

ECOLOGY & SAFETY 2018

27th INTERNATIONAL CONFERENCE

Conference Program

23–27 JUNE 2018, ELENITE HOLIDAY VILLAGE, BULGARIA

ORGANIZED BY

- Bulgarian Academy of Sciences
- Union of Scientists in Bulgaria
- Science & Education Foundation, Bulgaria
- Al-Farabi Kazakh National University, Kazakhstan
- Institute of Field and Vegetable Crops, Serbia
- Kavala Institute of Technology, Greece

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REGISTRATION

05:00 – 06:00 PM, 23 June, Conference Hall, Hotel “Royal Castle”

09:00 – 10:00 AM, 24 June, Conference Hall, Hotel “Royal Castle”

OPENING

10:00 AM, 24 June, Conference Hall, Hotel “Royal Castle”

ATTENTION

Participants in the conference have 10 minutes to present their papers and 5 minutes for questions and answers. There may be changes in the order of presentations, for which participants will be duly notified about.

Participants have to arrange their posters on the poster boards before the poster session begins.

TALK SESSION #1

10:00 – 11:00 AM, 24 June, Conference Hall, Hotel “Royal Castle”

1. **TORNADO CASUALTIES IN THE UNITED STATES: A MODEL INVOLVING INTERACTION BETWEEN POPULATION DENSITY AND ENERGY DISSIPATION**

James Elsner

Florida State University, United States

2. **CITIES AND CLIMATE CHANGE: BETWEEN RHETORIC AND ACTION**

Avi Gottlieb

Tel Aviv University, Israel

3. **STUDY OF CONTINUAL ABSORPTION OF IR RADIATION BY H₂O MOLECULES AND CLUSTERS FOR CLIMATIC MODELS**

Yury Ponomarev

Institute of Atmospheric Optics, Siberian Branch, Russian Academy of Sciences, Russia

POSTER SESSION #1

11:00 AM – 12:00 PM, 24 June, Conference Hall, Hotel “Royal Castle”

4. **ENVIRONMENTAL RISK ASSESSMENT BY HABITAT/SPECIES QUALITY AND OXIDATIVE STRESS LEVEL FOR MACROPHYTES AND AQUATIC PLANTS**
Elmira Boikova
Institute of Biology, University of Latvia, Latvia
5. **ASSESSMENT OF SURFACE CONTAMINATION AT DAIRY PLANTS**
Agata Stobnicka-Kupiec
Central Institute for Labour Protection, Poland
6. **IMPACT OF AIR CONDITIONING SYSTEM DISINFECTION ON MICROBIAL CONTAMINATION OF PASSENGER CARS**
Małgorzata Gołofit-Szymczak
Central Institute for Labour Protection, Poland
7. **APPLICATION OF MOLECULAR AND BIOCHEMICAL METHODS FOR IDENTIFICATION OF MICROBIAL AGENTS IN WOOD DUST**
Marcin Cyprowski
Central Institute for Labour Protection, Poland
8. **NASAL LAVAGE AS ANALYTICAL TOOL IN ASSESSMENT OF EXPOSURE TO WOOD DUST AND BIOAEROSOLS AT SAWMILLS**
Rafal Gorny
Central Institute for Labour Protection, Poland
9. **EFFECTS OF HABITAT LOSS AND FRAGMENTATION ON AMPHIBIAN ABUNDANCE IN SŁUPSK CITY (NW POLAND)**
Tomasz Hetmanski
Department of Zoology, Pomeranian University in Słupsk, Poland
10. **CHEMICAL WEAPONS DUMPED IN THE POLISH SEA AREAS – TECHNICAL POSSIBILITIES OF ITS REMEDIATION AND LEGAL RESTRICTIONS**
Jacek Fabisiak
Polish Naval Academy, Poland
11. **PROCEEDINGS WITH CHEMICAL WARFARE AGENTS DUMPED IN THE BALTIC SEA IN CASE OF CONTACT – LEGAL ASPECTS ON THE EXAMPLE OF POLAND**
Edyta Łońska
Polish Naval Academy, Poland
12. **THE DIFFERENCES IN AMOUNTS OF METHANE EMISSIONS FROM ENTERIC FERMENTATION FROM SLOVAK EWE FARMING BETWEEN 2015 AND 2016**
Zuzana Palkovičová
National Agricultural and Food Centre, Nitra, Slovakia
13. **EVALUATION OF FLYING ACTIVITY OF CODLING MOTH (CYDIA POMONELLA), ORIENTAL FRUIT MOTH (CYDIA MOLESTA) AND PLUM FRUIT MOTH (GRAPHOLITHA FUNEBRANA) IN FRUIT ORCHARD WITH DRIP IRRIGATION IN 2017 IN PLOVDIV**
Jan Mezey
Slovak University of Agriculture in Nitra, Slovakia
14. **ENVIRONMENTAL CHANGE INFLUENCE ON SAP FLOW OF THE APPLE FLOW**
Viliam Bárek
Slovak University of Agriculture in Nitra, Slovakia

