

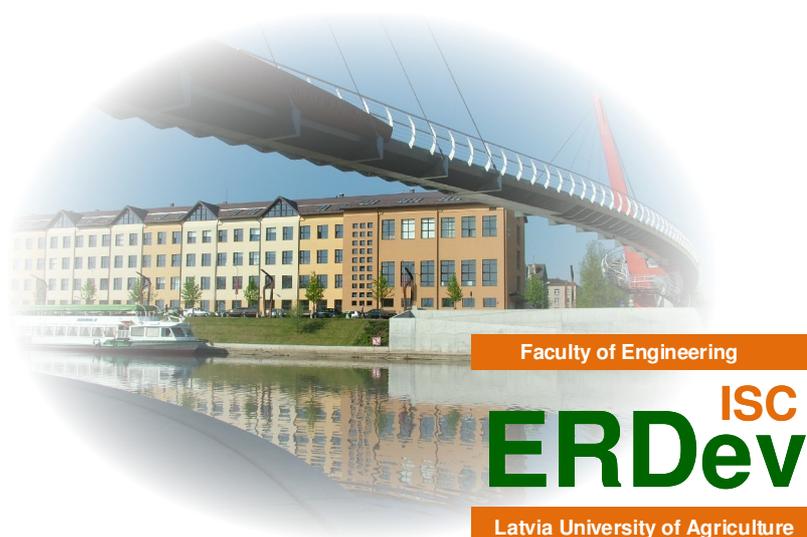
Latvia University of Agriculture
Faculty of Engineering
Latvian Academy of Agricultural and Forestry Sciences



16th International Scientific Conference

ENGINEERING FOR RURAL DEVELOPMENT

PROGRAMME



Jelgava, Latvia, May 24 – 26, 2017

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Wednesday, 24 May

16⁰⁰ – 18⁰⁰ Registration, welcome party, coffee and snacks,
Faculty of Engineering, LUA, 5 J. Cakstes blvd., 2nd floor, Room 254

Thursday, 25 May

9⁰⁰ – 10⁰⁰ Registration of participants,
Faculty of Engineering, LUA, 5 J. Cakstes blvd., 2nd floor, Room 254

10⁰⁰ – 12¹⁰ Opening of the conference and plenary session
Faculty of Engineering, LUA, 5 J. Cakstes blvd., 4th floor, Room 429

Chairman: Dr.sc.ing. Aivars Aboltins, Latvia University of Agriculture

Vice-chairman: Dr. sc.ing. Janis Palabinskis, Latvia University of Agriculture

10⁰⁰ – 10⁰³	WELCOME SPEECH, SOME FACTS ABOUT CONFERENCE Aivars Aboltins <i>Program committee chairman</i>
10⁰³ – 10¹⁰	OPENING WELCOME Aigars Laizans <i>Vice Rector, Latvia University of Agriculture</i>
10¹⁰ – 10¹⁵	LUA HONORARY DOCTORAL DIPLOMA CEREMONY Volodymyr Bulgakov <i>Dr.habil.sc.ing., professor, National University of Life and Environmental Sciences of Ukraine; academician, National Academy of Agrarian Sciences of Ukraine</i>
10¹⁵ – 10⁴⁵	METHOD OF DEVELOPING MATHEMATICAL MODELS FOR THE FUNCTIONING OF AGRICULTURAL MACHINES AND AGGREGATES Volodymyr Bulgakov <i>National University of Life and Environmental Sciences of Ukraine, Ukraine</i>
10⁴⁵ – 11¹⁵	THE IMPACT OF MULTIFUNCTIONAL BIODIESEL FUEL ADDITIVE ON DIESEL ENGINE COMBUSTION PROCESS Risto Ilves <i>Estonian University of Life Sciences, Estonia</i>
11¹⁵ – 11⁴⁵	IMPROVEMENT OF MOBILE MILKING PARLOURS IN SMALL DAIRY FARMS INCLUDING TECHNICAL AND FUNCTIONAL ASPECTS Marek Gaworski <i>Warsaw University of Life Sciences, Poland</i>
11⁴⁵ – 12¹⁵	MILLENNIAL STUDENT EXPECTATIONS TOWARDS HIGHER EDUCATION IN LATVIA Lasma Licite <i>Latvia University of Agriculture, Latvia</i>

