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## CONTENTS

	<i>Business, Economics &amp; Management</i>	8
Afanasyev V.O., Fomin M.V. <b>ISLAND DZHARYLGACH AS AN OBJECT OF DEVELOPMENT OF ECOLOGICAL TOURISM IN UKRAINE</b>		9
Sofiko Dzhvarsheishvili, <b>FOREIGN DIRECT INVESTMENTS IN GEORGIA</b>		10
Helman Valentina Mikolayivna, <b>THE ENTERPRISE LIFE CYCLE AND EMPLOYEE LIFE CYCLE: USE MODELS IN STAFFING PRACTICE TO MANAGEMENT EFFICIENCY</b>		11
Oleksii Bezchasnyi, Olha Yarmolitska <b>SPECIAL ASPECTS THE COMMUNICATION PROCESS IN THE ACCOUNTING SYSTEM OF THE ENTERPRISE IN TERMS OF DEVELOPMENT</b>		12
Yaroslav Ivanovich Chaikovskiy, <b>PAYMENT CARDS AS AN INNOVATIVE WAY OF PAYING FOR TRANSPORT SERVICES</b>		13
Gasimova Afet Ayat kyzy, Mamedova Solmaz Elnur kyzy, <b>EXPLORING THE NUTRITIONAL HABITS OF FOREIGN TOURISTS FROM FRANCE</b>		14
Klaus Lagler, <b>INCREASING INVESTMENT ATTRACTIVENESS OF REGIONS ON THE BASIS OF CLUSTERS DEVELOPMENT</b>		17
Фомин М.В., Хоруженко С.Ю., <b>ПЕРСПЕКТИВЫ РАЗВИТИЯ ЭКОЛОГИЧЕСКОГО ТУРИЗМА В ЧУГУЕВСКОМ РАЙОНЕ ХАРЬКОВСКОЙ ОБЛАСТИ</b>		18
Щербак Сергій Михайлович, <b>КОНЦЕПЦІЯ «ДЕРЖАВИ ДОБРОБУТУ» В ЕКОНОМІЧНІЙ ТЕОРІЇ І ПРАКТИЦІ</b>		19
Khomiuk Nataliia, <b>DEVELOPMENT OF RURAL TERRITORIES IN CONDITIONS OF DECENTRALIZATION</b>		21
Заворотній Святослав Ігореович, <b>ЕКОНОМІКО-БЕЗПЕЧНИЙ РОЗВИТОК У СУЧАСНОМУ СВІТІ: ІНДИКАТОРИ І ЧИННИКИ МАКРОЕКОНОМІЧНОЇ ДИНАМІКИ</b>		22
Ніколенко Сергій Степанович, <b>ТЕОРЕТИЧНІ ЗАСАДИ «НЕСПРОМОЖНОЇ ЕКОНОМІКИ»</b>		24
РУБЕЛЬ Олег Евгеньевич, ЖИХАРЕВА Алина Анатольевна, <b>АСПЕКТЫ ВНЕДРЕНИЯ И РАЗВИТИЯ ИНСТРУМЕНТА РЕЗУЛЬТАТИВНОГО ФИНАНСИРОВАНИЯ НАУЧНЫХ ИССЛЕДОВАНИЙ</b>		25
	<i>Chemical &amp; Material Science</i>	27
Kaldybayeva Altynay Samatkyzy, <b>EFFECTIVE OBTAINING OF THE ZINC PHOSPHATE FOR USE AS AN ANTICORROSIVE COATING IN OIL AND GAS INDUSTRY</b>		28
	<i>Engineering &amp; Computer Science</i>	29

