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The International Multidisciplinary Scientific GeoConference SGEM (Survey, Geology, Ecology and Management) are focused on GLOBAL WARMING, CLIMATE CHANGE, CO₂ 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, CO₂ 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, CO₂ 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 22nd edition of the conference.

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CONFERENCE PROCEEDINGS CONTENTS

NUCLEAR TECHNOLOGIES

1. GROUNDWATER PURIFICATION FROM RADIOACTIVE ISOTOPES AT NUCLEAR TEST SITES IN ATYRAU REGION OF KAZAKHSTAN, Prof. Makhambet Dzheksenov, Prof. Yerkin Bektay, Denis Skorobogatov, Meruert Bektayeva, Daniyar Jexenov3

RENEWABLE ENERGY SOURCES AND CLEAN TECHNOLOGIES

2. CHARACTERIZATION AND ACTIVITY OF COBALT BASED SBA-15 SUPPORTED CATALYSTS FOR CARBON DIOXIDE HYDROGENATION, PhD Zane Abelniece, Helle-Mai Piirsoo, Hugo Mandar, Aile Tamm 13

3. CLEAN ENERGY TRANSITION FOR SUSTAINABLE URBAN DEVELOPMENT, Prof. Dr. Ildiko Tulbure, Eng. Marius Berca, Eng. Mircea Salcudean.....19

4. CONVERSION OF WASTE INTO ENERGY, Eng. Vaclav Zyder, Tomas Pala, Eng. Daniela Mosova27

5. DIGITAL TRANSFORMATION AS A SUSTAINABLE DEVELOPMENT FACTOR IN THE ENERGY SYSTEM OF THE REPUBLIC OF TAJIKISTAN, Assoc. Prof. Dr. Nargis Mukimova, Assoc. Prof. Dr. Svetlana Beryozkina, Anusha Mirzo, Mavzuna Sayfudinova, Prof. Dr. Inga Zicmane35

6. DISTURBED MOVEMENT OF THE MOVING PART OF THE GYRO SUSPENSION, Prof. DSc. Igor Korobiichuk, Prof. DSc. Viktorij Melnick, Vera Kosova, Kateryna Maksymenko.....43

7. DYNAMIC SIMULATION OF THE EFFECT OF VENTILATION ON THE THERMAL MICROCLIMATE IN A WOODEN BUILDING, Eng. Andrea Badurova, Eng. Petra Stiborova51

8. ECO-EFFICIENT COMBUSTION IN THE TOP-LIT UPDRAFT BIOMASS GASIFICATION PROCESS, Eng. Ioan PAVEL, PhD Radu Radoi, PhD Gabriela Matache, PhD Gheorghe Sovaiala, Ana-Maria Popescu57

9 EXERGETIC ANALYSIS OF A VAPOR INJECTION COMPRESSION HEAT PUMP, Assoc. Prof. Dr. Claudia Ionita, Prof. Dr. Alexandru Dobrovicescu, PhD Daniel Dima65