12²⁰ – 13³⁰ Photo, Lunch

13³⁰ – 15³⁰ Work in sections

15³⁰ – 16⁰⁰ Coffee break

16⁰⁰ – 18³⁰ Work in sections

Regulations: *Presentations – 10 minutes*

Discussions – 5 minutes

19⁰⁰ Conference dinner
5 J. Cakstes blvd., Room 254

Friday, 26 May

9⁰⁰ – 17⁰⁰

Excursion from Faculty of Engineering

Conference languages – English, Russian, Latvian

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5 J.Cakstes blvd., Room 403

Chairman: Dr.sc.ing. **Jiri Masek**, *Czech University of Life Sciences Prague, Czech Republic*

Vice-chairman: Dr.sc.ing. **Semjons Ivanovs**, *Latvia University of Agriculture, Latvia*

- 1 THEORETICAL INVESTIGATION OF AGGREGATION OF TOP REMOVAL MACHINE FRONTALLY MOUNTED ON WHEELED TRACTOR
Volodimir Bulgakov, Valeriy Adamchuk, Semjons Ivanovs, Yevhen Ihnatiev
National University of Life and Environmental Sciences of Ukraine, Ukraine; National Scientific Centre "Institute for Agricultural Engineering and Electrification" of Ukraine, Ukraine; Latvia University of Agriculture, Latvia; Tavria State Agrotechnological University, Ukraine
- 2 RESEARCH OF POSSIBILITIES FOR EFFICIENT USE OF WIDE SPAN TRACTOR (VEHICLE) FOR CONTROLLED TRAFFIC FARMING
Volodimir Bulgakov, Valeriy Adamchuk, Volodymyr Kuvachov, Semjons Ivanovs
National University of Life and Environmental Sciences of Ukraine, Ukraine; National Scientific Centre "Institute for Agricultural Engineering and Electrification" of Ukraine, Ukraine; Tavria State Agrotechnological University, Ukraine; Latvia University of Agriculture, Latvia
- 3 THEORETICAL SIMULATION OF PARAMETERS OF CLEANING SUGAR BEET HEADS FROM REMNANTS OF LEAVES BY FLEXIBLE BLADE
Volodimir Bulgakov, Ivan Golovach, Semjons Ivanovs, Yevhen Ihnatiev
National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Agriculture, Latvia; Tavria State Agrotechnological University, Ukraine
- 4 NOISE POLLUTANTS IN AGRICULTURAL MACHINERY DRIVERS CABIN
Retta Zewdie, Pavel Kic
Czech University of Life Sciences Prague, Czech Republic
- 5 INVESTIGATION OF TECHNOLOGICAL PROPERTIES OF WIDE SPAN TRACTORS FOR CONTROLLED TRAFFIC FARMING
Volodimir Bulgakov, Valeriy Adamchuk, Volodymyr Kuvachov, Semjons Ivanovs
National University of Life and Environmental Sciences of Ukraine, Ukraine; National Scientific Centre "Institute for Agricultural Engineering and Electrification" of Ukraine, Ukraine; Tavria State Agrotechnological University, Ukraine; Latvia University of Agriculture, Latvia
- 6 EVALUATION OF COMBINE HARVESTER OPERATION COSTS IN DIFFERENT WORKING CONDITIONS
Jiri Masek, Petr Novak, Algirdas Jasinskas
Czech University of Life Sciences Prague, Czech Republic; Aleksandras Stulginskis University, Lithuania
- 7 SCREENING HEMP (*CANNABIS SATIVA* L.) BIOMASS AND CHEMICAL COMPOSITION AS INFLUENCED BY SEED RATE AND GENOTYPE
Zofija Jankauskiene, Elvyra Gruzdeviene, Semjons Ivanovs, Ernestas Maumevicius
Lithuanian Research Centre for Agriculture and Forestry, Lithuania; Latvia University of Agriculture, Latvia; Aleksandras Stulginskis University, Lithuania
- 8 COMPARISON OF METHODS FOR MEASURING DRAUGHT FORCE OF TRACTOR DURING SOIL TILLAGE
Milan Buric, Petr Novak, Lukas Benes
Czech University of Life Sciences Prague, Czech Republic

