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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 AGENDA 2030 Goals - GLOBAL WARMING, CLIMATE CHANGE, CO₂ REDUCTION, BIODIVERSITY, AND GREEN TECHNOLOGIES FOR A SUSTAINABLE FUTURE.

In an ever-evolving world, amidst the vast expanse of the universe, Earth remains our singular home — a beacon of life, mystery, and endless curiosity. It is with immense pride and anticipation that we present the **2023 Conference Proceedings in Earth and Planetary Science, a collective endeavor of minds passionate about our world and the celestial wonders beyond.**

The beauty of science, particularly in the realm of geosciences, lies in its ability to unite us. It transcends borders, politics, and cultural divides, binding us together in pursuit of knowledge, understanding, and enlightenment. This year, our focus aligns with the noble aspirations of Agenda 2030, reminding us that our planet's health and sustainability are integral to our shared future. Every paper within these pages stands as a testament to our collective commitment to that goal.

Moreover, this conference encapsulates the harmonious dance between the Earth as a place we live in and to care for, and the Planet, with its place in the Universe - different but intertwined, sharing the primary goal of interpreting, understanding and celebrating the Universe and our place in it. Like an artist who captures the majesty of a mountain range or the vastness of space, our researchers, too, paint with data, hypotheses, and discoveries, sketching a future where knowledge drives progress.

In a world where discord often grabs headlines, this gathering underscores that there exist realms untouched by strife, where camaraderie and cooperation reign supreme. This is the world of geosciences: a haven for curious minds, a frontier for explorers, a canvas for dreamers.

As you delve into these meticulously peer-reviewed articles, let them not only inform you but inspire you. Let them remind you of the magic that happens when diverse minds converge for a singular purpose. **And let them serve as a beacon of hope, signaling a future where science, with its inherent artistry, continues to light our way.**

**In anticipation of the better future and optimism,
Sincerely yours,**

Prof. DSc. Oleksandr Trofymchuk
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CONFERENCE PROCEEDINGS CONTENTS

RENEWABLE ENERGY SOURCES AND CLEAN TECHNOLOGIES

- 1. ADVANCEMENTS IN WEARABLE THERMOELECTRIC GENERATORS: MATERIALS, DESIGNS, AND MANUFACTURING TECHNIQUES FOR SUSTAINABLE ENERGY HARVESTING**, Cristina Elena Stroe, Teodor Sârbu.....3
- 2. ANALYSIS OF AVAILABILITY OF ALTERNATIVE ENERGY SOURCES IN THE ADRIATIC SEA AND THEIR APPLICABILITY FOR ENVIRONMENTALLY FRIENDLY FISHING VESSELS**, Marija Koričan, mag. ing. mech., Assoc. Prof. Dr. Tatjana Haramina, Assoc. Prof. Dr. Krešimir Vučković, Assoc. Prof. Dr. Neven Aluejvić, Assoc. Prof. Dr. Nikola Vladimir..... 11
- 3. ANALYSIS OF THE RISKS GENERATED BY HYDROGEN FILLING STATIONS FOR GREEN MOBILITY**, Stud. Ph.D. Cristian Raul Cioara, Ph.D. Nicolae Vlasin, Ph.D. Vlad Mihai Păsculescu, Eng. Ligia Ioana Tuhuț, Eng. Andrada Denisa Matei..... 19
- 4. COMPARATIVE ANALYSIS FOR COMBUSTION CH₄ AND H₂ FOR COAXIAL JET BURNERS (DIFFUSE COMBUSTION)**, Prof. Dr. Eng. Lucian Mihaescu, Prof. Dr. Eng. Dorin Stanciu, Prof. Dr. Eng. Gheorghe Lazaroiu, Ress. Assist. Eng. Elena-Adriana Jarcu, Ress. Assist. Eng. Rodica Manuela Grigoriu27
- 5. CONCEPT OF AUTONOMOUS TEXTILE FOIL KITE - WIND ENERGY GENERATOR**, Ing. Salistean, Adrian, Mat. Jomir, Constantin.....35
- 6. CONCEPTUAL ANALYSIS ON THE USE OF HYDROGEN TO REDUCE CO₂ EMISSIONS FROM FLUE GASES**, Prof. Dr. Eng. Gheorghe Lazaroiu, Prof. Dr. Eng. Lucian Mihaescu, PhD. Eng. Elena-Adriana Jarcu, PhD. Eng. Rodica Manuela Grigoriu43
- 7. ELECTRICAL RESISTIVITY DISTRIBUTION ANALYSIS FOR TEXTILE STRUCTURES BASED ON COPPER YARNS**, Dr. eng. Grosu, Marian Catalin, Dr. eng. Aileni, Raluca Maria, Ph D. eng. Sarbu, Teodor.....51
- 8. ENERGY HARVESTING USING THERMOELECTRIC GENERATORS – CASE STUDY**, Dr. Adrian Nedelcu, Dr. Paul Alexandru Danca, Dr. Corina Babutanu, Dr. Sergiu Nicolaie, Dr. Florentina Bunea59
- 9. EQUIPMENT WITH HYDROSTATIC DRIVE AND HYBRID ENERGY SOURCE FOR CONSTRUCTION WORKS**, PhD. Eng. Cătălin Dumitrescu, PhD. Stud. Eng. Alexandru-Polifron Chiriță, PhD. Eng. Radu Iulian Rădoi, PhD. Eng. Adriana Mariana Borș, Dipl. Eng. Cătălin Dragomir.....67

