



Latvia University
of Life Sciences
and Technologies

13th International Scientific Conference
STUDENTS ON THEIR WAY TO SCIENCE
(undergraduate, graduate, post-graduate students)
Collection of Abstracts
April 20, 2018

РЕПОЗИТОРИЙ ВАРГУ

Jelgava
2018

ISSN 2255-9566

STUDENTS ON THEIR WAY TO SCIENCE

(undergraduate, graduate, post-graduate students)

Collection of abstracts from the 13th International Scientific Conference. – Jelgava, 2018. –177 p.

CONFERENCE COMMITTEE

Chairperson

Voldemars Bariss, Associate Professor, Dr.Phil., Latvia University of Life Sciences and Technologies (Latvia)

Members

Olga Vetrova, Professor, Ph.D., Deputy Dean for Research, Sankt Petersburg Polytechnical University (Russia)
Rozalija Radlinskaite, Head of the International Office, Alytaus Kolegija University of Applied Sciences (Lithuania)
Jiri Masek, Ing., Ph.D., Vice-dean, Czech University of Life Sciences in Prague (Czech Republic)
Nadezda Stojkovic, Assistant Professor, Dr.paed., University of Niš (Serbia)
Zigrīda Vincēla, Assistant Professor, Dr.philol., University of Latvia (Latvia)
Arnis Mugurevics, Professor, Dr.med.vet., Latvia University of Life Sciences and Technologies (Latvia)
Daina Grasmane, Assistant Professor, Dr.paed., Latvia University of Life Sciences and Technologies (Latvia)
Larisa Malinovska, Professor Emeritus, Dr.paed. (Latvia)

STEERING COMMITTEE

Chairperson

Inese Ozola, Assistant Professor, Dr.philol., *Head of Language Centre*

Members

Aina Dobeļe, Dr. oec., Professor, Faculty of Economics and Social Development
Sandra Gusta, Dr. oec., Associate Professor, Faculty of Environment and Civil Engineering
Laima Liepa, Dr.oec., Associate Professor, Faculty of Veterinary Medicine
Līga Zvirgzdiņa, Dr.oec., Deputy Dean, Faculty of Information Technologies
Vita Cintiņa, Mg.sc.ing., Lecturer, Faculty of Environment and Civil Engineering
Gita Krūmiņa-Zemture, Mg.cib.hyg., Deputy Dean, Faculty of Food Technology
Irina Sivicka, Mg.agr., Lecturer, Faculty of Agriculture
Janis Kjakste, Mg.sc.ing., Faculty of Engineering
Solveiga Luguza, Mg.silv., Lecturer, Forest Faculty
Olga Čivžele, Mg.paed., Lecturer, Language Centre

Editorial board:

Inese Ozola, Dr.philol., Assistant Professor
Daina Grasmane, Dr.paed., Assistant Professor
Dace Skrupska, Mg.paed., Lecturer
Diana Svika, Mg.paed., Lecturer
Irina Orlova, Mg.paed., Lecturer
Joseph Horgan, Mg.paed., Lecturer

Technical editors:

Kalvis Kažoks

The conference is aimed at dissemination of scientific research results, sharing of experience, improvement of foreign language and cross-cultural communication skills, and establishing of international contacts.