- 9 IMPACT OF ACTIVATORS OF ORGANIC MATTER ON SOIL AND CROP STAND PROPERTIES IN CONDITIONS OF VERY HEAVY SOILS
Petr Sarec, Petr Novak, Jitka Kumhalova
Czech University of Life Sciences Prague, Czech Republic
- 10 THEORETICAL INVESTIGATIONS OF THE OSCILLATIONS OF THE CLEANER OF THE ROOT CROP HEADS HANGED ON AN INTEGRAL ROW-CROP TRACTOR
Volodimir Bulgakov, Stanislav Nikolaenko, Ivan Holovach, Semjons Ivanovs
National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Agriculture, Latvia
- 11 EXPERIMENTAL RESEARCH OF OIL EXTRACTION FROM CANOLA BY USING MICROWAVE TECHNOLOGY
Oleg Burdo, Valentyna Bandura, Ludmyla Kolianovska, Ilmars Dukulis
Odessa National Academy of Food Technologies of Ukraine, Ukraine; Vinnytsia National Agrarian University of Ukraine, Ukraine; Latvia University of Agriculture, Latvia
- 12 INVESTIGATION OF BIOFUEL PRODUCTION POSSIBILITIES FOR STABILISATION OF AGRO-INDUSTRIAL COMPLEX OF UKRAINE
Hryhorij Kaletnik, Irina Pilvere, Stanislav Nikolaenko, Volodimir Bulgakov
Vinnytsia National Agrarian University of Ukraine, Ukraine; Latvia University of Agriculture, Latvia; National University of Life and Environmental Sciences of Ukraine, Ukraine
- 13 TRENDS IN DEVELOPMENT OF TRACTOR FLEET IN LATVIA
Dainis Viesturs, Nikolajs Kopiks
Latvia University of Agriculture, Latvia
- 14 THE IMPACT OF SECONDARY SOIL TILLAGE TECHNOLOGY ON SOIL PARTICLES DISPLACEMENT ON SLOPING FIELDS IN CENTRAL BOHEMIA REGION
Josef Hula, Petr Novak, Jitka Kumhalova
Czech University of Life Sciences Prague, Czech Republic
- 15 EXPERIMENTAL RESEARCHES REGARDING ASSESSMENT OF COVERAGE DEGREE OBTAINED BY ORCHARD SPRAYING MACHINE
Eugen Marin, Mihai Matache, Mihaela Nitu, Gheorghe Gabriel
National Institute of Research-Development for Machines and Installations Designed to Agriculture and Food Industry, Romania
- 16 OPERATION IMPROVEMENT OF GRASS DRILL SEEDING *KOCHIA PROSTRATA*
Yevgeny Trukhachev, Vladimir Maliyev, Mikhail Danilov, Lyubov Vysochkina
The Ministry of Agriculture of Stavropol region, Russia; Stavropol State Agrarian University, Russia
- 17 KINEMATIC SCHEME OF THE EQUIPMENT TO REED HARVESTING MACHINE MRS
Gheorghe Ivan, Valentin Vladut, Radu Ciuperca, Victor Moise
National Institute of Research-Development for Machines and Installations Designed to Agriculture and Food Industry, Romania

Section 2: RENEWABLE ENERGY

5 J.Cakstes blvd., Room 429

Chairman: Dr.sc.ing. **Imants Ziemelis**, *Latvia University of Agriculture, Latvia*