15. **USE OF LASER ANALYSIS IN HYDROPEDOLOGY**
Dušan Igaz
Slovak University of Agriculture in Nitra, Slovakia
16. **SELECTED SPECIFIC FOODS AND AGRICULTURAL PRODUCTS WITH PROTECTED DESIGNATION IN REGIONS OF THE SLOVAK REPUBLIC AS A MEMBER STATE OF THE EUROPEAN UNION**
Eva Michaeli
University of Prešov, Slovakia
17. **FUNCTIONAL DIVERSITY OF MICROORGANISMS IN THE CONDITIONS WITH THE ECOLOGICAL SYSTEM OF FARMING ON SOIL**
Danica Fazekašová
University of Prešov, Slovakia
18. **IMPROVING ENERGY EFFICIENCY AS PART OF ADAPTATION TO CLIMATE CHANGE IN TERMS OF SLOVAK MUNICIPALITIES**
Danica Fazekašová
University of Prešov, Slovakia
19. **REMOVAL OF HUMIC ACID USING ZEOLITE ZSM5**
Marjana Simonc
University of Maribor, Slovenia
20. **AMMONIUM TITANYL SULPHATE SALT AS A PROMISING PRECURSOR FOR THE SYNTHESIS OF TITANOSILICATE ION-EXCHANGER WITH TAILORED SORPTION PROPERTIES**
Lidia Gerasimova
Institute of Chemistry, Komi Science Centre, Russian Academy of Sciences, Russia
21. **USE OF MODERN METHODS TO ANALYZE THE NEGATIVE EFFECTS OF MOTORIZATION OF URBAN AREAS**
Irina Makarova
Kazan Federal University, Russia
22. **EFFECT OF THE NATURE OF THE PRECURSOR ON THE PERFORMANCE OF Cu-Mn CATALYSTS FOR CO AND VOCs OXIDATION**
Elitsa Kolentsova
Agricultural University - Plovdiv, Bulgaria
23. **POTENTIAL OF SILYBUM MARIANUM FOR PHYTOREMEDIATION OF SOILS CONTAMINATED WITH HEAVY METALS**
Violina Angelova
Agricultural University - Plovdiv, Bulgaria
24. **THE EFFECT OF ORGANIC MELIORANTS ON UPTAKE OF HEAVY METALS AND QUALITY OF ORIENTAL TOBACCO KRUMOVGRAD 90**
Violina Angelova
Agricultural University - Plovdiv, Bulgaria
25. **ECOTOXICOLOGICAL RESEARCH OF SPIROHYDANTOINS AND THEIR DERIVATIVES TOWARDS VAUCHERIA LITOREA**
Marin Marinov
Agricultural University - Plovdiv, Bulgaria

COFFEE BREAK

12:00 – 12:30 PM, 24 June, Main Restaurant, Hotel “Royal Castle”

TALK SESSION #2

02:00 – 05:00 PM, 24 June, Conference Hall, Hotel “Royal Castle”

26. **ECOLOGICAL ASPECTS OF ENERGY SECURITY IN BELARUS**

Alexander Mikhalevich
Institute of Power Engineering, National Academy of Sciences, Belarus