Contents

AGRICULTURE	10
Bule J., Gaile Z., SPRING OIL-SEED RAPE YIELD AND QUALITY FORMATION IN LATGALE	11
Čakāns E., Alsiņa I., TEMPERATURE IMPACT ON BEANS (<i>Vicia faba</i>) SYMBIOSIS EFFECTIVENESS	12
Daumanis A., Vircava I., PHOSPHORUS ACCUMULATION IN SOILS UNDER DIFFERENT TILLAGE SYSTEMS	13
Halzovs J., Alsiņa I., MELON AND WATERMELON MALE BLOSSOM BIOCHEMICAL COMPOSITION	14
Heimanis O., Karklins A., METHODS OF SOIL CHEMICAL MODIFICATION FOR HIGHBUSH BLUEBERRY PLANTATIONS	15
Kaņeps J., Bankina B., DEVELOPMENT OF WHEAT STEM BASE DISEASES DEPENDING ON CROPPING SYSTEMS	16
Kübra H., Aksoy E., SALEP ORCHIDS IN TURKEY	17
Malceniece E. I., Legzdiņa I., Lepsis R., Alsiņa I., EFFECT OF COMMERCIAL HUMIC PREPARATIONS ON THE YIELD FORMATION OF SPINACH	18
Mamedova S., Sivicka I., MORINGA (<i>MORINGA OLEIFERA</i> LAM.): FAST, FEASIBLE AND MAGICAL BIO-FORTIFICATION METHOD	19
Mazure M., Karklins A., DETERMINATION AND USE OF SOIL TOTAL NITROGEN IN FERTILISATION PLANNING	20
Meldere D., Jonkus D., GROWTH PARAMETERS ANALYSIS OF CHAROLAIS CALVES DEPENDING ON AGE OF DAM	21
Otashova A., Sivicka I., MEDICINAL PROPERTIES OF SOME <i>ARTEMISIA</i> SPECIES FROM KAZAKHSTAN	22
Pakalns A., Gaile Z., YIELD AND QUALITY CHANGES OF FIELD BEAN (<i>VICIA FABA</i>) VARIETIES AFFECTED BY TREATMENT WITH NITROGEN FIXING BACTERIA	23
Peksa K., Bankina B., DEVELOPMENT OF WHEAT LEAF DISEASES DEPENDING ON FERTILIZATION AND SOIL TILLAGE IN CONTINUOUS WHEAT SOWINGS	24
Stanka T., Bankina B., FACTORS CONTRIBUTING TO DEVELOPMENT OF TAN SPOT AND SEPTORIA LEAF BLOTCH	25
Stepins U., Karklins A., SOIL FERTILITY TESTING FOR FERTILIZER RECOMMENDATIONS	26
Žentīna N., Degola L., LUPIN SEEDS FOR PIG FATTENING	27
VETERINARY MEDICINE	28
Aļbovs M., Ilgaža A., CONCEPTS AND CLINICAL APPLICATIONS FOR THERAPEUTIC PLASMA EXCHANGE AND PLASMAPHERESIS IN VETERINARY MEDICINE	29
Astra A., Ilgaža A., MARE PREGNANCY DETERMINATION WITH ATRAUMATIC METHODS	30
Baļuka Z., Valdovska A., MICROBIOLOGICAL CONTAMINATION OF DRINKING WATER FROM WELLS AND BOREHOLE IN VILLAGES	31
Bergmane M. B., Kovaļčuka L., EPIDEMIOLOGY OF OCULAR DISORDERS PRESUMED TO BE INHERITED IN EXAMINED PUREBRED DOGS IN LATVIA	32