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- 1 QUASI-AUTONOMOUS PHOTOVOLTAIC APPLICATION IN NORTH REGIONS
Andrejs Snegirjovs, Peteris Shipkovs, Galina Kashkarova, Kristina Lebedeva
Institute of Physical Energetics, Latvia
- 2 EVALUATION OF SOLAR SORPTION REFRIGERATION SYSTEM PERFORMANCE IN LATVIA
Dmitrijs Rusovs, Sigurds Jaundalders, Peteris Stanka
Riga Technical University, Latvia
- 3 ASSESSMENT OF WILD CHERRY (*PRUNUS AVIUM* L.) CHOPPING AND UTILIZATION FOR BIOFUEL AND INVESTIGATION OF CHAFF PROPERTIES
Algirdas Jasinskas, Vytautas Kucinskas, Egle Jotautiene, Imants Ziemelis
Aleksandras Stulginskis University, Lithuania; Latvia University of Agriculture, Latvia
- 4 RESEARCH IN FIBROUS PLANT PREPARATION FOR PRESSED SOLID BIOFUEL AND DETERMINATION OF PELLET INDICATORS
Dionizas Streikus, Algirdas Jasinskas, Vytautas Kucinskas, Jiri Masek
Aleksandras Stulginskis University, Lithuania; Czech University of Life Sciences Prague, Czech Republic
- 5 ESTIMATING ENERGY YIELD OF WIND TURBINES IN SAMARIA REGION
Sergei Kolesnik, Moshe Sitbon, Asher Yahalom, Alon Kuperman
Ariel University of Samaria, Israel; Ben-Gurion University of the Negev, Israel
- 6 THE DEVELOPMENT OF THE GASIFICATION/ COMBUSTION CHARACTERISTICS AT THERMO-CHEMICAL CONVERSION OF BIOMASS MIXTURES
Inesa Barmina, Raimonds Valdmanis, Maija Zake, Liva Ozola, Uldis Strautins
University of Latvia, Latvia
- 7 EXPERIMENTAL AND NUMERICAL STUDY OF THE DEVELOPMENT OF SWIRLING FLOW AND FLAME DYNAMICS AND COMBUSTION CHARACTERISTICS AT BIOMASS THERMO-CHEMICAL CONVERSION
Inesa Barmina, Raimonds Valdmanis, Harijs Kalis, Maksims Marinaki
University of Latvia, Latvia
- 8 EFFECTS OF GRADIENT MAGNETIC FIELD ON SWIRLING FLAME DYNAMICS
Inesa Barmina, Maija Zake, Uldis Strautins, Maksims Marinaki
University of Latvia, Latvia
- 9 PRODUCTION AND CONSUMPTION OF FUELWOOD AS ENERGY RESOURCE: CASE OF LATVIA
Gunita Mazure, Gunta Grinberga-Zalite
Latvia University of Agriculture, Latvia
- 10 INFLUENCE OF FERTILIZERS ON CHEMICAL CONTENT IN GRASS BIOMASS.
Aleksandrs Adamovics, Rasma Platace, Inguna Gulbe, Semjons Ivanovs
Latvia University of Agriculture, Latvia

- 11 ASSESSMENT OF ASH MELTING TEMPERATURE OF BIRCH AND GRASS BIOMASS PELLETS MIXTURES
Rasma Platace, Aleksandrs Adamovics, Semjons Ivanovs, Inguna Gulbe
Latvia University of Agriculture, Latvia
- 12 COMPARATIVE INVESTIGATION OF FIXED AND TRACKING THE SUN SOLAR PHOTOVOLTAIC PANELS
Imants Ziemelis, Henriks Putans, Ilze Pelece, Andrejs Snegovs
Latvia University of Agriculture, Latvia
- 13 WATER HEATING WITH TRACKING TO SUN SOLAR BATTERIES
Ilze Pelece, Henriks Putans, Imants Ziemelis, Liene Kancevica
Latvia University of Agriculture, Latvia
- 14 METHANE PRODUCTION FROM STILLAGE
Vilis Dubrovskis, Imants Plume
Latvia University of Agriculture, Latvia
- 15 BIOGAS POTENTIAL FROM DEMAGED BREAD
Vilis Dubrovskis, Imants Plume
Latvia University of Agriculture, Latvia
- 16 ENZYMATIC AND CATALYSTIC ENHANCEMENT OF METHANE PRODUCTION FROM CORN SILAGE AND GRAIN RESIDUES
Vilis Dubrovskis, Imants Plume
Latvia University of Agriculture, Latvia
- 17 INVESTIGATION IN PROCESS OF FERMENTATION MEDIUM MIXING IN BIOREACTOR
Viktor Marchenko, Aleksandr Sorokin, Dmitry Sidelnikov, Andrey Panasenko
Stavropol State Agrarian University, Russia; Kalmyk Research Institute of Agriculture by named M. B. Narbaeva, Russia

