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**The International Multidisciplinary Scientific GeoConferences SGEM (Survey, Geology, Ecology and Management) are focused on GLOBAL WARMING, CLIMATE CHANGE, CO<sub>2</sub> REDUCTION, BIODIVERSITY, AND GREEN TECHNOLOGIES FOR A SUSTAINABLE FUTURE.**

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## FOREWORD

**The International Multidisciplinary Scientific GeoConference SGEM is focused on GLOBAL WARMING, CLIMATE CHANGE, CO<sub>2</sub> REDUCTION, BIODIVERSITY, AND GREEN TECHNOLOGIES FOR A SUSTAINABLE FUTURE.**

**The world is wild and hard to predict, and no matter how good we are as scientists we can't arrange it according to the precise boundaries of our academic disciplines.** Many examples could be given, but one of them is an urgent problem in one of the most discussed topics of the conference: **Global Warming and Decarbonization**. To manage them successfully, we need a deep understanding of the climate process. Furthermore, we also need to work in areas close to the problem, such as exploration and extraction of minerals, water resources, forest, marine and ocean ecosystems, energy, waste management, environmental and air pollution, and energy sources, to know more and develop green technologies etc.

*The planet must be protected from degradation through sustainable consumption and production, sustainable management of its natural resources and taking urgent action against climate change to meet the needs of present and future generations. But each problem here is megatrend-sized and multifaceted, and no single discipline will solve any of them alone. This is why we need collaboration and partnership to bridge the gaps between significant fields in the magical world of geosciences.*

Only by bringing together scientists, researchers and specialists from different sections in geosciences to solve real-life problems and achieve the goals of AGENDA 2030, will we be able to get a much more complete picture of the world around us and to solve the problems and complex challenges that time puts before us. This is the way to find expert solutions not only for **GLOBAL WARMING, but also for CLIMATE CHANGE, CO<sub>2</sub> REDUCTION, BIODIVERSITY, AND GREEN TECHNOLOGIES FOR A SUSTAINABLE FUTURE for our planet.**

This forum brings together scientists, researchers and specialists from two or more scientific disciplines, putting them side by side to work together on issues of concern to society. **By developing their interdisciplinary objectives, they firmly build the foundation of a common conceptual framework that underpins the sustainable development goals of AGENDA 2030.**

*Thus we confirm the multidisciplinary approach of modern geosciences, which is the essence of our GeoConferences.*

### **Acknowledgements**

The Conference Committee and the Editorial Board are open to comments and recommendations for developing future conference proceedings and the organization of the next SGEM GeoConferences. We would like to thank all the authors, reviewers, members of the Programme and Scientific Committee and the Editorial Board as well as supporting staff for their contribution to organizing the 22<sup>nd</sup> edition of the conference.

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## CONFERENCE PROCEEDINGS CONTENTS

### SECTION MICRO AND NANOTECHNOLOGIES

---

- 1. FEATURES OF ZIRCONIUM ION ADSORPTION BY SODIUM MODIFIED TITANIUM DIOXIDE**, Savka Kh., Mironyuk I., Mykytyn I., Vasylyeva H., Vasylyev A.....3
- 2. ON-BOARD THREE-AXIS VIDEO STABILIZATION SYSTEM USING DIRECT DRIVE TECHNOLOGY**, Eng. Marius Dima, Eng. Mihai Racheru, Assoc. Prof. Eng. Ciprian Larco PhD, Prof. Eng. Lucian Grigorie PhD, Eng. Radu Pahonie PhD C. ....9
- 3. POLYAMIDE WASTE/ POLYSTYRENE/ CARBON FIBRES NANOCOMPOSITES: OBTAINING AND CHARACTERIZATION**, Dr. Laurentia Alexandrescu, Drd. Mihai Georgescu, Dr. Maria Sonmez, Prof. Dr. Anton Ficai ..... 15
- 4. SIMULATION OF IMPACT ON FIBERGLASS LAMINATED PACKAGES**, George Ghiocel Ojoc, Lorena Deleanu, Larisa Chiper Titire, Cristian Munteniță, Cătălin Pîrvu .....23
- 5. THE USE OF NATURAL ZEOLITES OF TRANSCARPATHIA TO SOLVE ENVIRONMENTAL PROBLEMS**, Sych O., Vuchkan S., Vasylyeva H., Karbovanets M., Yevych M.....31
- 6. TRIBOLOGICAL CHARACTERISTICS OF RAPESEED OIL ADDITIVATED WITH NANO HEXAGONAL BORON NITRIDE AND GRAPHENE**, Dionis Guglea, Lorena Deleanu, Constantin Georgescu, Cristian Munteniță.....37