10. FEASIBILITY STUDY ON PREREQUISITES AND SPECIFICS OF FLOATING WIND FARMS DEPLOYMENT IN THE BULGARIAN OPEN SHELF , Dr. Grigor Nikolov, Prof. DSc. Dimitar Truhkchev, Prof. Dr. Rumen Kishev, MSc. Daniel Fellows, Dr. Peycho Kaloyanchev	75
11. GEOTHERMAL ENERGY FEATURES AND WATER SOURCES IN THE AREA OF ELBASANI, ALBANIA , Dr. Elvin Çomo, Dr. Albana Hasimi, Prof. Dr. Rrapo Ormeni, Dr. Astrit Shatro, Msc. Mirela Dvorani.....	85
12. METHODS OF RECYCLING LITHIUM ION BATTERIES , Teodor Sârbu.....	93
13. NEW ASPECTS OF EXPLOSION CHARACTERISTICS OF SELECTED HYBRID MIXTURES , Bc. Iris Helegda, Ing. Matouš Helegda, Ing. Jan Skřínský, Ph.D., Ing. Kateřina Kubrická, Ing. Marek Podkul	101
14. POSSIBILITIES OF ENERGY USE OF WASTE FUELS IN HEAT SOURCES IN HOUSEHOLDS , assoc. Prof. Ing. Michal Holubčík, PhD., prof. Ing. Jozef Jandačka, PhD., Ing. Nikola Čajová Kantová, PhD., Ing. Róbert Cibul'a	109
15. RESEARCH ON RESILIENCE OF INTERVENTION AND RESCUE PERSONNEL , Phycologist Izabella Kovacs, PhD. Eng. Alin Irimia, PhD. Eng. Daniel Pupazan, PhD. Eng. Cosmin Ilie, PhD. Eng. Andrei Gireada	117
16. RENEWABLE ENERGY - FLOATING SOLAR FARMS IN ROMANIA , Assist. Prof. Dr. Ing. Frățița, Michael; Academician Prof. Dr. Ing Rusu, Eugen; Prof. Dr. Ing. Popescu, Florin; Prof. Dr. Ing. Ion, Ion; Dr. Ing. Mahu, Razvan	125
17. RESEARCH ON THE MANAGEMENT OF INTERVENTION AND RESCUE ACTIVITY IN THE FIELD OF ENERGETIC USE OF HYDROGEN , PhD. Eng. Alin Irimia, Phycologist Izabella Kovacs, PhD. Eng. George Artur Gaman, PhD. Eng. Daniel Pupazan, PhD. Eng. Cristian Nicolescu.....	133
18. THE INFLUENCE OF VENTILATION SYSTEMS WITH HEAT RECOVERY IN ESTABLISHING CALCULATION HEAT REQUIREMENTS , Phd. Florin Vladimir Mihailov, Prof. univ. dr. ing. Gratiela Maria Tarlea.....	141
19. VIRTUAL DESIGN OF STANDS FOR EXPERIMENTING WITH HYDROGEN EXPLOSIONS , PhD. Nicolae-Ioan Vlasin, PhD. Stud. Cristian Raul Cioara, Eng. Gheorghe Daniel Florea, PhD. Stud. Adrian Bogdan Simon-Marinica, Eng. Zoltan Vass.....	149