27. **NEW SAVE CONFINEMENT AS AN ECOLOGICAL SAFETY OBJECT FOR THE DESTROYED REACTOR OF THE CHERNOBYL NPP**

Pavlo Krukovskyi
Institute of Engineering Thermophysics, National Academy of Sciences, Ukraine

28. **SPATIOTEMPORAL COUPLING CHARACTERISTICS, EFFECTS AND THEIR REGULATION OF WATER-LAND RESOURCES IN A DESERT OASIS**

Wenzhi Zhao
Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China

29. **EVALUATION OF THE POTENTIAL HAZARD OF MANUFACTURED METAL-BASED NANOMATERIALS TO HEALTH OF AQUATIC ECOSYSTEMS: STATE OF THE ART**

Irina Blinova
National Institute of Chemical Physics and Biophysics, Estonia

30. **APPLICATION OF BIOLUMINESCENT ENZYMATIC TESTS IN ECOTOXICOLOGY**

Elena Esimbekova
Institute of Biophysics, Siberian Branch, Russian Academy of Sciences, Russia

31. **MODELING OF CHEMICAL SPECIES AND PRECIPITATION PROCESSES IN WATERS OF PROTECTED AREA PODA, BURGAS, BULGARIA**

Diana Rabadjieva
Institute of General and Inorganic Chemistry, Bulgarian Academy of Sciences, Bulgaria

32. **ESTIMATION OF THE POTENTIAL RUNOFF QUALITY IMPROVEMENT AS A RESULT OF APPLIED GREEN INFRASTRUCTURE MEASURES IN A HUNGARIAN TOWN**

Gabriella Hancz
University of Debrecen, Hungary

33. **THE CONCEPT OF BIO-CORROSION CONTROL THROUGH PULSE TECHNOLOGY**

D. A. Koleva
Delft University of Technology, Faculty CiTG, Materials and Environment, Netherlands

34. **AN APPROACH TO THE ESTIMATION OF THE POST-FIRE STATE OF STEEL REINFORCED CONCRETE STRUCTURES**

Valeriy Naidenov
Institute on Mechanics, Bulgarian Academy of Sciences, Bulgaria

35. **KINETIC MODELING STUDY OF THE COMBUSTION OF DIMETHYL ETHER (DME) AS A FUTURE BIOFUEL**

Guemini Miloud
Oum El Bouaghi University, Algeria

TALK SESSION #3

10:00 – 11:00 AM, 25 June, Conference Hall, Hotel “Royal Castle”

36. **BIOREG H2020: THE BEST PRACTICES IN WOOD WASTE MANAGEMENT**

Paul Antoine
Biomasse Normandie, France

37. **BIOREG H2020: THE FIRST COLLABORATIVE PLATFORM INTENDED TO INCREASE THE VALORISATION OF WOOD WASTE**

Dominique Boulday
CEDEN, France

38. **WOOD WASTE BIOMASS POTENTIAL IN THE EU**

Magdalena Borzecka
Institute of Soil Science and Plant Cultivation State Research Institute,
Poland

39. **MARGINAL LAND DEFINITION AND ITS POSSIBILITIES FOR BIOMASS PRODUCTION**

Krzysztof Borzecki
Institute of Soil Science and Plant Cultivation State Research Institute,
Poland

POSTER SESSION #2

11:00 AM – 12:00 PM, 25 June, Conference Hall, Hotel “Royal Castle”

40. **LACTIC ACID PRODUCTION FROM POLYSACCHARIDES-CONTAINING RAW MATERIALS**

Flora Tsvetanova
Institute of Chemical Engineering, Bulgarian Academy of Sciences,
Bulgaria

41. **IMPACT OF NITRATE IONS CONCENTRATION ON THE DENITRIFICATION PROCESS**

Tsvetomila Parvanova-Mancheva
Institute of Chemical Engineering, Bulgarian Academy of Sciences,
Bulgaria

