Elena Zheleva, Penka Zapryanova, Ekaterina Valcheva*

P03_11 ASSESSMENT OF BACTERIAL CAPACITY TO TAKE PART IN SOIL CARBON CYCLING UNDER THE IMPACT OF HEAVY METAL POLLUTION. *Silvena Boteva, Anelia Kenarova, Nikolai Dinev, Galina Radeva, Michaela Alleksova, Roumen Dimitrov, Nelya Mishkina*

19 April 2019

**THEMATIC SESSION
BIOTIC AND ABIOTIC IMPACT ON THE LIVING NATURE
AND MECHANISMS OF ADAPTATION**

Chairmen: assoc. prof. Galina Radeva, PhD and assoc. prof. Ventsislava Petrova, PhD

Plenary prenestation

1. **9⁰⁰-9³⁰ DECODING CELL QUIESCENCE – THE YEAST MODEL.** *Ventsislava Petrova, Anna Tomova, Anna Kujumdzieva* **PL03_03**

Oral presentations

1. **9³⁰-9⁴⁰ AZOXYSTROBIN EFFECTS ON BACTERIAL FUNCTIONAL PROFILES IN RELATION TO THE EXPOSURE TIME AND LEVELS OF SOIL POLLUTION.** *Michaella Aleksova, Anelia Kenarova, Silvena Boteva, Galina Radeva* **L03_04**
2. **9⁴⁰-9⁵⁰ BIOACTIVITY OF *ORIGANUM VULGARE* SUBSP. *HIRTUM* METHANOLIC EXTRACT AND ESSENTIAL OIL ON DIFFERENT TEST SYSTEMS** *Petya Parvanova, Mariya Yovkova, Maria Dimitrova, Stephka Chankova* **L03_05**
3. **9⁵⁰-10⁰⁰ OPTIMIZATION OF CFGE FOR *SACCHAROMYCES CEREVISIAE* STRAIN WITH A WILD TYPE CELL WALL STRUCTURE** *Teodora Todorova, Petya Parvanova, Maria Dimitrova, Zhana Mitrovska, Stephka Chankova* **L03_06**
4. **10⁰⁰-10¹⁰ CORRELATION BETWEEN ANEMIA AND BLOOD LEVELS OF IRON AND OTHER HEAVY METALS** *Snezana Stavreva Veselinovska, Anastasija Stavreva* **L03_07**

10¹⁰-10³⁵ Discussion

10³⁵-10⁵⁵ Coffee Break

THEMATIC SESSION

BIODIVERSITY AND CONSERVATION BIOLOGY

Chairmen: prof. Nesho Chipev, PhD and assoc. prof. Assen Assenov, PhD

Plenary presentations

1. 10⁵⁵-11²⁵ FLUORESCENT *IN SITU* HYBRIDIZATION (FISH) – FIELDS OF APPLICATION AND GOOD EXAMPLES OF APPLYING IN TAXONOMIC AND PHYLOGENETIC STUDIES OF THE INSECTS WITH HOLOKINETIC CHROMOSOMES. *Snejana Grozeva* - PL04_01
2. 11²⁵-11⁵⁵ THE CONSERVATION CHIMERA OR WHAT WE LOSE WHEN WE WIN. *Nesho Chipev* - PL04_02

11⁵⁵-12²⁰ Discussion


Oral presentations




1. 12²⁰-12³⁰ CREATION OF A PERMANENT SETTING FOR THE ASSESSMENT OF THE IMPACT OF CLIMATE CHANGE ON FLORISTIC DIVERSITY IN THE VITOSHA MT., BULGARIA. *Svetlana Bancheva*. L04_01
2. 12³⁰-12⁴⁰ A THERMOPHILE EXISTING IN ANTARCTICA. *Anna Bratchkova, Veneta Ivanova, Adriana Gousterova, Jordan Manasiev, Dilnora Gouliamova, Margarita Stoilova-Disheva, Svetla Danova* L04_02
3. 12⁴⁰-12⁵⁰  COMPARATIVE GENETIC ANALYSIS OF SUBFOSSIL DOGS (FROM THE NEOLITHIC AGE AND LATE ANTIQUITY) AND PRESENT-DAY LOCAL DOGS FROM BULGARIA. *Iskra Yankova, Miroslav Marinov, Nikolai Spassov, Peter Hristov, Georgi Radoslavov* L04_03