Section 3: ENERGETICS AND AUTOMATION

5 J.Cakstes blvd., Room 410

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- 1 APPLICATION OF RESONANCE METHOD FOR THE EXAMINING OF THE PISTON RINGS TECHNICAL CONDITION
Aleksandrs Gasparjans, Aleksandrs Terebkovs, Anastasija Ziravecka
Latvian Maritime Academy, Latvia; Riga Technical University, Latvia
- 2 THE URBAN HYDROLOGICAL RESPONSE UNIT PARAMETERS CALIBRATION AND VERIFICATION FOR CONCEPTUAL HYDROLOGICAL MODEL METQ
Inga Grinfelde, Anda Bakute
Latvia University of Agriculture, Latvia; Expertisecentrum Regelgeving Bouw, Netherlands
- 3 INTEGRATION OF FIBARO SYSTEM TO INTRUDER AND HOLD-UP ALARM SYSTEMS
Jan Kaderabek
Czech University of Life Sciences Prague, Czech Republic
- 4 TRAJECTORY PLANNING OF MOBILE ROBOT MOVEMENT IN UNKNOWN ENVIRONMENT
Andrius Nemeiksis, Vitalijs Osadcuks
Latvia University of Agriculture, Latvia
- 5 CHARACTERIZATION OF VINE CANOPY THROUGH TWO DIMENSIONAL IMAGING
Francesco Marinello, Giulio Toniolo, Tatevik Yezekian, Luigi Sartori
University of Padova, Italy; Estonian University of Life Sciences, Estonia
- 6 DETERMINATION CONSTANTS OF 4-ELEMENT REOLOGICAL MODEL WITH REBOUND RESILIENCE METHOD
Andris Martinovs, Svetlana Polukoshko, Elvijs Apeinans, Edgars Zaicevs
Rezekne Academy of Technologies, Latvia; Ventspils University College, Latvia
- 7 SIMPLIFIED MODEL FOR DETERMINATION OF LOCAL NITROGEN LOSSES FOR EXPLOITATION OF SUSTAINABLE PRECISION AGRICULTURE
Francesco Marinello, Simone Gatto, Alessandro Bono, Andrea Pezzuolo
University of Padova, Italy; Porto Felloni Agr., Italy
- 8 ESTIMATION OF CROSS-FLOW INFLUENCE ON SPRING-MOUNTED CYLINDER IN TRIANGULAR CYLINDER ARRAY
Sabine Upnere, Normunds Jekabsons
Ventspils University College, Latvia; Riga Technical University, Latvia; Jekabsons Engineering Systems, Latvia
- 9 ALGORITHM OF CONTROLLING THE REACTIVE POWER COMPENSATOR WITH NONLINEAR LOADS
Igor Vorotnikov, Maxim Mastepanenko, Shaliko Gabrielian, Nataliya Kasyanova
Stavropol State Agrarian University, Russia
- 10 PROFILOGRAPHY AND ANALYSIS OF SURFACE STRUCTURES OF MATERIALS
Gunnar Kunzel, Monika Hromasova, Miloslav Linda
Czech University of Life Sciences Prague, Czech Republic

- 11 REACTIVE ELECTRICAL POWER COMPENSATION IN THE HOUSEHOLD SECTOR
Arvids Jakusenoks, Aigars Laizans
Latvia University of Agriculture, Latvia
- 12 USING OF ELECTRON MICROSCOPY FOR TOOL WEAR EVALUATION
Natasa Naprstkova, Jaromir Cais, Pavel Kraus, Miroslava Tavodova
J. E. Purkyne University in Usti nad Labem, Czech Republic; Technical University of Zvolen, Slovakia
- 13 THE EFFECTIVENESS OF VIBRATION MACHINES
Vladimir Astashev, Vitaly Krupenin
Mechanical Engineering Research Institute of the Russian Academy of Sciences, Russia; Moscow Polytechnic University, Russia
- 14 INFLUENCE OF GLASS PACKAGE THERMAL PROPERTIES ON THE ENERGY EFFICIENCY OF SUSTAINABLE BUILDINGS
Sandra Gusta, Silvija Strausa, Uldis Gross
Latvia University of Agriculture, Latvia
- 15 NEW TYPE CAM-SCREW MECHANICAL PRESS
Erlan Askarov, Algazy Zhauyt, Zhastalap Abilkaiyr, Adilet Zhankeldi, Batyr Naurushev
Kazakh National Technical University named after K.I. Satpayev, Kazakhstan
- 16 CHANGES OF THE COEFFICIENT OF VARIATION OF THE TRANSVERSE LIQUID DISTRIBUTION FOR SINGLE AND DUAL STREAM ATOMIZERS
Tomasz Nowakowski, Jaroslaw Chlebowski, Jan Kaminski
Warsaw University of Life Sciences, Poland
- 17 APPLICATION OF ELECTROSTATIC ANALOGY METHOD BASED ON DIFFERENTIAL OHM'S LAW IN NDT SYSTEMS FOR MONITORING INTERNAL DEFECTS IN PIPELINES MADE OF CONDUCTIVE MATERIALS IN AGRICULTURE
Anatoliy Bazhenov, Galina Bondareva, Natalia Grivennaya, Sergey Malygin
Don State Technical University, Russia
- 18 CHARACTERISTICS OF THE OPTOELECTRONIC TORSION MEASUREMENT BASED TORQUE SENSOR
Aivars Kakitis, Vitalijs Osadcuks, Imants Nulle
Latvia University of Agriculture, Latvia