Maraka E., Balins A., Valdovska A., MASTITIS HP3 PCR KIT SENSITIVITY.....	33
Niemi A., Medne R., PRINCIPLES OF WELFARE ASSESSMENT OF FARMED SALMONIDS IN LATVIA.....	34
Ringa-Karahona G., Grasbergs A., Šematoviča I., PROTOCOLS FOR SUCCESSFUL MULTIPLE OVULATION AND EMBRYO TRANSFER IN GENOFOND COW IN LATVIA	35
FOOD SCIENCE	36
Baumane L., Ciproviča I., LYSOZYME ACTIVITY IN RIPENED CHEESE	37
Bazhenova T., Bazhenova I., USE OF MILLET FLOUR TO PREPARE BISCUIT DOUGH.....	38
Huseynli L., Ratiya J., Kırse A., Galoburda R., EFFECT OF HIGH PRESSURE PROCESSING ON THE QUALITY OF STRAWBERRY	39
Jeruševičiūtė I., Šablevičienė D., INFLUENCE OF TEMPERATURE ON CHEMICAL AND PHYSICAL PROPERTIES OF MEAT	40
Kozlova P., Efimochkina A., Bazhenova I., PERSPECTIVES OF USING OATS AND PRODUCTS OF THEIR RECYCLING FOR COOKING KISSELS	41
Maslova A., Bazhenova T., USE OF MILLET FLOUR FOR MANUFACTURING OF PRODUCTS MADE OF CHOUX PASTRY	42
Nevarževska M., Beitāne I., SCHOOL SYSTEM INFLUENCE ON FRUIT AND VEGETABLE CONSUMPTION AMONG PUPILS	43
Raimberdieva N., Akmalov A., Turhan B. N., Kārklina D., Kırse A., MICROFLORA OF PROBIOTIC DAIRY DRINKS MADE IN LATVIA	44
Ryzhkova K., Lashkova T., Bazhenova I., STUDY OF QUALITY OF KAMUT FLOUR AND VARIOUS TYPES OF DOUGH. ORGANOLEPTIC EVALUATION OF BAKED PRODUCTS USING KAMUT FLOUR.....	45
Zhaksybay S., Bairamova Z., Kırse A., MICROFLORA OF PROBIOTIC DAIRY DRINK ‘ACTIMEL’	46
ENGINEERING	47
Banis K., Berjoza D., EFFECT OF THROTTLE BODY DESIGN ON VOLUME FLOW RATE PROGRESSION IN INTERNAL COMBUSTION ENGINES	48
Baranauskas K., Rakauskienė B., Šaulys P., INFLUENCE OF ELECTROMOBILE TECHNOLOGIES ON ALYTUS TOWN.....	49
Giedraitis R., Rakauskienė B., Valaitis M., Radlinskaitė R., TECHNOLOGICAL SOLUTIONS FOR IGNITION SYSTEMS IN THE ENGINES OF THE NEWEST AUTOMOBILES	50
Kruopytė N., Rimkienė E., Sūdžiuvienė R., Gerikienė V., HANDPRINT TECHNOLOGY IN OUR LIVES: Problems and perspectives.....	51
Sakhanko S., Niaroda M., MODERN TECHNOLOGIES OF HARDENING OF MACHINE PARTS	52
Zaķis A., Šmigins R., DIETHYL ETHER/VEGETABLE OIL BLENDS FOR THE USE IN DIESEL ENGINE.....	53
INFORMATION TECHNOLOGIES	54
Augustine J., Mozga I., ADVANCED E-LEARNING SYSTEM.....	55
Berzins V., Kvisis A., DEVELOPMENT OF A HYBRID MOBILE APPLICATION	56
Brūns M., Mozga I., DEVELOPMENT OF TOOLS FOR CELLULAR DATA NETWORK SIMULATION.....	57

