INTERNATIONAL ANKARA CONGRESS ON SCIENTIFIC RESEARCH VI April 1-3, 2022 Ankara - TURKEY

THE PROCEEDINGS BOOK

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EDITOR: Prof. Dr. Müslüme NARIN

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(THE PROCEEDINGS BOOK)

EDITOR Prof. Dr. Müslüme NARİN

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CONTENT

AUTHORS	PRESENTATION TITLE	NO
Güler GÖÇEN KABARAN	DISTANCE EDUCATION IN THE PANDEMIC PERIOD: SWOT ANALYSIS	1-10
Mükremin CEYLAN & Keziban ORBAY	EVALUATION OF MATHEMATICS ACHIEVEMENTS IN VILLAGE SCHOOL BY CLASSROOM TEACHERS	11-12
Gürbüz OCAK & Ceyhun GÖKÇE & Akın KARAKUYU	EXAMINATION OF SECONDARY SCHOOL STUDENTS' EPISTEMOLOGICAL BELIEFS TOWARDS MATHEMATICS CLASS	13-20
Ali TAŞ & Birsen Karakuş YILDIZ & Fatma YILMAZ & Mutlu Sadık FIDAN & Müge Bahar KILIÇ & Yasemin ÜNSAL	INVESTIGATION OF ACCES TO EDUCATION AND ATTENDANCE IN PRIMARY EDUCATION IN TURKEY	21-38
Esra ERGİN & Büşra ERGİN & Emine ARSLAN KILIÇOĞLU	THE "SIBLING" METAPHOR FROM ADLER'S PERSPECTIVE	39-41
Hulusi ALP & Gülşah HASTÜRK	EXAMINING THE RELATIONSHIP BETWEEN ATHLETES AND COACHES IN TERMS OF DIFFERENT VARIABLES	42-49
Ulaș Can YILDIRIM	HIGH ALTITUDE TRAINING METHODS - LIVE AT LOW ALTITUDE, TRAIN AT HIGH ALTITUDE	50-51
Abdullayeva Tarana	TECHNOLOGY OF SITUATIVE PROBLEM SOLUTION IN BIOLOGY PROBLEM SOLUTION	52-56
Osman Sinan BAKIR & Gamze ÖZBEK GÜVEN	THE FOUNDATION PROCESS OF A NEW UNIVERSITY AND ITS FACULTY OF MEDICINE IN OUR COUNTRY "The Story of Effort, Self- Abnegation, Excitement and Success"	57-69
Aylin GÖKHAN & Cansın ŞİRİN & Canberk TOMRUK & Kubilay Doğan KILIÇ & Türker ÇAVUŞOĞLU	PLATELET-RICH PLASMA IN VITRIFICATION; IS IT HELPFUL OR HARMFUL?	70-71
Burcu POLAT GÜLTEKİN & Mualla HAMURCU	EARLY VASCULAR CHANGES IN DIABETIC CASES USING OPTICAL COHERENCE TOMOGRAPHY ANGIOGRAPHY	72-73
Burhan APILIOĞULLARI & Sami CERAN	FOREIGN BODIES IN THE ESOPHAGUS: 117 CASES	74-79

Flena Sierikova		
& Elena Strelnikova	FLOODING IMPACT ON SEISMIC HAZARD INCREASING OF URBAN TERRITORIES	1047-1048
Elena Sierikova & Elena Strelnikova & Vasil Gnitko	THE EARTHQUAKE LOADS INFLUENCE ON STORAGE RESERVOIRS FOR ENVIRONMENTALLY HAZARDOUS LIQUIDS	1049-1050
Nacima Deghiche-Diab & Lahcen Deghiche & Voucef Islem Belhamra	SPONTANEOUS PLANTS DIVERSITY UNDER ZIBAN PALM GROVES ECOSYSTEM IN BISKRA REGION. ALGERIA	1051-1061
Amira Gharbi	ETHANOLIC EXTRACT OF RUBBER PLANT AS A GREEN INHIBITOR FOR THE CORROSION OF CARBON STEEL	1062
Petya Parvanova & Teodora Todorova & Maria Dimitrova & Martin Dimitrov & Krasimir Boyadzhiev & Boriana Sidjimova & Milena Nikolova & Strahil Berkov & Strahil Berkov	ON THE MODE OF ACTION OF NARCISSUS CV HAWERA TOTAL LEAVES EXTRACT ON CHLAMYDOMONAS REINHARDTII	1063-1064
Elena Zidarova & Teodora Todorova & Petya Parvanova & Maria Dimitrova & Krassimir Boyadzhiev & Martin Dimitrov & Stephka Chankova	COMPARATIVE ASSESSMENT OF GENOTOXIC AND DNA DAMAGING POTENTIAL OF ESSENTIAL OILS ON CHLAMYDOMONAS REINHARDTII AND SACCHAROMYCES CEREVISIAE	1065-1066
Nadya Agova & Svetlana Georgieva & Ivelin Iliev & Cvetelina Kostadinova & Emiliq Georgieva & Gergana Nedelcheva	OIL FROM ROSA DAMASCENA – EXTERNAL APPLICATION AND ANTIBACTERIAL ACTIVITY	1067-1072
Nadya Agova & Ivelin Iliev & Svetlana Georgieva	POTENTIAL RISK OF 2- (4-TERT-BUTYLBENZYL) PROPIONALDEHYDE (LISMERAL) USE AND PREDICTION OF SKIN TOXICITY USING QSAR TOOLBOX	1073-1078
Asmaa BENAISSA	BIOREMEDIATION : MICROORGANISMS SERVING THE ENVIRONMENT	1079-1085