Section 4: ENGINEERING TECHNOLOGIES AND MATERIAL SCIENCES

5 J.Cakstes blvd., Room 327

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- 1 INVESTIGATIONS IN MULTIGLASS WINDOW THERMAL QUALITIES
Edmunds Visockis, Raimunds Selegovskis, Uldis Gross, Stanislavs Pleiksnis
Latvia University of Agriculture, Latvia
- 2 EFFECT OF ADDITION OF NANOPARTICLES TiO_2 INTO PTFE COATING
Irena Lysonkova, Jan Novotny, Jaromir Cais, Stefan Michna
J. E. Purkyne University in Usti nad Labem, Czech Republic
- 3 THE PHYSICAL MECHANICAL PROPERTIES EVALUATION OF EXPERIMENTAL GRANULATED ORGANIC COMPOST FERTILIZER
Ramunas Mieldazys, Egle Jotautiene, Algirdas Jasinskas, Aivars Aboltins
Aleksandras Stulginskis University, Lithuania; Latvia University of Agriculture, Latvia
- 4 INVESTIGATED PARTICLE GEOMETRICAL PARAMETERS AND AERODYNAMIC FEATURES OF GRANULAR MANURE FERTILIZERS
Egle Jotautiene, Vaidas Bivainis, Karolis Zokaitis, Raimonda Zinkeviciene
Aleksandras Stulginskis University, Lithuania
- 5 ANALYSIS OF MODEL AND ANISOTROPY OF SURFACE WITH IRREGULAR ROUGHNESS
Natalija Bulaha, Janis Rudzitis
Riga Technical University, Latvia
- 6 RESEARCH IN SURFACE ROUGHNESS FOR LASER CLADDING COATINGS
Natalija Bulaha, Sergejs Locs
Riga Technical University, Latvia; Daugavpils University, Latvia
- 7 MECHANICAL PROPERTIES OF WOOD-GEOPOLYMER COMPOSITE
Andris Berzins, Andris Morozovs, Uldis Gross, Janis Iejavs
Latvia University of Agriculture, Latvia; Forest and Wood Products Research and Development Institute, Latvia
- 8 TORSIONAL, COMPRESSION AND SHEAR STIFFNESS OF THIN-LAYER RUBBER-METAL SPHERICAL JOINT-HINGE
Svetlana Polukoshko, Andris Martinovs, Vladimirs Gonca
Ventspils University College, Latvia; Rezekne Academy of Technologies, Latvia; Riga Technical University, Latvia
- 9 DEFECT ANALYSIS ON LATVIAN RAILWAY, RESEARCH ON DEFECTIVE RAIL
Pavel Gavrilov, Viktor Ivanov
Riga Technical University, Latvia
- 10 INVESTIGATION OF THE EFFECTS OF ORGANIC FERTILIZER PELLET RHEOLOGICAL AND GEOMETRIC PROPERTIES ON MECHANICAL STRENGTH
Antanas Pocius, Egle Jotautiene, Egidijus Zvicevicius, Sigute Savickiene
Klaipeda State University of Applied Sciences, Lithuania; Aleksandras Stulginskis University, Lithuania

- 11 THE ANALYSIS OF THE NEW TYPE AL-SI-MG ALLOY STRUCTURES WITH DIFFERENT CONTENTS OF CA DUE TO THE CHEMICAL PROPERTIES
Elena Strihavkova
J. E. Purkyne University in Usti nad Labem, Czech Republic
- 12 CHEMICAL PRE-TREATMENTS OF ALUMINIUM MATERIALS IN ORDER TO INCREASE SELECTED PROPERTIES OF THE SURFACE
Jaroslava Svobodova
J. E. Purkyne University in Usti nad Labem, Czech Republic
- 13 FERRO-VORTEX APPARATUS
Andrey Adoshev, Sergey Antonov, Sergey Yastrebov, Mikhail Melnikov
Stavropol State Agrarian University, Russia
- 14 DETERMINATION CENTER OF PERCUSSION FOR HAMMER MILL HAMMERS
Mareks Smits, Eriks Kronbergs
Latvia University of Agriculture, Latvia
- 15 KINEMATIC ANALYSIS OF RHOMBOID PRESSING MECHANISM
Edgars Repsa, Eriks Kronbergs
Latvia University of Agriculture, Latvia