42. **1,2-DIBROMOETHANE BIODEGRADATION CAPACITY OF BRADYRHIZOBIUM JAPONICUM STRAIN 273**

Evgenia Vasileva
Institute of Chemical Engineering, Bulgarian Academy of Sciences,
Bulgaria

43. **SULFIDE-NITRATE FUEL CELL FOR ENVIRONMENTAL PURPOSES: A NOVEL CARBON PADDLING ELECTRODES**

Martin Martinov
Institute of Chemical Engineering, Bulgarian Academy of Sciences,
Bulgaria

44. **ASSESSMENT OF THE AIR POLLUTION WITH PARTICULATE MATTERS IN URBAN AND OUTDOOR REGIONS OF SOFIA**

Lyudmila Gosteva
University of Forestry, Bulgaria

45. **PHENOLOGICAL OBSERVATIONS OF FAGUS SYLVATICA L. IN THE BALKAN RANGE**

Ralitsa Kuzmanova
University of Forestry, Bulgaria

46. **GEOLOGICAL, CLIMATE AND ANTHROPOGENIC PREREQUISITE FOR PROCEEDING OF EROSION PROCESSES ON THE TERRITORY OF MADZHAROVO CALDERA**

Dobrinka Zakova-Aleksandrova
University of Forestry, Bulgaria

47. **ECO-EFFICIENCY OF PLASMA-GASIFICATION METHODS FOR SOLID WASTE TREATMENT**
Savina Brankova
University of Forestry, Sofia, Bulgaria
48. **RESEARCH ON THE LONG TERM FLUCTUATIONS OF THE AIR TEMPERATURES IN THE AREA OF BOTEV PEAK**
Svetoslav Mitkov
University of Forestry, Sofia, Bulgaria
49. **VARIATION IN WATER UTILIZATION OF TYPICAL DESERT SHRUBS IN A DESERT-OASIS ECOTONE**
Hai Zhou
Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China
50. **ADAPTIVE STRATEGIES OF CLONAL SHRUB TO SAND DUNE ENVIRONMENT IN DESERT-OASIS TRANSITIONAL ZONE**
Weicheng Luo
Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences, China
51. **EFFECT OF NANOPARTICLE SIZE AND SHAPE ON PLANT GROWTH**
Jakub Siegel
University of Chemistry and Technology, Prague, Czech Republic
52. **BENEFITS OF N-BUTANOL, AS A BIOFUEL, IN REDUCING THE AMOUNTS OF SOOT PRECURSORS ISSUED FROM THE COMBUSTION OF TOLUENE FLAMES**
Yacine Rezgui
University of Oum El Bouaghi, Algeria
53. **NUMBER OF BLIZZARD DAYS IN GEORGIA**
Mikheil Pipia
Institute of Hydrometeorology, Georgian Technical University, Georgia
54. **ACIDOGENIC FERMENTATION OF CORN STEM BIOMASS FOR SUSTAINABLE PRODUCTION OF ORGANIC ACIDS**
Panagiotis Kandylis
Department of Chemistry, University of Patras, Greece
55. **FISHERY LIGHTS RESULT IN ELEVATED PREDATION OF THE ENDANGERED FISH ECONOMICHTHYS TRICHONIS BY ATHERINA BOYERI IN LAKE TRICHONIS (GREECE)**
George Kehayias
Department of Environmental & Natural Resources Management, University of Patras, Greece
56. **IMPACT AND IMPORTANCE OF POTATO CYST NEMATODES GLOBODERA PALLIDA (STONE) BEHRENS, GLOBODERA ROSTOCHIENSIS (WOLLENWEBER) BEHRENS**
Radmila Ilieska
Faculty of Natural Science & Mathematics, Ss. Cyril & Methodius University, Skopje, Macedonia
57. **ALLEVIATING EFFECTS OF ROSMARINIC ACID ON RADICAL SCAVENGING AND WATER MANAGEMENT IN MAIZE (ZEA MAYS L.) TREATED WITH CHROMIUM STRESS**
Mustafa Kucukoduk
Selcuk University, Turkey
58. **THE VISUAL PREFERENCE FOR RIVERSIDE VEGETATION: A CASE STUDY IN CENTRAL TAIWAN**
Jinn-Chyi Chen
Huafan University, Taiwan