### SECTION ADVANCES IN BIOTECHNOLOGY

---

- 7. AEROBIC BACTERIA FROM THE OILWELLS OF THE SUPERGIANT ROMASHKINSKOYE OILFIELD**, Dr. Liliya Biktasheva, Dr. Natalia Danilova, Prof. Dr. Polina Galitskaya, Prof. Dr. Svetlana Selivanovskaya, Maria Shipaeva.....47
- 8. ANTIBACTERIAL POTENTIAL AND CYTOTOXICITY EFFECTS OF SOME PLANTS' CRUDE JUICES**, Prof. Dr. Radwan S. Farag, Dr. Layla S. Tawfeek .....55

<b>9. ANTIOXIDANT, NUTRITIONAL AND SENSORY CHARACTERISTICS OF TWO INNOVATIVE TYPES OF GLUTEN-FREE BREAD,</b> Dr. Delia-Gabriela Dumbravă, Costescu Cristian-Alin, Assoc. Prof. Dr. Diana-Nicoleta Raba, Dr. Viorica-Mirela Popa, Dr. Camelia Moldovan .....	65
<b>10. APPRECIATION ON BIODIVERSITY IN SEVERAL PERMANENT GRASSLANDS IN TIMIȘ COUNTY, ROMANIA. A CASE STUDY,</b> Assoc. Prof. Dr. Carmen Claudia Durău, Dr. Mihuț Casiana Doina, Dr. Anisoara Claudia Duma Copcea, Dr. Adalbert Okros, Assoc. Prof. Dr. Vlad Dragoslav Mircov .....	73
<b>11. ASSESSMENT OF THE DIVERSITY OF RHIZOSPHERIC CULTIVATED BACTERIA IN WHEAT PLANTS GROWN ON DIFFERENT SOIL TYPES,</b> PhD C. Darina Glazunova, Assoc. Prof. Dr. Polina Kuryntseva, Dr. Polina Galitskaya, Prof. Dr. Svetlana Selivanovskaya .....	81
<b>12. BIOCHAR ABSORBS HEAVY METALS FROM THE COMPOSTS AT THE BEGINNING OF THE COMPOSTING PROCESS,</b> Kamalya Karamova, Gulnaz Galieva, Prof. Dr. Polina Galitskaya .....	89
<b>13. CHANGES DETECTION IN THE SPATIAL AND TEMPORAL DISTRIBUTION OF VEGETATION, BASED ON NDVI VALUES,</b> Assist. Dr. Loredana Copăcean, Prof. Dr. Cosmin Popescu, Assoc. Prof. Dr. Adina Horablaga, Assist. Dr. Mihai Simon, Prof. Dr. Luminița Cojocariu.....	97
<b>14. CHARACTERIZATION OF BIOSURFACTANTS PRODUCED BY <i>PSEUDOMONAS AEROGINOSA</i> NCIM 5514,</b> Alexander Gordeev, Alina Kamalova, Prof. Dr. Svetlana Selivanovskaya, Aisylu Sharifullina, Polina Kuryntseva.....	105
<b>15. CHARACTERIZATION OF SOME ROMANIAN MEDICINAL PLANTS BASED ON TOTAL POLYPHENOLS CONTENT,</b> Dr. Georgeta Sofia Popescu, dr. Antoanela Cozma, dr. Lia Sanda Rotariu, assoc. Prof. Dr. Ariana Bianca Velciov, assoc. Prof. Dr. Eng. Florina Radu.....	113
<b>16. CHARACTERISATION OF THE ANTIMICROBIAL BEHAVIOUR OF <i>ESCHERICHIA COLI</i> AND <i>SALMONELLA SPP.</i> STRAINS ISOLATED FROM PIGS IN THE WESTERN PART OF ROMANIA,</b> Assoc. Prof. Dr. Calin Ioan Hulea, Assoc. Prof. Dr. Diana Obistoiu, Assoc. Prof. Dr. Anca Hulea, Prof. Dr. Viorel Herman .....	121
<b>17. COMPARISON OF TWO METHODS OF PURIFICATION OF LIPOPEPTIDES PRODUCED BY <i>BACILLUS SUBTILIS</i> HZMJW 1-10 ISOLATED FROM OIL-CONTAMINATED SOIL,</b> Alina Kamalova, Alexander Gordeev, Alexey Chalenko, Lilya Biktasheva, Assoc. Prof. Dr. Polina Kuryntseva .....	129