Dominic S. C., Mozga I., UTILISING MOBILE TECHNOLOGY FOR LEARNING VET ANATOMY	58
Gustaitis E., Komašilovs V., DEVELOPMENT OF SECURE SMART HOME IOT SYSTEM USING TELEMETRY PROTOCOL AND SINGLE BOARD COMPUTERS	59
Ikarts I., Mozga I., TRADITIONAL WEATHER FORECASTING COMPARISON AND ASSESSMENT WITH REAL WEATHER CONDITIONS	60
Jakubauskaite V., Šalkauskienė V., THE CHANGE OF GDB10LT (GEOREFERENTIAL) DATA DURING THE PERIOD OF TIME FROM 2008 TO 2016	61
Koptikov V., Ivanov V., Schegoleva A., Panycheva T., DEEP LEARNING APPLIED TO REAL-TIME TRANSCRIPTION	62
Novikov A., Gudritiene D., THE GEOGRAPHICAL INFORMATIKON (TOP50_LT) UPDATE FOR THE CITY OF SAKIAI AND SUBMISSION TO THE USER.....	63
Ozerskis D., Vītols G., QUERY PERFORMANCE TUNING USING MS SQL AND ORACLE DB SERVERS	64
Roze V., Zacepins A., DEVELOPMENT OF SMART PARKING SOLUTIONS USING DEEP LEARNING AND COMPUTER VISION	65
Shishko E., Atslega S., DEVELOPMENT OF STUDENTS REGISTRATION SYSTEM FOR THE CONSULTATION VISIT.....	66
Siliniece I., Vītols G., E-WASTE MANAGEMENT AND POLICIES IN LATVIA	67
Sliusarev A., Boichenko O., Boitsova E., EXPLORING THE POSSIBILITY OF CREATING A TRAFFIC LIGHT BASED ON MACHINE LEARNING	68
Turygina A., Panycheva T., COMPARATIVE STUDY OF ENTRY THRESHOLD IN NEWEST PROGRAMMING LANGUAGES	69
Vetra N., Kviesis A., DEVELOPMENT OF VEHICLE COUNTING SYSTEM'S PROTOTYPE	70
Vitkevičienė G., Macaitienė R., ON DISCRETE UNIVERSALITY OF THE RIEMANN ZETA-FUNCTION	71
RURAL ENGINEERING AND ENVIRONMENT.....	72
<i>Civil Engineering and Landscape.....</i>	72
Freimanis J., Gusta S., BUILDING INFORMATION MODELLING (BIM) IN LATVIA	73
Janusas D., Einikis A., Ovaltāitė V., ANALYSIS OF A+ ENERGY EFFICIENCY CLASS REQUIREMENTS FOR SPORTS BUILDINGS.....	74
Katkovskis R., Celms A., BUILDING DEFORMATION DETERMINATION WITH TERRESTRIAL 3D LASER SCANNER	75
Pavārs M., Gusta S., LEVELNESS OF CONCRETE INDUSTRIAL GROUND FLOORS IN LATVIA.....	76
Sēlis V., Orlova I., THERMAL ENERGY MANAGEMENT	77
Spāģe A., Zigmunde D., MULTIFUNCTIONALITY OF GREEN INFRASTRUCTURE	78
Šalaševičius E., Alavočienė S., SOLARWALL	79
<i>Land Management and Geodesy</i>	80
Akmentiņš J., Celms A., LOCAL GEODETIC NETWORK DEVELOPMENT TENDENCIES IN RIGA.....	81
Beniusis B., Tiškutė-Memgaidienė D., THE ANALYSIS OF APPLICATION OF GEO-REFERENCED TECHNOLOGIES IN CADASTRAL MEASUREMENTS.....	82