12⁵⁰-13¹⁵ Discussion

13¹⁵-14¹⁵ Lunch

Chairmen: prof. Svetlana Bancheva, PhD and prof. Snezana Veselinovska, PhD

4. 14¹⁵-14²⁵ BENTHIC MACROINVERTEBRATE DIVERSITY IN RELATION TO ENVIRONMENTAL PARAMETERS AND ECOLOGICAL STATE/POTENTIAL OF BULGARIAN LAKES AND RESERVOIRS. *Galia Georgieva, Yordan Uzunov, Emilia Varadinova* L04_04
5. 14²⁵-14³⁵  CLADOCERAN AND COPEPOD (CRUSTACEA) COMPLEXES FROM EIGHT BULGARIAN RESERVOIRS. *Monika Subeva, Vesela Evtimova, Luybomir Kenderov* L04_05

6. 14³⁵-14⁴⁵  OCCUPANCY OF THE GREY WOLF (*CANIS LUPUS*) AND ITS PREY – THE ROE DEER (*CAPREOLUS CAPREOLUS*) AND WILD BOAR (*SUS SCROFA*) IN OSOGOVO MNT. *Nikolay Dolapchiev, Diana Zlatanova, Elitsa Popova, Nikola Doykin* L04_06
7. 14⁴⁵-14⁵⁵  HELMINTH FAUNA IN BATS IN BULGARIA: CURRENT KNOWLEDGE, PROBLEMS AND FUTURE STUDIES. *Stoyan Goranov, Zlatka Dimitrova, Boyko Georgiev* L04_07
8. 14⁵⁵-15⁰⁵  IS THE ECOLOGICAL STATUS ASSESSMENT DEPENDENT/DIFFER BETWEEN SEASON AND SOURCE OF DISTURBANCES AT MOUNTAINOUS AND SEMI-MOUNTAINOUS STREAMS - TESTED VIA DIFFERENT BIOTIC INDICES BASED ON BENTHIC MACROINVERTEBRATES. *Biljana Rimcheska, Yanka Vidinova* L04_08

15⁰⁵-15³⁰ Discussion

15³⁰-15⁴⁵ Coffee Break

THEMATIC SESSION OTHER RELATED TOPICS

Chairmen: prof. Stephka Chankova, PhD and prof. Vlada Peneva, PhD

Plenary presentation

1. 15⁴⁵-16¹⁵ FOSSIL BIOMOLECULES AND NUCLEIC ACIDS - NEW OPPORTUNITIES FOR RECONSTRUCTION OF PLANT EVOLUTION AND CHANGES IN THE ENVIRONMENT *Dimiter Ivanov* PL05_01


THEMATIC SESSION LANDSCAPE ECOLOGY

Plenary presentations

1. 16¹⁵-16⁴⁵ LANDSCAPE ECOLOGY AND ECOSYSTEM BENEFITS IN ACTION: DISTRICT MANAGEMENT PLANS FOR FOREST TERRITORIES IN BULGARIA. *Bilyana Borisova, Stoyan Nedkov, Miglena Zhiyanski, Ana Dimitrova, Petar Penchev* PL06_01

16⁴⁵-17¹⁰ Discussion

Oral presentations

1. 17¹⁰-17²⁰ THE CONNECTION: ECOSYSTEMS IN BULGARIA AND HOLLYWOOD. *Borislav Grigorov, Assen Assenov* L06_01
2. 17²⁰-17³⁰  ANALYSIS OF THE ANTHROPOGENIZATION OF THE LANDSCAPES IN THE AREA OF PLOVDIV AGGLOMERATION. *Ilija Tamburadzhiev* L06_02
3. 17³⁰-17⁴⁰ ALKALIZATION OF TECHNOGENIC SOILS FROM THE TERRITORY OF THE KREMIKOVTSI MK. *Mariela Stoikova* L06_03