**18. DEVELOPING OF INNOVATIVE VALUE-ADDED CHOCOLATE FORMULAS BY ROSEHIP AND CAROB POWDER INCORPORATION**, Dr. Diana Moigradean, Prof. Dr. Mariana-Atena Poiana, Phd. Eng. Roxana-Diadora Gruiescu, Dr. Liana Maria Alda, Assoc. Prof. Dr. Despina Maria Bordean .....135

**19. DEVELOPMENT AND MINERAL CHARACTERIZATION OF MILK CHOCOLATE FORTIFIED WITH CHICKEN EGG SHELL POWDER**, PhD Antoanela Cozma, PhD Sofia Popescu, PhD Maria Rada, PhD Casiana Mihut, Assoc. Prof. Dr. Ariana Velcirov..... 143

**20. ELEMENTAL FINGERPRINTS OF LIME FLOWER, CHAMOMILE AND LADY’S BEDSTRAW BASED ON PLANT MATERIAL XRF ANALYSIS**, Assoc. Prof. Dr. Eng. Despina-Maria Bordean, Dr. Eng. Narcis Gheorghe Baghina, Prof. Dr. Eng. Luminita Pirvulescu, Dr. Eng. Diana Moigradean, Prof. Dr. Eng. Mariana-Atena Poiana ..... 151

**21. EVALUATION OF THE ENVIRONMENTAL AWARENESS OF HIGH SCHOOL TEACHERS AS A KEY TO PROVIDING THE NEW GENERATIONS WITH A SAFE AND SUSTAINABLE FUTURE**, Prof. Dr. Asuncion Maria Agullo Torres, Prof. Dr. Francisco Jose Del Campo Gomis, Pablo Mauricio Garcia Munio ..... 159

**22. EVALUATION OF THE INFLUENCE OF THE INDUSTRIAL ENTERPRISE ON THE QUALITY OF GEOFILTRATION PROCESS IN THE SOIL LOWER**, DSc., University Prof. Igor Korobiichuk, Ph.D., Senior Lecturer. Julia Zaporozhets, Ph.D., Assoc. Prof. Sergii Kostyk, Ph.D., Senior Lecturer. Svitlana Merdukh, Ph.D., Assoc. Prof. Vladyslav Shybetskyi, Ph.D., Assoc. Prof. Sergii Plashykhin ..... 167

**23. EVALUATION OF TOTAL POLYPHENOLS CONTENT AND ANTIOXIDANT ACTIVITY OF THE CHAMOMILE BEVERAGE WITH DIFFERENT SWEETENERS ADDING**, Dr. Camelia Moldovan, Assoc. Prof. Dr. Corina Dana Misca, Dr. Viorica-Mirela Popa, Assoc. Prof. Dr. Diana-Nicoleta Raba, Dr. Delia Gabriela Dumbrava..... 175

**24. IDENTIFICATION OF THE MYCOTOXIGENIC FUNGI GROWING ON MARKETED RAW ALMONDS – CASE STUDY**, PhD Otilia Cotuna, PhD Mirela Paraschivu, Assoc. Prof. PhD Veronica Sărățeanu, Assoc. Prof. PhD Marinela Nicolae Horablaga, Assistant Researcher eng. Klaudia Kincel ..... 183

**25. IN VITRO EVALUATION OF *BOSWELLIA* SPP. ANTI-BIOFILM ACTIVITY**, Assoc. Prof. Dr. Diana Obistioiu, Assoc. Prof. Dr. Ileana Cocan, Assoc. Prof. Dr. Calin Hulea, Assoc. Prof. Dr. Monica Negrea, Prof. DSc. Ersilia Alexa ..... 191