Zakir Magerramov, Vugar Abdullayev, Aynur Magerramova, T.A.Mammadova, <b>BIG DATA: PROBLEMS, ANALYSIS METHODS, ALGORITHMS</b>	30
Mirov Behruz Kudratovich <b>PROBLEMS OF CAR TRANSFER TO GAS FUEL UNDER THE CONDITIONS OF TAJIKISTAN</b>	31
Baratashvili Merab Pavlovich, Gintibidze Nino Gavrilovna, <b>THE POSSIBILITY OF ARRANGING GREEN COVER FOR THE REDUCTION OF POLLUTION CAUSED BY THE COLLAPSE OF THE ROAD SLOPE AND TRANSPORTATION</b>	32
Shamilova Bahar Gurban, <b>THE ROLE OF INTERACTIVE WHITEBOARDS IN THE EDUCATION PROCESS</b>	33
Matsui Anatolii Nikolaevich, Abashina Anastasiia Andreevna, <b>FEATURES OF MODERN INDUSTRIAL ROBOTS</b>	33
Oleksii Tohoiev, <b>WIRELESS SECURITY ISSUES</b>	34
<i>Health &amp; Medical Science</i>	36
I.M. Nigmatova, R.N.Nigmatov, F.K.Inogomova, <b>PREVALENCE OF DENTAL SYSTEM ANOMALIES AND SPEECH DISORDERS IN CHILDREN BITE OF TASHKENT CITY</b>	37
Zaderey Anastasia Aleksandrovna, Larisa Vasylivna Melnychuk, <b>THE INCIDENCE OF MEASLES IN THE WESTERN REGION OF UKRAINE: THE IMPORTANCE OF VACCINATION</b>	39
Antsupova Vita Viacheslavivna, Ostapchuk Valentina Grigorivna, Maruschak Aliona Vasylivna, <b>CURRENT OPPORTUNITIES OF MEDICO-GENETIC CONSULTATION OF PATIENTS WITH DYSPLASIA OF THE CONNECTIVE TISSUE</b>	40
Zoryna Boiarska, <b>BIOLOGICAL AGE AND RATE OF AGING OF WOMEN IN THE DONETSK REGION (UKRAINE)</b>	41
Lazyrenko V.V., Gradil O.G., Liashchenko O.A., Ovcharenko O.B., Kalinovskaya O.I. <b>OCCUPATION AS THE PREDICTING FACTOR OF A PREMATURE OVARIAN FAILURE</b>	42
Symonyan Vazgen, Serhienko Oleksandr, Blyndaruk Svetlana, Lagoda Viktoriia, Fedchenko Myroslava <b>HOMOCYSTEINE AS A PROGNOSIS MARKER FOR ASYMPTOMATIC STROKES</b>	43
Irina Kabachna, Elina Suprun, Volodymyr Kabachnyy, <b>EXPERIMENTAL STUDY OF ANALEPTIC AND ANTIGIPOXIC ACTIVITIES OF HETEROSIDES - (DERIVATIVES FOR SULFUR AND NITROGEN CONTAINING HETEROCYCLES)</b>	44
Druc Alina, Spinu Constantin, Capmari Dumitru, Spinu Igor, Donos Ala, <b>EPIDEMIOLOGICAL PARTICULARITIES OF ACUTE RESPIRATORY INFECTIONS DURING THE 2017/2018 SEASON IN THE REPUBLIC OF MOLDOVA</b>	45
Podorozhna Maiia, Gladukh Ievgenii, Stepanenko Sergiy, <b>DEVELOPMENT OF HOP CONES LIPOPHYLIC EXTRACT-BASED GEL</b>	47