Blumbaha E., Jankava A., FARM SIZE AND CHARACTERISTICS INDICATORS.....	83
Dikavičienė G., Gurskienė V., EVALUATION ON THE CHANGE OF URBANIZATION OF RURAL TERRITORIES IN ŠAKIAI DISTRICT MUNICIPALITY	84
Golcova R. V., Aleknavičius A., PERSPECTIVES OF RURAL TOURISM IN THE MIDDLE LITHUANIA REGION.....	85
Greferytė S., Paliokaitė I., Rimkus R., Garnienė B., Kuklys I., ANALYSIS OF EROSION AND ACCUMULATION PROCESS ON THE BALTIC SEA COAST FROM NOTHERN PIER UP TO DUTCH HAT.....	86
Jonušonytė I., Sūdžiuvienė R., Kuklys I., MODERNITY OF GEODETIC DEVICE DESIGNS: PROBLEM OF USE AND PERSPECTIVE ON THE CONSTRUCTION SITE.....	87
Juozapavičius G., Jonikavičius D., ACCURACY ASSESSMENT OF DIGITAL SURFACE MODEL MADE BY PHOTOGRAMETRIC METHODS	88
Jurčiukonytė G., Gurskienė V., ASPECTS OF SOUTHERN LITHUANIAN ETNOGRAPHIC VILLAGES	89
Korotkėviča V., Jankava A., PREVALENCE OF INVASIVE SPECIES SOSNOWSKI HAWTHORN IN JELGAVA DISTRICT	90
Listauskas R., Valčiukienė J., ANALYSIS OF URBAN DEVELOPMENT IN SUBURBAN AREAS OF KAUNAS CITY.....	91
Luksa J., Celms A., REMOTE SENSING OPPORTUNITIES' EVALUATION FOR SCANNING PROCESS IN THE CASTLE ISLAND IN JELGAVA	92
Mockutė L., Pašakarnis G., STRATEGIC STATE PROJECTS AND LAND CONSOLIDATION: CASE OF RAIL BALTICA PROJECT.....	93
Narūnas D., Jonikavičius D., ACCURACY ASSESSMENT OF 3D MODELS USING CLOSE-RANGE PHOTOGRAMMETRY METHODS	94
Naturjeva I., Jonikavičius D., ACCURACY OF FRAME TYPE HYPERSPECTRAL IMAGE AEROTRIANGULATION.....	95
Plukienė G., Gurskienė V., DISAPPEARING AND ALREADY GONE VILLAGES OF JONAVA DISTRICT.....	96
Rasakevičiūtė E., Pašakarnis G., ANALYSIS OF THE EXPECTATIONS AND THE RESULTS OF THE PARTICIPANTS OF THE LAND CONSOLIDATION PROJECT OF TAUJĖNAI AND VIŠKONIAI CADASTRAL AREAS	97
Riekstiņš R., Celms A., MEASURING GEODETIC NETWORK POINTS USING GNSS TECHNOLOGIES, MULTIPLE BASE STATION SYSTEMS	98
Rimkus R., Šiuškaitė A., Norkus D., Kukliene L., Jankauskiene D., GEODETIC RESEARCH IN DOVILAI MOUND TERRITORY	99
Rudenko I., Jonikavičius D., ASSESSING THE GEOMETRIC ACCURACY OF SMALL-FORMAT AERIAL PHOTOGRAPHS BASED ON ORTHOPHOTOS IN URBAN TERRITORIES.....	100
Vaitkutė G., Valčiukienė J., ANALYSIS OF ABANDONED BUILDINGS IN PLUNGĖ DISTRICT MUNICIPALITY	101
Vaitonytė A., Pašakarnis G., USE OF ULTRALIGHT AIRCRAFTS FOR CREATING PHOTOPLANS IN LAND-USE PLANNING	102
Vasilauskaitė D., Valčiukienė J., ANALYSIS OF URBAN DEVELOPMENT IN THE CITY OF MARIJAMPOLĖ	103
Vekrikas O., Aleknavičius A., FACTORS AND PROBLEMS INFLUENCING SOLUTIONS OF LAND CONSOLIDATION PROJECTS.....	104