- 26. INFLUENCE OF DIFFERENT LEVELS OF INVASION WITH AMORPHA FRUTICOSA OF THE GRASSLAND VEGETATION ON SOME SOIL FEATURES**, Assoc. Prof. PhD Veronica Sărățeanu, PhD Otilia Cotuna, PhD Mirela Paraschivu, Professor PhD Luminița Cojocariu, Biologist PhD Codruța Teodora Sucișu..... 199
- 27. INFLUENCE OF IRON-OXIDIZING BACTERIA ON THE REDOX POTENTIAL OF THE LEACHING SOLUTION IN SITU RECOVERY (ISR) OF URANIUM**, Assoc. Prof. Gaukhar Turysbekova, Prof. Yerkin Bektay, Akmurat Altynbek, Muratbek Sidikanov, Bauyrzhan Shiderin.....207
- 28. INFLUENCE OF PESTICIDE USING ON THE QUALITY OF SUSTAINABLE AGRICULTURE**, PhD. Lucica Dobre, Dr. Dorina Mocuța .....215
- 29. INFLUENCE OF THE ADDITION OF DEHYDRATED LINGONBERRIES IN SPELT FLOUR ON ITS BAKERY PROPERTIES, PHYSICO-CHEMICAL CHARACTERISTICS, ANTIOXIDANT AND ANTIMICROBIAL PROPERTIES**, Assoc. Prof. Dr. Diana-Nicoleta Raba, Professor Dr. Mariana-Atena Poiană, Dr. Delia-Gabriela Dumbravă, Dr. Mirela- Viorica Popa, Assoc. Prof. Dr. Corina-Dana Mișcă.....225
- 30. MICROBIOLOGICAL PREPARATIONS IN AGRICULTURE – ALTERNATIVE AND ECONOMIC BENEFIT**, Prof., Dr. habil. oec., Baiba Rivza, PhD C., Mg. oec., Vivita Vīksniņa.....233
- 31. MODELLING AND SIMULATION OF CLOUD-BASED DIGITAL TWINS IN SMART FARMING**, Assist. Prof. Dr. Kristina Dineva, Assoc. Prof. Dr. Tatiana Atanasova .....241
- 32. PATHOGENIC POLLUTION OF CROPS CAUSED BY CHICKEN MANURE BASED FERTILIZERS**, Gulnaz Galieva, Kamalya Karamova, Prof. Dr. Polina Galitskaya, Prof. Dr. Svetlana Selivanovskaya .....249
- 33. PECULIARITIES OF GROWTH, DEVELOPMENT AND MICROSTRUCTURAL CHARACTERISTICS OF CUMIN, GROWN BY GREEN TECHNOLOGIES**, Dr. Metreveli M., Prof. Bakuridze A., Dr. Mchedlidze K., Dr. Kodanovi L., Dr. Meskhidze A., Prof. Berashvili D.....259
- 34. PHYSIOLOGICAL FEATURES AND QUALITATIVE INDICATORS OF ORIGANUM VULGARE**, Prof. Dr. Tamar Kacharava, Dr. Tinatin Epatashvili, Dr. Liana Koiava, Ph.D. C. Mzia Lobjanidze.....269
- 35. PRELIMINARY RESEARCH ON THE NUTRITIONAL PARAMETERS OF CHOCOLATE FORTIFIED WITH NETTLE LEAF POWDER**, Assoc. Prof. Dr. Ariana-Bianca Velciov, Lect. Dr. Georgeta-Sofia Popescu, PhD Std. Iasmina-Madalina Anghel, Prof. Dr. Nicoleta-Gabriela Hădărugă, Prof. Dr. Adrian Riviș ..... 277