F.T.Temurov, A.A.Baimbetov, <b>THE CHOICE OF THE TREATMENT METHOD OF PATIENTS WITH THE MAXILLARY SINUS PERFORATION</b>	48
Sinaiko Irina, Kryshtal Veronika, <b>VOICE DISORDERS AND THEIR EFFECT ON QUALITY OF LIFE IN VOCAL SPEECH PROFESSIONS PERSONS WITH CHRONIC PHARYNGITIS</b>	49
Аязбеков Ардак Керимханович, <b>АНАЛИЗ ПРИЧИН ЯВИВШИМИСЯ ПОКАЗАНИЕМ ДЛЯ ГОСПИТАЛИЗАЦИИ БЕРЕМЕННЫХ НА III УРОВЕНЬ ПЕРИНАТАЛЬНОЙ ПОМОЩИ</b>	51
Ziyaeva Shahida Tulaevna, Mirzaahmedova Kamola Tohirovna, Karimova Gulchexra Almardanovna <b>HEPATOPROTECTIVE PROPERTIES OF PHYTIN AND IMMUNOMODULIN COMPOUNDS</b>	52
Қазбергенова Р.А., Файзолла Г.Қ. <b>ДАМУЫНДА АУЫТҚУШЫЛЫҒЫ БАР БАЛАЛАРҒА ТҮЗЕТУ ЖҰМЫСТАРЫН ЖҮРГІЗУ</b>	54
Kondratiuk Nataliia Vyacheslavivna, Kondratiuk Roman Viktorovich <b>THE ROLE OF MANUAL AND DIET THERAPY IN COMPLEX TREATMENT OF STRESS, DEPRESSION AND THEIR EFFECTS</b>	56
Мазуренко О.П., Лоскутов О.А., Надзякевич П., Згржебловская Л.В., Дмитриев Д.В. <b>ОЦІНКА СТАНУ СИСТЕМИ ЗГОРТАННЯ КРОВІ ТА ПЕРСОНАЛІЗАЦІЯ ЇЇ ЛІКУВАННЯ У ПАЦІЄНТІВ В РАНЬОМУ ПІСЛЯОПЕРАЦІЙНОМУ ПЕРІОДІ ПІСЛЯ ІМПЛАНТАЦІЇ LVAD</b>	58
Khasanov Khabibullo, Alikhodjayeva Gulnara, Okhunjonov Ulmas <b>CLINICAL PRESENTATION AND BRAINSTEM AUDITORY EVOKED POTENTIAL AND MRI FINDINGS IN CHIARI MALFORMATION I AS DIRECT INDICATION FOR SURGICAL TREATMENT</b>	59
Mamatkulov I.B., Babadzhanov A.S., <b>EFFICIENCY OF THE OPTIMIZATION PROCESS IN THE SERVICE CHILDREN'S ANESTHESIOLOGY AND REANIMATOLOGY</b>	60
Воитова Гавхар Алишеровна, <b>СРАВНИТЕЛЬНЫЙ АНАЛИЗ КЛИНИЧЕСКОГО ТЕЧЕНИЯ ТОШНОТЫ И РВОТЫ ИНДУЦИРОВАННОЙ БЕРЕМЕННОСТИ</b>	61
O.V. Buchneva, Y.V. Shafer, Y.V. Pisklova, A. S. Krylova <b>CLINICAL VARIATIONS OF ABDOMINAL AORTIC ANEURYSM</b>	62
<i>Humanities, Literature &amp; Arts</i>	64
GUNEL MAMMADOVA, <b>ABOUT LEXICAL-SEMANTIC GROUPS OF SUBSTANTIVIZED ADJECTIVES IN THE HISTORY OF LANGUAGE</b>	65
Yevhen Churikov, <b>HISTORICAL ASPECTS OF FRENCH HORN TRANSFORMATION</b>	67
Shirinov Sarvar Ali, <b>SOME FEATURES OF A "LOG" COMPONENT WORDS</b>	68
Mitina Olena, Kudelina Olga, <b>ALTERNATIVENESS AND SYNONYMY INTERACTION IN ENGLISH</b>	69

Oleh Ohirko, <b>ZUSAMMENARBEIT VON KIRCHE UND STAAT IN UMSETZUNG CHRISTLICHE ETHIK IN UKRAINE BILDUNGSPERSONAL</b>	70
Guliyeva Samira Hasan, <b>SAMED MANSUR'S FELETONS IN THE "SHEYPUR" JOURNAL</b>	71
Syvokin Hanna, Kartel Tetiana, <b>FUNCTIONAL PECULIARITIES IN SCIENTIFIC TEXT</b>	72
Chystiakova Daria, <b>STRING QUARTET: FROM CONCEPT TO PHENOMENON</b>	73
<i>Life Sciences &amp; Earth Sciences</i>	75
Abdurazakova N.M., Faizullaeva T.P., <b>FOOD SAFETY IN THE REPUBLIC OF UZBEKISTAN</b>	76
Anar Natig Ogly Agayev, <b>MAKING THE TRANSITION TO RATIONAL CONSUMPTION AND PRODUCTION PATTERNS</b>	77
Safarova I.M., Narimanova V.S., Aliyeva S.I., <b>ABOUT THE PESTS OF JUGLANS REGIA IN SOME REGIONS OF THE SOUTH-EAST REGION OF THE GREATER CAUCASUS</b>	78
Bejanidze Irina, Kharebava Tina, Davitadze Nazi, Kekutia Lana, <b>JUICE PRODUCTION WASTE- EXCELLENT RAW MATERIALS FOR OBTAINING A HIGH-QUALITY PLANT SORBENT FOR METALS EXTRACTION</b>	79
Andgela A. Bylgaeva, <b>STUDY OF MOLD FUNGI IN VEGETABLE FEEDS OF YAKUTIA</b>	81
Bejanidze Irina, Kharebava Tina, Kekutia Lana, <b>THE REAGENT-FREE, ECO-PURE TECHNOLOGY FOR PURIFICATION OF NATURAL WATERS FROM HEAVY METALS</b>	82
Ustinova Iryna Igorivna, <b>ECO-PHYSICAL BASIS OF SUSTAINABLE DEVELOPMENT POLICY</b>	83
Z.P. Hasanova, <b>THE IMPACT OF SOIL PH ON THE PROCESS OF THEIR SELF-CLEANING WHEN CONTAMINATED WITH CRUDE OIL</b>	84
Rybalova Olga, Matsak Anton, <b>NATURAL METHODS OF SURFACE RUNOFF TREATMENT</b>	85
<i>Physics &amp; Mathematics</i>	87
Oksana Banna, <b>DISTANCE BETWEEN THE WIENER PROCESS AND INTEGRALS WITH RESPECT TO FRACTIONAL BROWNIAN MOTION</b>	88
<i>Social Sciences</i>	90
Nadezhda Ponamareva, <b>TEACHERS' ATTITUDE TOWARDS INCLUSIVE EDUCATION PRACTICES</b>	91
Kokhan Diana Nikolayevna,	