RECYCLING

- 20. INNOVATIVE RECYCLING OF BIOPOLYMERIC WASTES FOR ENVIRONMENTAL APPLICATION**, Dr. Georgeta Predeanu, Eng. Valerica Slăvescu, Dr. Ana-Maria Manea-Saghin, Prof. Dr. Aurelia Meghea, Dr. Mihaela Bălănescu..... 159
- 21. INVESTIGATION OF RECYCLED POLYOL PRODUCED FROM SEMI-RIGID POLYURETHANE FOAM OUTSOURCED FROM THE AUTOMOTIVE INDUSTRY**, Ing. Petr Montag, Assoc. prof. Alena Kalendova, Ph.D..... 167
- 22. PHYSICO-MECHANICAL CHARACTERIZATION OF AN ECOLOGICAL MARBLE BASED- MORTAR**, Assoc. Prof. Dr. Kahina Chahour, Prof. Brahim Safi 175
- 23. PROCESSING OF MANGANESE-CONTAINING WASTES TO PRODUCE MANGANESE PELLETS FOR FERROALLOY PRODUCTION**, Res. Assist. Aisha Tastanova, Prof. Yerzhan Kuldeyev, Ph.D. Gulnar Abdykirova, Ph.D. Alla Biryukova, Ph.D. Saniya Temirova..... 183
- 24. REUSE OF DUSTS FROM CAST IRON CASTINGS PRODUCTION IN FOUNDRY**, Prof. Ing. Alena Pribulova, PhD., Assoc. Prof. Ing. Peter Futas, PhD., Assoc. Prof. Ing. Jozef Petrik, PhD., Ing. Peter Blasko, PhD., Ing. Patrik Fedorko 191
- 25. RECYCLING OF PLASTICS AND POSSIBLE USES AND TECHNOLOGIES**, Ing. Václav Zyder, Ing. Jaroslav Hubáček, Ph.D., Ing. Ondřej Grycz, Ph.D., doc. Ing. Marian Piecha, Ph.D., Ing. Petr Šikýř 199
- 26. THE INFLUENCE OF THE USED FOUNDRY SAND AND WASTE FROM PIPE BLASTING ON THE QUALITY OF CONCRETE**, Prof. Ing. Alena Pribulova, PhD., Ing. Patrik Fedorko, Ing. Peter Blasko, PhD., Assoc. Prof. Ing. Jozef Petrik, PhD., Assoc. Prof. Ing. Peter Futas, PhD..... 209
- 27. USE OF REGRESSION ANALYSIS TO REDUCE WASTE IN THE DEFORMATION OF $\alpha + \beta$ TITANIUM ALLOYS**, Assoc. Prof. Ing. Peter Futas, PhD., Prof. Ing. Alena Pribulová, PhD., Assoc. Prof. Ing. Jozef Petrik, PhD., Ing. Peter Blasko, PhD., Assoc. Prof. Ing. Mária Mihaliková, PhD..... 217

AIR POLLUTION AND CLIMATE CHANGE

- 28. AGROMETEOROLOGICAL CONDITIONS IN CENTRAL NORTH BULGARIA REGION FOR MAIZE GROWING**, V. Georgieva, V. Kazandjiev, M. Ilchovska, N. Petrovska, V. Valkova..... 227