Water Management.....	105
Atelbauers J., Grīnfelde I., ESTIMATION OF AMMONIA SOIL FLUX MEASUREMENT TIME USING PICARRO G2508	106
Azarm S. A. S., Dogan S., THE POTENTIAL OF RECLAIMED WATER FOR SEAWATER INTRUSION CONTROL IN COASTAL AQUIFERS OF TURKEY	107
Eiduks O., Grīnfelde I., Frolova O., THE IMPACT OF ROAD SALT ON GROUND WATER QUALITY	108
Eihe P., Grīnfelde I., Bērziņa L., Pilecka J., Frolova O., INTEGRATED NITROGEN MANAGEMENT IN LATVIA'S AGRICULTURAL SECTOR IN THE FRAMEWORK OF CLIMATE AND ENVIRONMENTAL POLICIES	109
Frizen V., Zuyeu U., MODERN STATUS OF RIVERS OF IVATSEVICHY REGION (BELARUS)	110
Frolova O., Grīnfelde I., AMMONIA EMISSION MEASUREMENTS USING CAVITY RING-DOWN SPECTROSCOPY	111
Himat A., Dogan S., ROOFTOP RAINWATER HARVESTING POTENTIAL IN TURKEY	112
Himat A., Dogan S., KAREZ: ANCIENT IRRIGATION AND WATER SUPPLY INFRASTRUCTURE IN AFGHANISTAN.....	113
Hvazdeu M., Zuyeu U., ECOLOGICAL SAFETY OF SPRINGWATER.....	114
Kalniņa L., Frolova O., Valujeva K., Grīnfelde I., MOISTURE EFFECT ON CO₂, CH₄, NH₃ AND N₂O EMISSIONS FROM SOILS IN LATVIA	115
Kalniņa R., Grīnfelde I., CHAMBER CONSTRUCTION OF PICARRO G2508 EFFECT ON MEASUREMENTS ACCURACY.....	116
Knavins K., Grīnfelde I., MINED PEATLAND RESTORATION ALTERNATIVES IN CLIMATE POLITICS CONTEXT	117
Krauze K., Lagzdīņš A., FLOOD RISK MODELLING FOR THE CATCHMENT AREA OF THE RIVER BERZE	118
Kulik D., Zubova O., RESEARCH IN UTILIZATION OF ASH RECEIVED FROM PROCESS OF BURNING SLUDGE OF WASTEWATER IN SUE "VODOKANAL SPB"	119
Leveika R., Grinberga L., STORMWATER IMPACT ON WASTEWATER AMOUNT IN JELGAVA WASTEWATER TREATMENT PLANT (WTP).	121
Ozoliņa A., Grīnfelde I., INFLUENCE OF DECENTRALIZED SEWAGE SYSTEM ON INDIVIDUAL WELL DRINKING WATER CHEMICAL AND MICROBIOLOGICAL QUALITY	122
Pilecka J., Grīnfelde I., DISTRIBUTION OF SHORT-TERM POLLUTION OF CHEMICAL ELEMENTS IN JELGAVA CITY	123
Salmiņa L., Veinbergs A., THE MODELLING OF SEDIMENTATION PONDS EFFICIENCY FOR THE BERZE RIVER BASIN	124
Siliņa E. A., Grīnfelde I., DEVELOPMENT OF NITROGEN BALANCE FOR THE LATVIAN AGRICULTURAL SECTOR	125
Smiukse S., Sudars R., ANALYSIS OF MORFOLOGICAL COMPOSITION OF MUNICIPAL WASTE IN REGION OF LIEPAJA.....	126
Turko V., Zuyeu U., CHANGE OF SOURCES OF THE RIVERS AS ENVIRONMENTAL PROBLEM.....	127