<b>36. SENSORY AND PHYSICO-CHEMICAL EVALUATION OF GLUTEN-FREE CRUFFINS OBTAINED FROM ALMOND FLOUR AND RICE FLOUR,</b> Assoc. Prof. Dr. Daniela Stoin, Prof. Dr. Mariana-Atena Poiana, Prof. Dr. Calin Jianu, Dr. Ileana Cocan, Dr. Monica Negrea .....	285
<b>37. SITUATION OF PROTECTED NATURAL AREAS IN THE ALPINE BIOGEOGRAPHICAL REGION (ROMANIA),</b> Dr. Cristian Bostan, Assistant Dr. Loredana Copacean, Prof. Dr. Luminita Cojocariu, Assoc. Dr. Marinel Nicolae Horablaga, Dr. Alina Agapie.....	293
<b>38. SPECTROPHOTOMETRIC DETERMINATION OF THE CONTENT OF CHLOROPHYLLS, CAROTENOIDS AND XANTHOPHYLL IN THE FRESH AND DRY LEAVES OF SOME SEASONING AND AROMATIC PLANTS FROM THE WESTERN AREA OF ROMANIA,</b> Dr. Viorica- Mirela Popa, Dr. Delia-Gabriela Dumbravă, Assoc. Prof. Dr. Diana-Nicoleta Raba, Assoc. Prof. Dr. Florina Radu, Dr. Camelia Moldovan .....	301
<b>39. STUDYING THE BIOECOLOGICAL PECULIARITIES AND THE CONTENT OF BIOLOGICALLY ACTIVE COMPOUNDS OF IRIS PALLIDA LAM., INTRODUCED BY GREEN TECHNOLOGY,</b> Metreveli M. Bakuridze A., Kodanovi L., Jokhadze M., Meskhidze A., Bakuride L.....	309
<b>40. THE BIOCATALYTIC INFLUENCE OF ALFA-AMYLASE AND BETA-AMYLASE ENZYMES ON WHITE FLOUR USED IN BAKERY INDUSTRY,</b> Assoc. Prof. Dr. Ioan David .....	319
<b>41. THE BIODIVERSITY OF THE GRASSLANDS IN WESTERN ROMANIA FOR THEIR SUSTAINABLE,</b> Assoc. Prof. Dr. Ciprian Stroia, Madalina Corcan, Prof. Dr. Ionel Samfira, Assoc. Prof. Dr. Marius Stroia, Assoc. Prof. Dr. Lucretiu Dancea .....	327
<b>42. THE INFLUENCE OF THE ALTITUDE GRADIENT IN THE DISTRIBUTION OF GRASSLANDS, CENTRAL ELEMENTS IN THE SUSTAINABLE DEVELOPMENT OF RURAL AREAS. CASE STUDY,</b> Prof. Dr. Luminița Cojocariu, Drd. Monica Sfircoeci, Assoc. Prof. Dr. Veronica Sărățeanu, Dr. Cristian Bostan, Assist. Dr. Loredana Copăcean.....	335
<b>43. THE RESPONSE OF SOME WHEAT QUALITY INDICES TO FOLIAR FERTILIZATION,</b> Florin Crista, Florin Imbrea, Isidora Radulov, Stefan Batrina, Ioan Bănățean-Dunea.....	343
<b>44. UREA FERTILIZERS EFFICIENCY UPON QUALITY PARAMETERS OF WINTER CROPS,</b> Assoc. Prof. Dr. Alina Lato, Prof. Dr. Isidora Radulov, Assoc. Prof. Dr. Adina Berbecea, Assoc. Prof. Dr. Alina Neacsu, Assoc. Prof. Dr. Iaroslav Lato .....	349

- 45. VALORISATION OF GRAPE MARC BY-PRODUCTS IN BEVERAGE INDUSTRY: THE CASE OF FORTIFIED GRAPE JUICE**, Drd. Cristina Pădureanu, Dr. Alina Maier, Assoc. Prof. Dr. Cristina Maria Canja, Prof. Dr. Vasile Pădureanu, Dr. Chem. Oana-Crina Bujor.....357
- 46. VALORIZATION OF CHICKPEAS AS A PLANT-BASED PROTEIN IN OBTAINING PORK SAUSAGES**, Dr. Ileana Cocan, Dr. Monica Negrea, Prof. Dr. Ersilia Alexa, Dr. Diana Obistioiu, Assoc. Prof. Dr. Daniela Stoin.....365
- 47. VALORIZATION OF POME FRUITS WASTE INTO FUNCTIONAL CANNED PRODUCTS IN THE CONTEXT OF "ZERO WASTE" SYSTEM**, Monica Negrea, Ileana Cocan, Prof. PhD. Ersilia Alexa, Asst. Prof. Diana Obiștioiu, Prof. PhD. Călin Jianu .....373
- 48. VALORIZATION OF THE SECONDARY THICKENER WASTEWATER FROM THE CONVENTIONAL DEPURATION PLANTS AS A SUBSTRATE FOR MICROALGAE BIOMASS PRODUCTION**, Amani Belaiba, Mha Albqmi, Sebastián Sánchez, Gassan Hodaifa .....381