- 29. ASPECTS OF CRITICAL VELOCITY VARIATION FOR FIRE AND AIR POLLUTION CONTROL IN ROAD TUNNELS**, Omar Lanchava, Giorgi Javakhishvili, Teimuraz Kunchulia, Zaza KhokeraSvili, Nino Arudashvili237
- 30. ASSESSMENT OF DROUGHT IN BULGARIA IN RECENT YEARS THROUGH THE STANDARDIZED PRECIPITATION INDEX**, Radoslav Evgeniev, M. Sc. Eng. Krastina Malcheva, Prof. Dr. Tania Marinova, Assoc. Prof. Dr. Hristo Chervenkov, Assoc. Prof. Dr. Lilia Bocheva245
- 31. BULGARIAN GAS HYDRATE PROGRAM: NEW PARADIGM AVOIDS CLIMATE AND ENERGY CRISES WITHOUT TECHNOLOGICAL AND SOCIAL PROBLEMS**, Dr. Atanas Vasilev, Prof. Dr. Bjørn Kvamme, Assoc. Prof. Dr. Nikola I. Botusharov, Rositsa Pehlivanova, Petar Petsinski253
- 32. CHEMICAL COMPOSITION OF FINE AIR PARTICULATE MATTER IN URBAN CONDITIONS**, Assoc. Prof. Dr. Blagorodka Veleva, Assoc. Prof. Dr. Elena Hristova, Assoc. Prof. Ivan Beslic.....261
- 33. DETERMINATION OF THE HEAT REQUIREMENTS DURING THE ECODORMANCY FOR THE CHERRY (PRUNUS AVIUM) IN BULGARIA**, Assistant Petya Malasheva, Assoc. Prof. Dr Veska Georgieva, Prof. Dr. Valentin Kazandjiev269
- 34. DEVELOPMENT OF TEMPERATURE EXTREMES IN EASTERN SLOVAKIA**, Ing. Martin Minárik, Assoc. Prof. Dr. Ján Čimo, Dr. Vladimír Kišš.....277
- 35. FORMATION OF N2O ISOTOPES IN AGRICULTURAL SOILS**, Bc.sc.ing. Sindija Liepa, Mg.sc.ing. Dace Butenaite, Mg.sc.ing. Jovita Pilecka-Ulcugaceva, Kristaps Siltumens, Assist.prof. Inga Grīnfelde285
- 36. FUGITIVE DUST IN THE EXTRACTIVE SECTOR: AN EXPERIMENTAL STUDY AT AN ITALIAN QUARRY**, PhD, Eng. S. Carbone, Dr. V. De Brito293
- 37. INTERPRETATION OF CLIMATE RISK FACTORS FOR THE PERIOD 2019-2022 IN THE WESTERN AREA OF ROMANIA**, Assoc. prof. Vlad Dragoslav Mircov, Assoc. prof. Adalbert Okros, Assoc. prof. Casiana Doina Mihut, Assoc prof. Anișoara Duma Copcea, Assoc. prof. Codruța Chiș301
- 38. LOCAL MICROCLIMATES AND CLIMATE CHANGES INFLUENCE ON CULTIVATION TECHNIQUES, GRAPEVINE PRODUCTION AND QUALITY**, Prof. DSc. Alin Dobrei, Assoc. Prof. DSc. Eleonora Nistor, Assist. Prof. DSc. Scedei, Daniela, Assoc. Prof. DSc. Alina Georgeta Dobrei.....307
- 39. PERCEPTION OF CLIMATE CHANGE: CASE STUDY TIMIȘ COUNTY, ROMANIA**, Assoc. Prof. Dr. Codruța Chiș, Assoc. Prof. Dr. Dragoslav Vlad Mircov, Assoc. Prof. Dr. Antoanela Lena Cozma, Assoc. Prof. Dr Adalbert Okros, Assoc. Prof. Dr Carmen Claudia Durău317

40. RECENT CLIMATE ASSESSMENT AND FUTURE CLIMATE CHANGE IN BULGARIA – BRIEF ANALYSIS , Assoc. Prof. Dr. Lilia Bocheva, Assist. Prof. Krastina Malcheva, Assoc. Prof. Dr. Hristo Chervenkov	323
41. REDUCTION OF METHANE EMISSION FROM LANDFILLS WITH CELLULOSE IN BIOCOVER , Bc.sc.ing. Kristaps Siltumens, Assoc. Prof. Inga Grinfelde, Mg.sc.ing. Sindija Liepa , Dr. Juris Burlakovs, Sabine Makejeva	331
42. THE INFLUENCE OF CLIMATIC CONDITIONS ON CABERNET SAUVIGNON AND SAUVIGNON BLANC BERRY QUALITY PARAMETERS , Assoc. Prof. DSc. Eleonora Nistor, Assoc. Prof. DSc. Alina Georgeta Dobrei, Assist. Prof. DSc. Gabriel Ciorica, Prof. DSc. Alin Dobrei.....	339
43. THE SPATIAL AND TEMPORAL DISTRIBUTION OF ALUMINUM EMISSIONS IN AIR FROM TRANSPORT IN JELGAVA , Res. Assist. Jovita Pilecka-Ulcugaceva, Assist. Prof. Inga Grinfelde, PhD Candidate Anda Bakute, Dr. Juris Burlakovs, PhD Candidate Maris Bertins	347