10. EXPERIMENTAL AND NUMERICAL INVESTIGATION OF HYDROKINETIC TURBINE SHROUDS , PhD Paul Alexandru Danca, PhD Sergiu Nicolae, Assoc. Prof. Dr. Florin Bode, PhD Florentina Bunea.....	73
11. EXPERIMENTAL PERFORMANCE OF SOLAR THERMAL COLLECTOR SYSTEMS IN REAL OPERATION CONDITIONS IN LATVIA , PhD Stanislavs Gendelis, Mikus Mikelsons	81
12. EXPERIMENTAL STUDIES OF A LONG-TERM OPERATION OF DIFFERENT BATTERIES USED IN PV SYSTEM , PhD Stanislavs Gendelis.....	89
13. INFLUENCE OF IMMOBILIZATION SUPPORT MATERIAL TYPE ON THE ANAEROBIC DIGESTION , PhD Elza Mikheeva, Assoc. Prof. Dr. Inna Katraeva, PhD Andrey Kovalev, PhD Yuri Litti.....	97
14. INTEGRATION OF WIND TURBINES WITH A VERTICAL AXIS INTO THE URBAN ENVIRONMENT , Assoc. Prof. Dr. Svetlana Beryozkina, Firdavs Rahimov, Assoc. Prof. Dr. Alifbek Kirgizov, Murodbek Safaraliev, Assoc. Prof. Dr. Umida Bekmuratova.....	105
15. INFLUENCE OF ZEOLITE CATALYSTS IMPREGNATED WITH TRANSITION METALS ON THE PROCESS OF DEOXYGENATION OF VOLATILE PRODUCTS OF FAST PYROLYSIS OF FLAX SHIVES , Prof. Yury Kosivtsov, Assoc. Prof. Dr. Yury Lugovoy, Assoc. Prof. Dr. Kirill Chalov, Prof. Alexander Sidorov, Prof. Mikhail Sulman	113
16. INVESTIGATION OF HEAT AND MASS TRANSFER PROCESSES IN THE EXTRACTION OF VEGETABLE RAW MATERIALS UNDER THE CONDITIONS OF ULTRASOUND , Prof. DSc. Igor Korobiichuk, Prof. DSc. Viktorij Melnick, Zhanna Ostapenko, Assoc. Prof. Dr. Ludmila Ruzhinska	121
17. MODELING OF NONLINEAR STABILITY OF AUTOMATIC CONTROL SYSTEMS OF PELTIER THERMOELECTRIC MODULES , Assoc. Prof. Dr. Gleb S. Vasilyev, Prof. Dsc. Oleg R. Kuzichkin, Assoc. Prof. Dr. Dmitry I. Surzhik, Assoc. Prof. Bondarik Ksenya V.....	129
18. SELECTING THE OPTIMAL LIQUEFACTION CYCLE FOR CRYOGENICS ENERGY STORAGE , Assoc. Prof. Dr. Claudia Ionita, Prof. Dr. Alexandru Dobrovicescu, PhD Daniel Dima	137
19. POSSIBILITY OF IN SITU HYDROGEN GENERATION WITHIN GAS RESERVOIRS , Pavel Afanasev, PhD Evgeny Popov, Prof. Dr. Alexey Cheremisin, PhD Roman Berenblum, Evgeny Mikitin	145
20. SUSTAINABLE PACKAGING MATERIAL FOR COTTON PADS PRODUCTION IN LATVIA , Anastasija Otava, Lilita Abele	153

21. THE PROMOTIONAL EFFECT OF POTASSIUM ON IRON-BASED SILICA SUPPORTED CATALYST FOR CO₂ HYDROGENATION, Agija Stanke, PhD Kristine Lazdovica.....	161
--	-----

RECYCLING

22. ANALYSIS OF METHOD FOR POROSITY ASSESSMENT OF THE RECYCLED ALUMINUM CASTINGS, PhD Peter Blasko, Prof. Dr. Alena Pribulova, Assoc. Prof. Dr. Jozef Petrik, Assoc. Prof. Dr. Pavol Palfy, Assoc. Prof. Dr. Maria Mihalikova	169
--	-----

23. APPLICATION THE PRECISION TECHNOLOGIES THE MAIN PRODUCT AND BY-PRODUCT PROCESSING IN FOOD INDUSTRY, PhD Anita Csiba, PhD Arpad Ferenc	177
--	-----

24. PHYSICO-CHEMICAL REGULARITIES OF FORMATION STRUCTURES OF NON-FIRED GYPSUM MODIFIED STONE, Assoc. Prof. Dr. Kirill Petropavlovskii, Prof. Dr. Victoria Petropavlovskaya, Assoc. Prof. Dr. Tatiana Novichenkova, Prof. Dr. Mihail Sulman, Maria Zavadko.....	185
---	-----

25. HYDROMETALLURGICAL METHODS OF GALVANIC SLUDGE RECYCLING, Eng. Hana Rigoulet, PhD Silvie Brozova, Prof. Dr. Jaromir Drapala, Prof. Dr. Aleš Slíva	193
---	-----

26. INFLUENCE OF ALUMOSILICATE CONCENTRATE ON THE CHARACTERISTICS OF BUILDING MATERIALS, Prof. Sulman M.G., Assoc. Prof., Dr. Chalov K.V., Prof. Kosivtsov Yu.Yu., Assoc. Prof., Dr. Lugovoy Yu.V., Prof. Petropavlovskaya V.B.	201
---	-----

27. PROCESSING AND DISPOSAL OF MUNICIPAL WASTE OF A SELECTED COMPANY, Eng. Václav Zyder, PhD Marian Piecha, Eng. Daniela Mošová	209
--	-----

