

**SYMPOSIUM
'ECOLOGY AND PROTECTION OF
ECOSYSTEMS' THE XIIITH EDITION**

4nd – 5th of November 2021
BACAU, ROMANIA

PROGRAMME

2021

Scientific committee

PhD Professor KLAUS WERNER BATTES, "Vasile Alecsandri" University of Bacau

PhD Professor NICOLAE BARABAŞ, "Vasile Alecsandri" University of Bacau

PhD Associate Professor ANGELA MARIA BĂNĂDUC, "Lucian Blaga" University, Sibiu

PhD MARIAN PETRE BREZEANU, senior researcher, manager of Vegetable Research and Development Station Bacau

PhD Professor DAN COGĂLNICEANU, C.M. of the Romanian Academy, "Ovidius" University, Constanta

PhD MIHAIL COMAN, senior researcher, Member of the Academy of Agricultural and Forestry Sciences, Research Institute for Fruit Growing, Pitesti-Maracineni

PhD Professor MARIETA COSTACHE, University of Bucharest

PhD Professor GOGU GHIORGHITĂ, "Vasile Alecsandri" University of Bacau

PhD Professor GHEORGHE GLĂMAN, member of the Academy of Agricultural and Forestry Sciences, president of Romanian Horticulture Association

PhD Professor Habil. LUCIAN GORGAN, "Alexandru Ioan Cuza" University, Iasi

PhD GABRIELA GURĂU, senior researcher, manager of "Ion Borcea" Natural Sciences Museum Complex of Bacau

PhD Professor Habil. LUCIAN HRIȚCU, "Alexandru Ioan Cuza" University, Iasi

PhD Associate Professor MIHAI LEȘANU, Dean of the Faculty of Biology and Pedology, Moldova State University, Chisinau

PhD DUMITRU MURARIU C.M. of the Romanian Academy, senior researcher, Institute of Biology, Bucharest

PhD Professor VALENTIN NEDEFF, President of the Senate of "Vasile Alecsandri" University, Bacau

PhD LUIS-OVIDIU POPA, general manager of National Museum of Natural History "Grigore Antipa", Bucharest

PhD Associate Professor FERDINANT PRICOPE, "Vasile Alecsandri" University of Bacau

PhD Associate Professor MARIA PRISECARU, "Vasile Alecsandri" University of Bacau

PhD Professor LASZLO RAKOSY, "Babeş-Bolyai" University, Cluj-Napoca

PhD Professor IOAN VIOREL RAȚI, "Vasile Alecsandri" University of Bacau

PhD Professor GETA RIȘNOVEANU, University of Bucharest

PhD Professor CAROL SCHNAKOVSKY, Rector of "Vasile Alecsandri" University of Bacau

PhD Associate Professor ANDA SIMON GRUIȚA, University of Bucharest

PhD Associate Professor MARIUS SKOLKA, Dean of the Faculty of Natural and Agricultural Sciences, "Ovidius" University of Constanta

PhD Professor FLORIN STĂNICĂ, vicerector of the University of Agronomic Sciences and Veterinary Medicine, Bucharest

PhD MARIAN TUDOR, senior researcher, general manager of "Danube Delta" National Institute for Research and Development, Tulcea

PhD Professor LAURENȚIA UNGUREANU, Director of the Institute of Zoology, Academy of Sciences of Moldova, Chisinau

PhD Associate Professor CAMELIA URECHE, "Vasile Alecsandri" University of Bacau

PhD Associate Professor DOREL URECHE, vicepresident of the Institute for Research, Development, Innovation, Consulting, and Technological Transfer, "Vasile Alecsandri" University of Bacau

PhD Professor DAN-IOAN VÂRBAN, University of Agronomic Sciences and Veterinary Medicine, Cluj-Napoca

Organizing Committee

PhD Professor IOAN VIOREL RAȚI

PhD Associate Professor CAMELIA URECHE

PhD Lecturer MILIAN GURĂU

PhD Lecturer DUMITRA RĂDUCANU

PhD Lecturer DANIELA NICUȚĂ

PhD Lecturer ROXANA ELENA VOICU

PhD Lecturer IONUȚ VIOREL STOICA

PhD Lecturer DIANA ELENA MAFTEI

Secretariate: PhD Lecturer IONUȚ VIOREL STOICA

SESSION PROGRAM

Thursday, November 4th 2021

09:00 – 09:15 - The official opening of the Symposium
"Ecology and protection of ecosystems 2021"

Plenary oral presentations

09:15 – 10:15

MIHAIL COMAN - Member of the Academy of Agricultural and Forestry Sciences

New challenge of fruit growing in Romania

PETRE MARIAN BREZEANU*, **CREOLA BREZEANU**

* Manager of Vegetable Research and Development Station Bacau

*SHAPING THE FUTURE OF ORGANIC BREEDING & FARMING
challenges and achievements of vegetable sector*