FLOODING IMPACT ON SEISMIC HAZARD INCREASING OF URBAN TERRITORIES

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ABSTRACT

Technogenic activities in the mining regions of various countries, including Ukraine, have reached such scale that could cause the artificial earthquakes, dips and landslides. Gradually, with the mining operations development at the initial stage there is the weak technogenic seismicity in the mine seismicity form and weak shocks, and then after decades as a result of intense and prolonged impacts on the subsoil there are strong natural technogenic earthquakes.

Urban development and technogenic impact on the environment increase water consumption, increase industrial and urban construction, change natural riverbeds, create reservoirs, develop flooding processes, which, in turn, could increase seismic hazards for industrial buildings, even in areas were not in the affected by earthquakes area. Earthquakes destroy environmentally hazardous objects, roads, bridges and the most reliable buildings with the steel frame, interrupt the water supply, gas and electricity, cause explosions and fires. This leads to emergencies¹.

The destruction of modern reliable structures during the earthquake is usually associated not with poor construction quality, but with the unfavorable behavior of the base soils and caused by the following effects: selective intensification of certain frequencies, flooding or partial loss of strength, landslides, and as the result of soil flooding².

Researches of destroyed buildings on different soils types have shown the dependence of seismic intensity on the soil type and its water saturation. It has been proved that with increasing water saturation in shallow sediments, the theoretically calculated seismic velocities decrease in clay and increase in sand due to the corresponding stresses between particles in these media.

The 10 m and more groundwater level does not affect the magnitude of the seismic intensity of the earthquake. Within the upper 10-meter stratum, the increase in the groundwater level from 10 to 0 m leads to the increase in the earthquake intensity, and its intensity also depends on the soil stratum type.

¹ Sierikova E. Strelnikova E. Gnitko V. Kryutchenko D. Reservoirs seismic resistance. Proceedings book of 6th International Congress on Innovative Scientific Approaches. December 19-20, 2021, Samsun, Turkey. IKSAD GLOBAL Publishing House. 2021. P. 264-267.

² Sierikova E., Strelnikova E., Kryutchenko D. Seismic loads estimation on the storage tanks for toxic and flammable liquids. Bulletin of V.N. Karazin Kharkiv National University series «Mathematical modeling. Information technology. Automated control systems» issue 51, 2021. P. 70–80. https://doi.org/10.26565/2304-6201-2021-51

In some cases S.V. Medvedev noted the explosions of seismometric observations showed the increase in the speed of oscillations almost twice on water-saturated soils compared to soils in the natural humidity state³.

The scientific research analysis has shown that in large cities of Ukraine, first, there is no necessary monitoring system to control the groundwater regime, caused by economic difficulties⁴. Therefore, assessing and forecasting the flooding development in recent years in these areas is much more difficult. Methods and techniques for flooding forecasting of urban areas require the models development that take into account such complex technogenic factors as artificial coatings that reduce transpiration through plants, evaporation from groundwater and changes in groundwater balance under the influence of additional replenishment and groundwater abstraction. Thus, the processes and factors of groundwater level change research in forecasting their maximum rise, which will quantify the flooding risk, is the urgent scientific and applied issue in terms of large cities environmental safety⁵.

The flooding development monitoring and the hydrogeological maps creation should be the important contribution to the seismic intensity forecasting and emergencies provoked by this phenomenon prevention⁶.

Therefore, in seismically hazardous areas, buildings with anti-seismic reinforcement should be erected in vulnerable areas of the structure and taking into account the possible tendency to technogenic earthquakes and baldness increasing in the region.

Keywords: earthquakes, technogenic seismicity, flooding

³ Sierikova E., Strelnikova E. Evapotranspiration factor in 3D mathematical modeling of groundwater level changes. II. International Hazar Scientific Researches Conference. (April 10 - 12, 2021) Khazar University, Baku, Azerbaijan. 2021. P.334–336.

⁴ Sierikova E.N., Strelnikova E.A. Mathematical Modeling of Groundwater Level Changing with Considering Evapotranspiration Factor. International Journal of Modern Studies in Mechanical Engineering (IJMSME). Volume 6, Issue 1, ARC Publications, LLC, USA. 2020. P. 19–25. DOI: http://dx.doi.org/10.20431/2454-9711.061003

⁵ Sierikova, E.; Strelnikova, E.; Pisnia, L.; Pozdnyakova, E., (2020). Flood risk management of Urban Territories. Ecology, Environment and Conservation 26 (3): 1068-1077

⁶ Sierikova E., Strelnikova E. Environmental safety of building development on the Kharkiv city flooding areas example. Noble International Journal of Scientific Research. Vol. 03, No. 08. 2019. pp. 72-78.