28. PRODUCTION OF AGLOPORITE FROM ASH OF VARIABLE COMPOSITION OF A COAL-FIRED POWER PLANT, PhD Leonid Delitsyn, Prof. Dr. Mikhail Sulman, PhD Ruslan Kulumbegov, PhD Oleg Popel, Prof. Dr. Yury Kosivtsov	217
--	-----

29. RECYCLING AND REUSE OF HYDRAULIC COMPONENTS AND MATERIALS, COMPONENT PRINCIPLES OF THE CIRCULAR ECONOMY, PhD Stefan Mihai Sefu, PhD Bogdan Alexandru Tudor, PhD Liliana Dumitrescu, PhD Ionela Baciu.....	225
--	-----

30. SYNTHESIS OF ENERGY- AND RESOURCE-SAVING GYPSUM COMPOSITIONS AS THE BASIS OF BUILDING MATERIALS AND PRODUCTS, Prof. Dr. Victoria Petropavlovskaya, Maria Zavadko, Assoc. Prof. Dr. Tatiana Novichenkova, Prof. Dr. Mikhail Sulman, Assoc. Prof. Dr. Kirill Petropavlovskii231

31. THE EFFECT OF CIRCULAR FARMING APPLICATION IN LIVESTOCK FARMING FOR THE REDUCTION OF HARMFUL EMISSION, PhD Anita Csiba, PhD Arpad Ferenc237

AIR POLLUTION AND CLIMATE CHANGE

32. AIR QUALITY ANALYSIS WITH THE HELP OF THE MOBILE LABORATORY AND PLOTTING DISPERSION MAPS IN CASE OF ACCIDENTAL POLLUTION, PhD Angelica Nicoleta Gaman, PhD Sorin Simion, PhD Marius Kovacs, PhD Lorand Thot247

33. ANALYSIS OF HYDRO-METEOROLOGICAL DISASTERS IN EUROPEAN UNION COUNTRIES IN THE PERIOD 2000-2021, PhD Viorel Arghius, PhD Stefanie Horatiu, Assoc. Prof. Dr. Liviu-Octavian Muntean, PhD Nicolae Baciu, PhD Corina Arghius255

34. ANALYSIS OF TEMPERATURE EXTREMES IN THE DANUBE LOWLAND AND THE DANUBIAN HILLS IN A CHANGING CLIMATE, Assoc. Prof. Jan Cimo, PhD Vladimir Kiss, PhD Jakub Pagac, Nikol Hamornikova263

35. ANALYSIS OF THE VARIABILITY OF THE WINTER PRECIPITATIONS AND TEMPERATURES IN TWO MOUNTAIN REGIONS OF BULGARIA, Assist. Prof. Dr. Dimitar Nikolov, Assist. Prof. Dr. Cvetan Dimitrov271

36. BACKGROUND CONCENTRATION OF AIR POLLUTANTS FOR SOFIA CITY – ANALYSIS FOR SUMMER AND WINTER MONTHS, Assist. Prof. Hristina Kirova, Prof. Dr. Dimiter Syrakov, Assist. Prof. Maria Prodanova, Assoc. Prof. Dr. Emilia Georgieva, Prof. Dr. Dimiter Atanassov279

37. BULGARIAN CASE STUDIES IN IMPROVING URBAN AIR QUALITY, Prof. Dr. Kliment Naydenov287

38. CARBON SEQUESTRATION FROM INDUSTRIAL EMISSIONS USING MICROALGAE: RESULTS OF LABORATORY MODELING, Darina Glazunova, PhD Liliya Biktasheva, PhD Polina Kuryntseva, Prof. Dr. Polina Galitskaya295