## **SECTION GREEN BUILDINGS TECHNOLOGIES AND MATERIALS**

---

- 49. APPLICATION OF AERIAL AND TERRESTRIAL THERMOGRAPHY FOR DETERMINING THE BUILDING ENVELOPE THERMAL PERFORMANCE**, Assoc. Prof. Dr. Ligia Moga, Assist. Prof. Dr. Teodora Șoimoșan, Assoc. Prof. Dr. Ioana Moldovan, Assoc. Prof. Dr. Mihai Rădulescu, Assoc. Prof. Dr. Adrian Rădulescu, PhD Candidate. Ionuț Iancu.....391
- 50. ASSESMENT OF WIND TURBINE BLADES RESISTANCE IN ABRASIVE WEAR**, PhD. C. Romeo Marin, Costel Humelnicu, Prof. Mihaela Buciumeanu, Assoc. Prof. Cristian Munteniță, Assoc. Prof. Sorin Ciortan.....399
- 51. EARLY AGE MECHANICAL PROPERTIES OF CEMENT BASED MORTAR WITH ZEOLITE AGGREGATES**, Dr. Ionut-Ovidiu Toma, Dr. Ioana Olteanu, Dr. George Țăranu, Dr. Oana-Mihaela Banu, Dr. Sergiu-Mihai Alexa-Stratulat ..... 405
- 52. EXPERIMENTAL STUDY FOR STRUCTURAL PERFORMANCE EVALUATION OF EARTH WALLS REALISED WITH INNOVATIVE TRADITIONAL TECHNOLOGIES**, PhD. Cornelia Baeră, PhD. Claudiu-Lucian Matei, PhD. Felicia Enache, Eng. Cora Stamate, Eng. Mariana Cioncu-Puenea.....413
- 53. GAINING KNOWLEDGE FROM BIG DATA: ENERGY PERFORMANCE CERTIFICATE AS A SOURCE OF INFORMATION TO DECARBONIZE THE BUILT ENVIRONMENT**, Assoc. Prof. Dr. Fulvio Re Cecconi, Dr. Luca Rampini ..... 421

<b>54. INFLUENCE OF ELEVATED TEMPERATURE ON THE EARLY AGE PROPERTIES OF CEMENT MORTAR WITH ZEOLITE POWDER, Dr. Ionut-Ovidiu Toma, Dr. Sergiu-Mihai Alexa-Stratulat, Assoc. Prof. Dr. Petru Mihai, Dr. Ana-Maria Toma, Dr. Vasile-Mircea Venghiac .....</b>	<b>429</b>
<b>55. METHODOLOGY FOR EVALUATING COMPONENTS IN THE PRODUCTION OF GREEN CONCRETE, PhD candidate Lilita Abele, Anna Muhina.....</b>	<b>437</b>
<b>56. NUMERICAL CALCULATIONS OF THE INSTALLATION THERMAL BRIDGE FOR THE OPTIMIZATION OF WINDOWS PLACEMENT, Dr. Staņislavs Gendelis.....</b>	<b>445</b>
<b>57. RESULTS OF AN EXPERIMENT ON THE CREATION OF AN ARTIFICIAL AEOLIAN FORM ALONG THE SEA COAST OF THE KINBURNSKA-POKROVSKA-DOVHIY COASTAL BARRIER, BLACK SEA, Assoc. Prof. Dr. Oleksiy Davydov, Assoc. Prof. Dr. Alexander Stoyan, Assoc. Prof. Dr. Alexander Murkalov, Head of scientific department Vasyli Chaus.....</b>	<b>453</b>
<b>58. RETROFITTING THERMALLY STRESSED GLAZED BUILDINGS BY USING VERTICAL GREENERY – A DESIGN STUDY BASED ON SELECTED CLIMBER SPECIES AND PLANT PHYSIOLOGICAL PARAMETERS, Thomas Wulsch, Anna Briefer, Prof. Dr. Rosemarie Stangl, Rudolf Bintinger .....</b>	<b>461</b>
<b>59. THE CHALLENGE OF NATURAL FIBRES FOR THE THERMAL AND ACOUSTIC INSULATION OF AIRCRAFT, Massimo Viscardi.....</b>	<b>469</b>