Biodiversity of aquatic organisms

10:15 – 11:00 - Oral presentations

Moderators:

Codruța Mihaela Dobrescu

Daniela Nicuță

ROMULUS-MARIAN PAIU, COSTIN TIMOFTE, DIMITAR POPOV,
PAVEL GOLDIN, DUMITRU MURARIU

Cetacean-fisheries interaction in the Black Sea

DANIELA NICOLETA HOLOSTENCO, MITICĂ CIORPAC, SIRIN
FIRIDIN, OGUZHAN EROGLU, DEVRIM MEMIŞ, MARIAN
PARASCHIV, ŞTEFAN HONȚ, MARIAN IANI, RADU SUCIU,
KATARINA TOŠIĆ, ELENA TAFLAN, DANIELA POREA, ÎLHAN AYDIN,
JÖRN GESSNER, PETRA KERSTEN, KLAUS KOHLMANN, GETA
RÎȘNOVEANU

Genetic population structure of the critically endangered stellate sturgeon (*Acipenser stellatus*) in the Black Sea basin: implications for conservation and sustainable use

MIHAELA MAFTEI, ROXANA-ELENA VOICU, CAMELIA URECHE,
DOREL URECHE

Data concerning the structure of the mayfly communities (Insecta: Ephemeroptera) in the lower basin of the River Mures (Romania)

11:00 – 11:15 - Coffee break

Biodiversity of terrestrial organisms

11:15 – 13:00 - Oral presentations

Moderators:

Codruța Mihaela Dobrescu
Daniela Nicuță

**FLORIN CRISTIAN MARIN, EMIL CHIȚU, MIRELA CĂLINESCU,
MIHAELA SUMEDREA, IVONA MAZILU, FLORIN PLĂIAȘU**

Multisensorial quantification of water and biocenotic stress in fruit growing by phytomonitoring and early warning in conditions of climate changes

IOAN VIOREL RAȚI, CĂTĂLINA CHICURUȘ, DUMITRA RĂDUCANU

The morphological biodiversity of high potential sea buckthorn (*Hippophae rhamnoides*) varieties and hybrids

**MARIUS SKOLKA, OVIDIU DRĂGAN, ANA MARIA DRĂGAN,
ȘTEFAN MANOLESCU, CRISTINA PREDĂ, CARLA FLAVIA
GAVRILESCU**

Species of community interest as indicators of the conservation status of natural habitats

CARLA FLAVIA GAVRILESCU, CRISTINA PREDĂ

The structure of the epigeous fauna in mountain habitats from the Fagaras and Iezer Papusa Mountains

GURĂU MILIAN

Association *Aegopodio podagrariae-alnetum glutinosae* Karpati et Jurko 1961 with *Vitis silvestris* from Bistrița River meadow

MARIUS SKOLKA, CARLA FLAVIA GAVRILESCU, RODICA PLĂIAȘU, OVIDIU DRĂGAN

The diversity of entomofauna from riparian habitats in Făgăraș Mountains

TINA OANA CRISTEA, GABRIEL-ALIN IOSOB, ALEXANDRU BUTE, DAN-IOAN AVASILOAIEI, DANIELA BOURUC

Plant pests and diseases in some vegetables cultures from Vegetable Research and Development Station Bacau

MARIUS MIRODON FĂGĂRAȘ, ALINA DAIANA SPÂNU, SILVIU COVALIOV

The impact of the works to reduce the coastal erosion in the northern area of the Chituc sandbank on the habitats of community interest and the specific vegetation

GABRIEL-ALIN IOSOB

Observations regarding the celery fly (*Euleia heraclei* L.) in lovage (*Levisticum officinale* W.D.J. Koch) culture from Vegetable Research and Development Station Bacau

GURĂU MILIAN

Forests with pine trees (*Taxus baccata*) and yew (*Pinus silvestris*) from Oituz private forest district

DANIEL - IOAN MAFTEI, DIANA - ELENA MAFTEI

Some aspects on the conservation status of the 8210 habitat - 'Rocky ridges with chasmophytic vegetation on calcareous rocky slopes' within the Natura 2000 ROSCI 0212 site in Rarău – Giupalău

**GEORGIANA DUȚĂ CORNESCU, NICOLETA CONSTANTIN,
DANIELA MARIA POJOGA, ALEXANDRA SIMON GRUIȚA**

Analysis of genetic diversity in two cultivated sorghum varieties in the context of climate change in Romania

13:00 – 14:00 - Lunch break

*Biotechnologies for environmental protection
and resources' valorization*

14:00 – 15:45 - Oral presentations

Moderators:

Dumitra Răducanu

Ana-Maria Roșu

LUCIAN HRIȚCU, RĂZVAN ȘTEFAN BOIANGIU, ION BRÎNZĂ

Flavonoids as natural phenolic compounds for enhancing memory and antioxidant application in neurodegenerative disorders