39. CLIMATE ASSESSMENT AND RISK ANALYSIS IN WESTERN AND NORTHWESTERN ROMANIA , Assoc. Prof. Dr. Vlad Dragoslav Mircov, Assoc. Prof. Dr. Adalbert Okros, Assoc. Prof. Dr. Casiana Mihut, Prof. Dr. Valeria Ciolac, Assoc. Prof. Dr. Carmen Claudia Durau	303
40. CLIMATE CHANGE IN SOFIA , Prof. Dr. Zoya Mateeva.....	309
41. EFFECT OF SOIL PHYSICAL PROPERTIES ON N₂O ISOTOPE FORMATION , Sindija Liepa, Kristaps Siltumens, Jovita Pilecka-Ulcugaceva, Assist. Prof. Inga Grinfelde, Dace Butenaite	317
42. IMPACTS OF GRASSLAND PLANT COMPOSITION ON GHG EMISSIONS IN CLAY SOIL , Kristaps Siltumens, Sindija Liepa, Assist. Prof. Inga Grinfelde, PhD Diana Ruska, PhD Dzidra Kreismane.....	325
43. LATITUDINAL VARIATIONS OF VOLCANIC SULFATE AND ITS INFLUENCE ON AIR TEMPERATURE , Prof. DSc. Yavor Chapanov	333
44. NOISE LEVEL REDUCTION BY USING SOUND INSULATION / SOUND ABSORBENT MATERIALS , PhD Sorin Simion, PhD Angelica Nicoleta Gaman, Alexandru Simion, Romeo Hriscan.....	341
45. PECULIARITIES IN THE INITIAL STAGES OF DEVELOPMENT FOR SOME FRUIT TREES, DEPENDING ON THE TEMPERATURE CONDITIONS , Petya Malasheva, Prof. Dr. Valentin Kazandjiev, Assoc. Prof. Dr. Veska Georgieva.....	349
46. RELATIONSHIP BETWEEN NORMALISED DIFFERENCE VEGETATION INDEX, PRECIPITATION AND DROUGHT INDICES (CASE OF KAKHETI, GEORGIA) , PhD Mariam Tsitsagi, Zaza Gulashvili, PhD Nana Bolashvili, PhD Marika Tatishvili, Nikoloz Suknidze	357
47. RIVER BANK FILTRATION FOR WASTEWATER REUSE IN IRRIGATION: ADAPTATION TO CLIMATE CHANGE , Assoc. Prof. Ziad Al-Ghazawi, William Blanford	365
48. SPATIAL AND TEMPORAL VARIABILITY OF NITROGEN OXIDES CONCENTRATIONS IN THE SOUTH-EASTERN PART OF ROMANIA , Prof. Dr. Gabriel Murariu, Prof. Dr. Romana Drasovean, Prof. Dr. Romica Cretu, Prof. Dr. Simona Condurache-Bota, Iulian Racovita	375
49. SPATIAL AND TEMPORAL VARIABILITY OF SULFUR AND CARBON OXIDE CONCENTRATIONS IN THE SOUTH-EASTERN PART OF ROMANIA , Prof. Dr. Gabriel Murariu, Prof. Dr. Romica Cretu, Prof. Dr. Romana Drasovean, Prof. Dr. Simona Condurache-Bota, Iulian Racovita.....	383

50. STUDY OF MICROALGAE INFLUENCE ON CARBON CAPTURE FROM GASEOUS STREAMS WITHIN THE BIOTRICKLING FILTRATION PROCESS , Assoc. Prof. Dr. Gabriela Soreanu, Prof. Dr. Igor Cretescu, Assoc. Prof. Dr. Doina Lutic, Prof. Dr. Maria Harja, Assoc. Prof. Dr. Stelian Sergiu Maier	391
51. STUDY OF THE INFLUENCE OF DRONES ON THE MEASUREMENT OF AIR POLLUTANTS , Eng. Marek Hutter, Assoc. Prof. Dr. Radomir Scurek, PhD Vera Holubova	399
52. CLIMATIC INFLUENCES CONSIDERED IN PAVEMENT DESIGN METHODOLOGY , PhD Andrea Zuzulova, PhD Dominika Hodakova, PhD Silvia Capayova, Assoc. Prof. Tibor Schlosser, PhD Jiri Grosek	405
53. THE SPATIAL AND TEMPORAL DISTRIBUTION OF LEAD IN SNOW: CASE STUDY OF JELGAVA CITY , Kristaps Siltumens, Sindija Liepa, Juris Burlakovs, Oskars Purmalis, Viktorija Visocka.....	413
54. THE SPATIAL AND TEMPORAL DISTRIBUTION OF ZINC IN SNOW: CASE STUDY OF JELGAVA CITY , Jovita Pilecka-Ulcugaceva, Assist. Prof. Inga Grinfelde, Reinis Mednis, Anda Bakute, Kristaps Siltumens	421
55. TOWARDS LOW-CARBON EMISSION BIOTRICKLING FILTRATION OF VOLATILE ORGANIC COMPOUNDS FROM AIR: AN ARTIFICIAL NEURAL NETWORK APPROACH , Assoc. Prof. Dr. Gabriela Soreanu, Prof. Dr. Igor Cretescu, PhD Elena Niculina Dragoi, Assoc. Prof. Dr. Doina Lutic, Prof. Dr. Florin Leon.....	429