## **SECTION GREEN DESIGN AND SUSTAINABLE ARCHITECTURE**

---

<b>60. A MINIATURISED ONBOARD PLATFORM FOR OPTIC SENSORS STABILIZATION ON A SMALL UAV PLATFORM, Assoc. Prof. Eng. Ciprian Larco PhD, Prof. Eng. Lucian Grigorie, PhD, Eng. Razvan Mihai PhD, Eng. Andra Tofan-Negru PhD C., Eng. Radu Pahonie PhD C.....</b>	<b>479</b>
<b>61. ANALYSIS OF URBAN TERRITORIES FOR THE GREEN DEVELOPMENT OF LATVIA, Prof. Dr. Vivita Pukite, Mg.sc.ing. Jolanta Luksa .....</b>	<b>487</b>
<b>62. BIODIVERSITY, GEODIVERSITY AND CULTURAL DIVERSITY: THE NEXUS, Denis Vasiliev, Richard Hazlett, Rodney Stevens, Lennart Bornmalm.....</b>	<b>495</b>
<b>63. BUILDING ADAPTATION IN THE AGE OF CLIMATE CHANGE: HISTORICAL ASSET IN SANLIURFA TURKEY, Prof. Dr. Mūcahit Yıldırım.....</b>	<b>503</b>

<b>64. BUILDING INFORMATION TECHNOLOGY IN ECONOMIC SUSTAINABLE CONSTRUCTION PROJECT MANAGEMENT,</b> Dr. Tomas Mandicak, Dr. Marcela Spisakova, Prof. Dr. Peter Mesaros .....	509
<b>65. CAN ARCHITECTURE IDENTIFY A SECOND LIFE FOR DISMISSED QUARRIES? OPPORTUNITIES AND CHALLENGES FOR EXTRACTION SITES IN LESSINIA AND VALPOLICELLA, VERONA, ITALY,</b> Gerardo Semprebon .....	517
<b>66. COMPARISON OF DAYLIGHTING IN MULTI-STOREY BUILDING ACROSS EUROPE,</b> Assoc. Prof. Iveta Skotnicová, Ph.D., Eng. Vojtěch Kolarčík, Eng. Ondřej Fadrný .....	527
<b>67. CRISIS MANAGEMENT AND CARTOGRAPHY,</b> Prof. Dr. Robert Župan, Prof. Dr. Stanislav Frangeš, Assist. Prof. Ivka Kljajić, Marta Stanić .....	535
<b>68. DESIGNING OF ORCHARDS AREAS AND EVALUATION OF THEIR DEVELOPMENT POSSIBILITIES,</b> Prof. Dr. Vivita Pukite, Mg.sc.ing. Jolanta Luksa, Mg.sc.ing. Vita Celmina, Prof. Dr. Armands Celms .....	543
<b>69. GREEN INFRASTRUCTURE IN URBAN PLANNING IN THE CZECH REPUBLIC,</b> Vendula Moravcova, Dr. Jana Moravcova, Petra Kosova, Dr. Jiri Slama.....	551
<b>70. GREEN REAL ESTATE FOR SUSTAINABLE CITIES,</b> Assoc. Prof. dr. eng. Andreea Begov Ungur, Assoc. Prof. dr. eng. habil. Ildiko Tulbure .....	559
<b>71. IMPROVEMENT OF CYCLE TRACKS – A NECESSITY FOR A GREEN CITY,</b> Prof. Dr. Habil. Ioan Ienciu, Assoc. Prof. Dr. Luciana Oprea.....	567
<b>72. LANDSCAPE DESIGN AND NATURE-BASED SOLUTIONS: POTENTIAL FOR INTEGRATION,</b> Denis Vasiliev, Richard Hazlett, Rodney Stevens, Lennart Bornmalm .....	575
<b>73. THE PROBABILISTIC ESTIMATION OF THE CHLORIDE INGRESS IN CONCRETE STRUCTURES,</b> Dipl. Eng. Dita Vořechovská, Ph.D., Dipl. Eng. et Dipl. Eng. Kristýna Hrabová, Ph.D., Dipl. Eng. Dalibor Kocáb, Ph.D., Assoc. Prof., Dipl. Eng. Petr Konečný, Ph.D.....	583
<b>74. PROCEDURAL MODELLING OF BUILDINGS AND VISUALIZATION,</b> Rexhep Nikçi, Prof. Dr. Robert Župan, Marko Znaor.....	591
<b>75. THE RATIONALISATION SCHEME AS A CRUCIAL ASPECT OF URBAN GREENERY (GREEN WALLS),</b> Adéla Brázdová, Assoc. Prof. Jiří Kupka .....	599