ORTANSA CSUTAK, VIORICA CORBU

Two new yeast strains with applications in bioremediation of oil-polluted environments

**ANA-MARIA ROȘU, DANIELA NICUȚĂ, CATHERINE RAFIN,
ETIENNE VEIGNIE**

Valorization of agro-alimentary wastes in environmental depollution

**TEODORESCU CONSTANTIN, LUCIAN FLOREA, ADRIAN
MIHALACHE, MITICĂ POPA**

Modern cultivation technologies in fruit growing for seed and stone species through the implementation of innovative results (varieties, vegetative rootstock, grafting)

OPREA GEORGIANA, ROBEA MĂDĂLINA, CIOBICĂ ALIN, BALMUȘ IOANA MIRUNA, PLAVAN GABRIEL

Valproic acid effects on the aggressivity and locomotor activity in autism spectrum disorders

LĂCRĂMIOARA RUSU, ELENA-MIRELA SUCEVEANU, CRISTINA-GABRIELA GRIGORAȘ, ANDREI-IONUȚ SIMION, ANDREEA VERONICA DEDIU BOTEZATU

Removal of ethacridine lactate from aqueous solutions using biosorbents based on residual microbial biomass: fixed- bed column studies

VASILICA-ALISA ARUȘ, NICOLETA PLATON, ANA-MARIA GEORGESCU, ILEANA-DENISA NISTOR

Retention process of lactic acid on hydrotalcite-type anionic clay

BALMUȘ IOANA MIRUNA, LEFTER RADU, COJOCARIU ROXANA, CIOBICĂ ALIN, GORGAN LUCIAN

Animal models used in studying the irritable bowel syndrome

IONUȚ-DANUȚ COSTACHE, MIGUEL OLIVEIRA, MONICA ALMEIDA, CAMELIA URECHE, DOREL URECHE

Effect of nicotine on the development of ovarian carcinoma

15:45 – 16:00 - Coffee break

Ecology and sustainable development

16:00 – 18:00 - Oral presentations

Moderators:

Anca Nicoleta Şuţan

Diana-Elena Maţei

DACIANA SAVA, RALUCA ROŞOAGĂ

Fântâniţa Murfatar Natural Reserve - general presentation, anthropic impact analysis and proposals for protection measures and conservation

LILIANA CRISTINA SOARE, OANA-ALEXANDRA DRĂGHICEANU, ANCA NICOLETA ŞUŢAN

The allelopathic potential of *Erigeron annuus* (L.) desf. subsp. *annuus* extracts on crop species

MARIUS SKOLKA, DANİYAR MEMEDEMİN, CARLA FLAVIA GAVRILESCU, ALEXANDRA ŞOIMU, ANDREEA BOHOLTEANU

Grazing versus diversity. Mountain and alpine grasslands in the Romanian Carpathians
Case study - pastures in Făgăraş Mountains, Haţegului County, Metaliferi Mountains

SERGIU FLOREA, SEBASTIAN CUCUIAT, VLADUŢ TOMŞA

Green4care - EU blueprint on green care & green care tourism

MARIA CRISTINA PONEPAL, GHEORGHİȚA BRÎNȚEA, ALINA PĂUNESCU

Evaluation of histophysiological alterations in respiratory process associate with fipronil administration in European chub

CARMEN GACHE

Arcuda station (Joița - Giurgiu, Romania) as suitable area for protected bird species

MARIUS SKOLKA, RODICA PLĂIAȘU, RALUCA BĂNCILĂ, CARLA FLAVIA GAVRILESCU, ANDREEA BOHOLTEANU, ADRIAN PURICE, VALENTIN CROITORU

Diversity of epigeous fauna from anthropogenic impacted forests

OANA-ALEXANDRA DRĂGHICEANU, CODRUȚA MIHAELA DOBRESCU, LILIANA CRISTINA SOARE

The effect of spores extracts with green synthesized bimetallic nanoparticles on *Cucumis sativus* L.

MARIUS SKOLKA, ANDREEA BOHOLTEANU

Epigeous fauna from deforested areas - Valea Valsanului case study

ALEXANDRU BUTE, CREOLA BREZEANU, PETRE MARIAN BREZEANU, DANIELA BOURUC, ANDREEA ANTAL-TREMURICI

Promising Brassica Traits for Multipurpose Uses overview and steps to improve crops competitiveness

GABRIELA MIHAELA PARASCHIV, DACIANA SAVA, MANUELA
DIANA SAMARGIU, GABRIELA FLOFINA STANCIU

Study of planktonic trophic resources from the offshore zone of the
Danube Delta Front

ANA-MARIA ROȘU, DANIELA NICUȚĂ, DUMITRA RĂDUCANU,
ROXANA VOICU

Influence of environmental factors concerning the quality of honeybee

18:00 – 18:30 - Closing ceremony