Zalitis K., Grīnfelde I., Pilecka J., AIR POLLUTION WITH HEAVY METALS: CASE STUDY IN JELGAVA.....	128
FORESTRY AND WOOD PROCESSING.....	129
Agafonova D., Miezīte O., Dubrovskis E., COMMERCIAL THINNING IN LATVIA	130
Augusts M., Luguza S., Lazdiņa D., ANALYSIS OF PRODUCTIVITY OF FOREST PLANTING MACHINES AND ASSESSMENT OF APPLICATION OPTIONS	131
Bauere E., Miezīte O., THE IMPACT OF VARIOUS FACTORS ON SCOTS PINE (PINUS SYLVESTRIS L.) YOUNG STANDS	132
Berga I., Miezīte O., Grīnfelde I., HIGH SOIL MOISTURE EFFECT ON THE SANITARY CONDITION OF THE FOREST STAND	133
Butkus L., Miezīte O., Dubrovskis E., DISEASE <i>PHYTOPHTHORA ALNI</i> DISTRIBUTION IN BLACK ALDER AND GREY ALDER FOREST STANDS	134
Deaks O., Dubrovskis E., MEASUREMENT PRECISION OF FOREST STAND CHARACTERISTICS AND THE TIME REQUIRED FOR MEASUREMENTS	135
Douls P., Estève A., Luguza S., THE USE OF CHESTNUTS IN FRANCE: HISTORICAL FACTS, PROPERTIES AND OPPORTUNITIES.....	136
Galiņa S., Indriksons A., TREE STAND VOLUME IN PLACES WITH DIFFERENT MAGNETIC FIELDS IN THE OGRE REGION, FORESTS OF <i>HYLOCOMIOSA</i> FOREST SITE TYPE.....	137
Gersebeka S., Indriksons A., LOGGING IMPACT ON BIRDS NESTING IN THE FOREST	138
Graudums M., Indriksons A., WOOD BIOMASS IN UNDERGROWTH AND UNDERSTOREY IN DRAINED FORESTS OF <i>MYRTILLOSA MEL.</i> FOREST SITE TYPE	139
Gutaravičiūtė A., Tiškutė-Memgaudienė D., CHANGES OF FOREST LAND AREAS IN CITIES OF LITHUANIA DURING 1950-2011.....	140
Jankūnaitė M., Tiškutė-Memgaudienė D., CHANGES OF FOREST LAND AREAS IN DIFERENT LITHUANIAN COUNTIES: WITH LARGE AND SMALL FORESTED TERRITORIES	141
Kalvis T., Luguza S., Okmanis M., DISTANCE OF INFLUENCE OF ASH FERTILIZERS ON NORWAY SPRUCE ANNUAL INCREMENT	142
Kance E., Indriksons A., IMPACT OF DOLOMITE QUARRY ON THE GROWTH OF SCOTS PINE TREE STAND IN THE NATURE RESERVE "LIELIE KANGARI"	143
Kanishchev M., Gromskaya L., ECOLOGICAL PROBLEMS OF LOGGING RESIDUES AND THEIR SOLUTION.....	144
Krodziniece S., Miezīte O., Indriksons A., THE IMPACT OF ENVIRONMENTAL FACTORS ON ENGLISH OAK (<i>QUERCUS ROBUR L.</i>) PLANTS IN TREE NURSERIES	145
Lavendels M., Luguza S., COMMON WALNUT <i>JUGLANS REGIA L.</i> PROSPECTIVE FORMS IN LATVIA.....	146
Mūrmanis M., Magaznieks J., FACTORS AFFECTING THE VOLUME OF ROUND TIMBER ..	147
Naglis N., Pētersone A., ELECTRIC GUITAR BUILDING	148
Stokmane E., Miezīte O., Dubrovskis E., <i>PICEA PHYSOKERMES</i> SCHRNK. IMPACT OF DAMAGE ON THE DIAMETER INCREMENT OF <i>PICEA ABIES (L.) H.KARST.</i> IN <i>OXALIDOSA TURF. MEL.</i>.....	149
Tirmanis R., Straupe I., THE ASSESSMENT OF OUTCOME OF OLD SCOTS PINE FOREST STANDS IN MEŽAPARKS, RIGA.....	150

Zālīte A. A., Straupe I., GROWTH OF LABRADOR-TEA <i>LEDUM PALUSTRE</i> L. AFTER MANAGEMENT OF HERB LAYER AT CAPERCAILLIE <i>TETRAO UROGALLUS</i> L. MATING PLACE.....	151
SOCIAL SCIENCES	152
Joneliūkšytė B., Macaitienė R., STATISTICAL METHODS IN RESEARCH ON LITHUANIAN INHABITANTS' ATTITUDES TOWARDS BANK LOANS.....	153
Kalapati K., Dincă M., SOCIO-ECONOMIC RESOURCE MAP OF THE MIGRATION OF ASYLUM SEEKERS AND REFUGEES IN ROMANIA	154
Kalnina A., Dobele A., ALPACA BREEDING IN LATVIA	155
Navichuk D., Zuyeu U., STRATEGIES OF DEVELOPMENT OF THE CROSS-BORDER ASSOCIATION “EUROREGION ‘BUG’”	156
Opołska I., Proškina L., CHARACTERISTICS OF THE SPORTS FACILITIES IN LATVIA	157
Patil H. K., Licite L., ANALYSIS AND DEVELOPMENT OF OPPORTUNITIES FOR THE SUGAR INDUSTRY OF INDIA	158
Perkune L., Licite L., EXPECTATIONS OF GENERATION Y IN THE LABOUR MARKET	159
Prokofjeva E., Kruzmetra Z., STUDENTS’ OPINION ABOUT INVOLVEMENT IN ERASMUS+ PROGRAMME.....	160
Putniņa D., Paula L., CHOICE OF ELECTRICITY PROVIDER FROM THE POINT OF VIEW OF THE USERS: THE ELEKTRUM EXAMPLE.....	161
Ratkēviča M., Kronberga G., APPROACHES OF ORGANIZATIONAL RESEARCH IN THE CASE OF COMPANY X	162
Sebina A., Licite L., AVAILABILITY OF WORKFORCE IN THE MECHANICAL ENGINEERING AND METALWORKING INDUSTRY.....	163
Thapa I., Kruzmetra Z., NEWCOMERS: AGENTS OF CHANGE IN RURAL AREAS OF LATVIA	164
Thuy T. T. T., Yen T. T. H., Tereshchenko S., DEVELOPMENT OF APPROACHES IN BUSINESS PROCESSES MANAGEMENT	165
Vangalis U., Jankova L., PERSONNEL MANAGEMENT IN NATIONAL AUTHORITY.....	167
Vilne M., Muška A., Zvirgzdina S., CHANGES IN THE AREA OF FOREST LAND IN THE TERRITORY OF LATVIA	168
Yen T. T. H., Thuy T. T. T., Tereshchenko S., MODERN APPROACHES TO THE DEFINITION OF SUSTAINABLE ENTERPRISE DEVELOPMENT	170
Ziedina D., Pelse M., APPROACHES TO IMPACT EVALUATION OF SPECIAL ECONOMIC ZONES.....	173
PEDAGOGY	152
Pušinska B., Briede B., LANGUAGE TEACHING SKILLS FOR SELF-DIRECTED LEARNING.....	175
Vindedze Z., Vronska N., PROMOTING TEACHER’S ECOLOGICAL COMPETENCE IN EDUCATIONAL ENVIRONMENT.....	176