<b>76. RENOVATION AND RECONSTRUCTION OF BUILT HERITAGE. CRITERIA, INSTRUMENTS, AND MEANS FOR ENERGY SAVINGS AT URBAN SCALE, Dr. Carlo Costantino, Dr. Anna Chiara Benedetti, Prof. Riccardo Gulli.....</b>	<b>607</b>
<b>77. SOCIO-ECONOMIC IMPACTS OF GREENERY AREAS IN URBAN DEVELOPMENT, Ing. Svatopluk Pelčák, prof. Ing. Jana Korytárová, Ph.D.....</b>	<b>615</b>
<b>78. SOLUTION OF ECONOMIC ANALYSIS OF INVESTMENT PROJECTS FOCUSED ON BROWNFIELD REVITALIZATION, Jakub Sabo, MSc., Assoc. Prof. Vít Hromádka, MSc., Ph.D.....</b>	<b>623</b>
<b>79. SUSTAINABLE ARCHITECTURE FROM THE POINT OF VIEW OF THE PRICING FACTORS OF NATIONAL CULTURAL MONUMENTS, David Brandejs, Dr. Pavel Klika.....</b>	<b>631</b>
<b>80. SUSTAINABLE DIALOG BETWEEN TRADITIONAL REVIVAL AND CONTEMPORARY MODELS IN THE CASE OF SAXON SETTLEMENTS IN TRANSYLVANIA, Assist. Lect. Dr. Arch. Voinea Alina Elena .....</b>	<b>641</b>
<b>81. THE CHALLENGES OF INTRODUCING A NEW GREEN BUILDING MATERIAL IN ENVIRONMENTALLY EMERGING COUNTRIES; A STAKEHOLDERS' PERCEPTIONS STUDY IN CYPRUS, Assoc. Prof. Dr. Christos Anastasiou, Assoc. Prof. Dr. Demetris Nicolaides, Assoc. Prof. Dr. Antonis Michael.....</b>	<b>649</b>
<b>82. THE DEVELOPMENT OF GREEN AREAS – THE PREMISE OF A SUSTAINABLE COMMUNITY, Assoc. Prof. Dr. Luciana Oprea, Prof. Dr. Habil. Ioan Ienciu .....</b>	<b>657</b>
<b>83. THE REDEVELOPMENT OF A PUBLIC GARDEN THROUGH LANDSCAPE ARCHITECTURE AND MODERN TOPOGRAPHY, Ph.D. Bârliba C., Ph.D. Bârliba Luminita Livia, Professor Ph.D. Samfira Ionel, Prof. Ph.D Nita Simona, MSc Bârliba F. C.....</b>	<b>665</b>

## **SECTION ANIMALS AND SOCIETY**

---

<b>84. ASPECTS REGARDING THE EVOLUTION OF APICULTURE, Dr. Carmen Simona Dumitrescu, Assoc. Prof. Dr. Cosmin Sălășan, Prof. Dr. Elena Peș, Prof. Dr. Sorin Mihai Stanciu, Dr. Pașcalău Raul .....</b>	<b>675</b>
<b>85. ASPECTS REGARDING THE IMPLEMENTATION OF THE 2030 AGENDA OBJECTIVES IN THE EUROPEAN UNION, Prof. Dr. Sorin Mihai Stanciu, Assist. Prof. Dr. Pașcalău Raul, Dr. Carmen Simona Dumitrescu.....</b>	<b>683</b>

**86. ENDOPARASITES FOUND IN LEPUS EUROPAEUS HUNTED IN WESTERN ROMANIA**, Jitea (Sîrbu) Beatrice Ana-Maria, Sîrbu Cătălin Bogdan, Florea Tiana, Hotea Ionela, Dărăbuș Gheorghe .....691

**87. GREENING HUMAN CAPITAL AND BUSINESS CYCLE: THE ROLE OF EDUCATIONAL POLICIES**, Marina Albanese, Francesco Busato, Gianluigi Cisco..... 699

**88. RESEARCH ON ENDOPARASITES OF DOMESTIC AND WILD RABBITS FROM SOUTH-WESTERN ROMANIA**, Sîrbu Cătălin Bogdan, Florea Tiana, Sîrbu Beatrice Ana-Maria, Plotuna Ana-Maria, Hotea Ionela .....707

**89. RESEARCH ON THE ANTIMICROBIAL EFFECT OF *ALLIUM SATIVUM* EXTRACT ON SOME STRAINS OF SALMONELLA SPP ISOLATED FROM DOGS**, Dr. Iancu Ionica, Prof. Dr. Herman Viorel, Prof. Dr. Nichita Ileana, Asist. Gligor Alexandru, Asist. Hulea Anca.....715