17⁴⁰-18⁰⁵ Discussion

18⁰⁵- 19⁴⁵ Poster sessions and Discussion

Chairmen: assoc. prof. Margarita Topashka, PhD and assoc. prof. Marina Stanilova, PhD

POSTER SESSION BIODIVERSITY AND CONSERVATION BIOLOGY

P04_01 LIVINGSTON ISLAND, ANTARCTICA - FORMER AND PRESENT STUDIES ON TERRESTRIAL NEMATODES. *Milka Elshishka, Alexander Mladenov, Denitsa Apostolova, Galin Gospodinov, Svetlozara Daneva, Vlada K. Peneva*

P04_02  **ORCHIS PINETORUM** BOISS. & **KOTSCHY** (ORCHIDACEAE) IN ZNEPOLE REGION, BULGARIA. *Andrey Popatanasov, Asen Asenov.*

P04_03 **VIOLA DELPHINANTHA** BOISS., ON PANGEON MT, NORTH-EASTERN GREECE. *Asen Asenov*

P04_04  **WHAT MORE HIDES BULGARIAN FLORA? CRYPTIC SPECIATION IN THE ANEURA PINGUIS COMPLEX.** *Galina Gospodinov, Rayna Natcheva*

P04_05 NEW DATA ON ASCOMYCOTA IN ALBANIA *Dimitar Stoykov*

P04_06  **ANALYSIS OF MACROELEMENTS CONTENT IN FOLIAGE SAMPLES FROM MAIN TREE SPECIES IN WESTERN BULGARIA.** *Eva Filipova, Margarita Georgieva, Georgi Georgiev, Maria Matova, Gergana Zaemdzhikova, Plamen Mirchev*

P04_07 A NEW YELLOW-FRUIT FORM OF **ILEX COLCHICA** POJARK. IN STRANDZHA. *Diko Patronov, Evgeni Tsavkov*

P04_08 ACTIVITY PATTERNS OF THE RED DEER (**CERVUS ELAPHUS** L.) – A COMPARISON OF TWO METHODOLOGICAL APPROACHES. *Elitsa Popova, Diana Zlatanova, Atidzhe Ahmed, Rossen Andreev, Ivan Stepanov, Blagoy Koichev*

P04_09 THRACIAN BURIAL MOUNDS – REFUGEE ISLANDS FOR BIODIVERSITY PRESERVATION. *Iva Apostolova, Balázs Deák, Anna Ganeva, Desislava Sopotlieva, George Nehrizov, Kiril Vassilev, Magdalena Valcheva, Nadya Tsvetkova, Nikolay Velev, Salza Palpurina, Tsvetana Popova, Tsvetelina Terzyiska, Vassil Vassilev, Veselin Shivarov, Yassen Stoyanov*

P04_10 NEW DATA ON THE SPECIES COMPOSITION OF THE GENUS SOBOLEVICANTHUS SPASSKII & SPASSKAYA, 1954 (CESTODA) FROM ANATIDAE IN BULGARIA. *Margarita H. Marinova*

P04_11  **A REVIEW OF THE INSECT PESTS ASSOCIATED WITH CUPRESSACEAE FAMILY IN THE URBAN AREAS IN BULGARIA.** *Stoyka Ruseva*

P04_12  **BIOLOGY OF REPRODUCTION, BREEDING SYSTEMS AND EVOLUTIONARY TRENDS IN PLANTS.** *Hristo Valchev, Ekaterina Kozuharova*

P04_13 POPULATION STATE OF *JUNIPERUS EXCELSA* (CUPRESSACEAE) IN BULGARIA *Aneta Lambevskya-Hristova, Svetlana Bancheva*

THEMATIC SESSION OTHER RELATED TOPICS

P05_01 PALAEOECOLOGICAL AND GEOMORPHOLOGICAL STUDIES OF PEAT BOG (2240 M A.S.L.) IN NORTH-WESTERN PIRIN MOUNTAIN (PRELIMINARY RESULTS). *Juliana Atanassova, Dimitar Krenchev*

19⁴⁵-19⁵⁵ Film

19⁵⁵ AWARDS AND CLOSING PROCEDURE