intensive process of decomposition in the soil of crude oil took place in chestnut soil with a pH of 7.2. The self-cleaning ability of soils in the event of contamination with crude oil, depending on pH, can be arranged in descending order:

Chestnut (pH 7.2) > gray-brown (pH 8.2) > yellow earth (pH 5.9)

The data obtained give grounds to predict that in case of contamination of yellow earth soils, their self-purification capacity will be extremely insufficient and prompt action will be required to accelerate the natural self-purification processes of these soils in order to prevent the degradation of their physico-chemical and biological properties and their accelerated biorehabilitation using modern methods of remediation. In acidic yellow earth soils, this factor is crucial in the decomposition of petroleum and petroleum products. Therefore, to create a pH that is optimal for their biodegradation, acidic soils can be subjected to liming.

## NATURAL METHODS OF SURFACE RUNOFF TREATMENT

Rybalova Olga,

PhD, Associate Professor,

National University of Civil Protection of Ukraine, Associate Professor of Department of Labour Protection and technogenic and ecological safety National University of Civil Protection of Ukraine, Kharkiv.

Matsak Anton,

Post graduate, Ukrainian Scientific Research Institute of Ecological Problems Ukraine, Kharkiv

The pollution of water bodies, from diffusion sources, is the crucial element in decreasing quality of water ecosystems. A surface runoff, from urbanized and agricultural areas, is a major issue in silting and pollution of water bodies. Solving this problem is not clear and easy because of specifics of surface runoff formation and entering the wastewater (storm or melt) to water bodies, and because formation of such kind of water has a huge difference from a municipal or production waste water.

The relevant issue for today is to develop methods of minimizing effects from surface runoff on water bodies and take into account factors of formation condition and climate change.

For today, natural methods of surface runoff treatment, with landscape and geographical conditions of water basin area considerations, are spreading around the world.

Short filtration dams, filled with crushed stone with moderate vegetation on a surface, are used for interception of pollution from surface runoff. The surface of filtration dam, with rubble and drainage for stormwater drain, is covered by vegetation. Several continuous dams are used for a most contaminated part of a surface runoff, each of them has their own purpose and it is increase the efficiency of stormwater treatment.

The use of "rain gardens" or bioswales (mulds) is one of the new approaches which solve the problem of surface runoff treatment. These constructions are small, compact, artificial depressions with various shapes and sizes, and similar to landscape design elements and therefore not very highlighted in the urbanized area. The method of surface water

treatment, that we offer, has modified elements from "rain gardens" and aims to localize, detain and treat a surface runoff.

These constructions are located around the reservoir on the way of the surface runoff flow, then intercepts and treats due to natural biochemical processes in dams and bioswales itself, or transferred to the underground flow, where natural processes of groundwater treatment of contaminated waters also present. Using natural processes of soil filtration is a major point in these structures. Main advantages of these methods are small sizes (the possibility of designing and installing in to already built-up areas) and as a treatment system - the localization and reduction of the surface runoff flow (due to filtration) into the sewer drainage or water body.

The use of filtering nozzles from basalt crumb, limestone, wood sawdust and polyurethane granules, as additional elements of rainwater treatment, will improve the treatment process and the filtration rate in bioswales (mulds). Experimental tests have shown that the use of granules of polyurethane as a nozzle in stormwater treatment columns increase the treatment efficiency from suspended solids by 98%, COD by 83.5%, oils by 96%, and total dissolved solids (TDS) by 8.3%. A common sawdust use also shown significant results in treatment from organic compounds - 86% and oils - almost 99%.

Improvement of surface runoff treatment methods is an urgent issue, and it is aimed to reduce the negative impact of the environment and especially on water bodies.