59. **RECENT UPDATE OF HPLC-UV AND LC-MS METHODS FOR DOMOIC ACID DETECTION: A COMPARISON REVIEW**

Stanislava Georgieva

Medical University - Varna, Bulgaria

60. **MANAGING SOCIAL AND ENVIRONMENTAL CONCERNS IN THE XXI CENTURY FASHION INDUSTRY**

Adriana Dima

The Bucharest University of Economic Studies, Romania

TALK SESSION #4

02:00 – 05:00 PM, 25 June, Conference Hall, Hotel “Royal Castle”

61. **SAFETY AND GENDER EQUALITY**

Ryoichi Horiguchi

Kindai University, Faculty of International Studies, Japan

62. **SOCIAL IMPACT ASSESSMENTS AND ENVIRONMENTAL IMPACT STUDIES, STUDIES THAT MUST BE COMPULSORY COMPLEMENTARY BUT ARE RARELY LINKED**

Armando Garcia-Chiang

The Metropolitan Autonomous University, Mexico

63. **JOURNAL OF MOUNTAIN SCIENCE: AN IMPORTANT PLATFORM FOR SHOWCASING ECOLOGY AND GEO-HAZARDS STUDIES**

Dunlian Qiu

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, China

64. **REMOVAL OF CHROMIUM LOAD FROM LEATHER INDUSTRY EFFLUENTS BY USING VEGETABLE TANNED LEATHER SHAVINGS AS ADSORBENT**

Mehmet Mete Mutlu

Ege University, Turkey

65. **THE EFFECT OF IRON AND MANGANESE OXIDE ON MEMBRANE TREATMENT OF GROUND AND SURFACE WATER**

Suna Ozden Celik

Namik Kemal University, Corlu Engineering Faculty, Turkey

66. **SOME ENDEMIC PLANTS AND ECOLOGICAL PROPERTIES SPREADING IN KARAGÖL AND ENVIRONMENT, BOLKAR MOUNTAINS (NIGDE-TURKEY)**

Yavuz Bağcı

Selçuk University, Turkey

67. **ECOLOGICAL APPROACH FOR CONTROL OF ORIENTAL FRUIT MOTH, CYDIA MOLESTA BUSCK AND PEACH TWIG BORER ANARSIA LINEATELLA ZELL. USING CIDETRAK® OFM/PTB PHEROMONE DISPENSERS**

Hristina Kutinkova

Fruit Growing Institute, Bulgaria

68. **FIRST-SEASON GRAPEVINE RESPONSES TO WOOD BOTTOM ASH AMENDMENT**

Carlos Correia

The University of Trás-os-Montes and Alto Douro, Portugal

69. PREVIEW OF A CONTROLLED BIODEGRADATION OF PRE-TREATED WASTES FROM AGRICULTURE AND FORESTRY

Ilirjan Malollari

Faculty of Natural Sciences, University of Tirana, Albania

70. THE IMPACT OF HYDRAULIC FRACTURING ON THE ENVIRONMENT AND HUMAN HEALTH

Alina Agafitei

"Gheorghe Asachi" Technical University of Iași, Romania

71. NEAREST PROBLEMS OF OUR FUTURE

Vladimir Burdyuzha

Astro-Space Center, Lebedev Physical Institute, Russian Academy of Sciences, Russia

72. INFLUENCE OF CLIMATE CHANGE ON GROUNDWATER LEVEL AND STATE OF PINE PLANTATIONS ON SANDS OF CASPIAN LOWLAND

Marina Sizemskaya

Institute of Forest Science, Russian Academy of Sciences, Russia

AWARDING CERTIFICATES

25 June, Conference Hall, Hotel "Royal Castle"

SOCIAL PROGRAM

26 June

CLOSING

27 June

Thank you for taking part in the international conference Ecology & Safety.

We hope that the time spent in Bulgaria has been beneficial to both you and your colleagues.

It will be our pleasure to welcome you again next year.

Current information about all events organized by us can be found at www.sciencebg.net