STRATEGIES OF DEVELOPMENT OF THE CROSS-BORDER ASSOCIATION “EUROREGION ‘BUG’”

Dzmitry Navichuk

Baranovichy State University, Faculty of pedagogy and psihology, undergraduate student, Belarus

Uladzimir Zuyeu

Baranovichy State University, PhD candidate, Belarus

Border areas, thanks to their special role in developments, are an important subject of interest for the regional policy pursued at the level of the European Union and certain countries and regions.

Now the Euroregion “Bug” act as members of Cross-border association: Lublin voivodeship (Republic of Poland), Brest region (Republic of Belarus) and Volyn region (Ukraine). The Euroregion also includes two districts of the Lviv region adjacent to borders of Poland [1].

The main objective of activity of Euroregion “Bug” is cooperation of border territories in the area: regional planning; communications, transport and communication; education, health care, culture, sport and tourism; environmental protection; response to emergency situations and natural disasters; assistance expansion of contacts between inhabitants of border territories and also development of cooperation between institutions and subjects of economic activity.

To define the purposes and the direction of development of border cooperation in November, 2013, the strategic document of the Euroregion, “The strategy of border cooperation for 2014-2020,” has been accepted [2]. In four areas, the following purposes and the directions of strategic actions have been formulated: economic cooperation; environment, culture and tourism; communication and boundary infrastructure; science and higher education.

The common goal is to increase social and economic competitiveness of the cross-border area in the European, national, regional and local aspects due to effective use of endogenous potentials and mitigation of the restrictions connected with functioning of external border of the European Union has been formulated.

The level of development of the cross-border region regarding strengths, weaknesses, opportunities and threats has been estimated.

Having analysed strategy, it is possible to draw the conclusion that realization of strategy will provide sustainable development of the region, will improve his tourist appeal.

Cross-border initiatives play an important role for development of good neighbourly relations between residents of border areas and to help expand mutual understanding.

References

1. Трансграничное объединение «Еврорегион «Буг» // TRIC [Электронный ресурс]. – 2018. – Режим доступа: <http://www.tric.info/topic.php?tid=18>. – Дата доступа: 01.03.2018
2. European Neighbourhood and Partnership Instrument 2007–2013 Cross–Border Cooperation Programme Latvia–Lithuania–Belarus (2010–04–29; 110 Applications Received During the 1st Call for Proposals (News)) – Режим доступа: <http://www.enpi-cbc.eu/>