Section 5: TRANSPORT, MECHANISMS, FUELS

5 J.Cakstes blvd., Room 431

Chairman: Dr.sc.ing. **Dainis Berjoza**, *Latvia University of Agriculture, Latvia*

Vice-chairman: Dr.sc.ing. **Irina Belinskaia**, *Saint-Petersburg State Agrarian University, Russia*

- 1 MOBILE TICKET LIFECYCLE MANAGEMENT: CASE STUDY OF PUBLIC TRANSPORT IN LATVIA
Nikolajs Bumanis, Gatis Vitols, Irina Arhipova, Ivars Mozga
Ltd "Mobilly", Latvia; Latvia University of Agriculture, Latvia
- 2 RECYCLING OF WASTE LUBRICANTS BY USING LOW-TONNAGE TECHNOLOGY
Irina Belinskaia, Alexander Kartoshkin
Saint-Petersburg State Agrarian University, Russia
- 3 TRACTOR MFWD BRAKING DECELERATION RESEARCH BETWEEN DIFFERENT WHEEL DRIVE
Povilas Gurevicius, Algirdas Janulevicius
Aleksandras Stulginskis University, Lithuania
- 4 DEPENDENCE OF FUEL CONSUMPTION OF MEDIUM POWER TRACTOR ON DIFFERENT SOIL AND TIRE DEFORMATIONS
Vidas Damanauskas, Aleksandras Velykis, Antanas Satkus
Lithuanian Research Centre for Agriculture and Forestry, Lithuania
- 5 EFFECTS OF THE WEIGHT OF BATTERIES ON THE PERFORMANCE PARAMETERS OF AN ELECTRIC AUTOMOBILE
Dainis Berjoza, Inara Jurgena
Latvia University of Agriculture, Latvia
- 6 IMPACT OF FEED ROLLERS ON PRODUCTIVITY AND FUEL CONSUMPTION
Agris Zimelis, Santa Kaleja, Gints Spalva, Andis Lazdins
Latvian State Forest Research Institute "Silava", Latvia
- 7 DESIGN MODIFICATION OF SEED DISTRIBUTOR OF PNEUMATIC SEEDER FOR CORN SOWING
Elena Zubrilina, Lyubov Vysochkina, Mikhail Danilov, Vladimir Maliyev
Don State Technical University, Russia; Stavropol State Agrarian University, Russia
- 8 KINEMATIC ANALYSIS OF THE EXECUTION MECHANISM OF SLOTS FOR AFFORESTATION
Gabriel Constantin Bogdanof, Victor Moise Name, Alexandra Visan, Valeria Gabriela Ciobanu
National Institute of Research-Development for Machines and Installations Designed to Agriculture and Food Industry, Romania; University Politehnica of Bucharest, Romania
- 9 VEHICLE HYBRID FREE-PISTON ENGINE-GENERATOR
George Nerubenko, Vitaly Krupenin, Cyril Nerubenko
Infocruse Inc., Canada; Moscow Polytechnic University, Russia; Mechanical Engineering Research Institute of the Russian Academy of Sciences, Russia; NER BALANCER Limited, Canada
- 10 APPLICATION OF GPS SENSOR FOR RECOVERY OF PRECISE POSITION OF AIRCRAFT IN AIR TRANSPORT
Kamil Krasuski, Janusz Cwiklak
District Office in Ryki, Poland; Polish Air Force Academy, Poland

- 11 RISK MANAGEMENT OF MAGNETIC FIELD FROM INDUSTRIAL INDUCTION HEATER - A CASE STUDY
Tarmo Koppel, Inese Vilcane
Tallinn University of Technology, Estonia; Riga Technical University, Latvia
- 12 ROAD ACCESSIBILITY PROBLEM AS PART OF LAND CONSOLIDATION PLANNING
Jaroslav Janus, Piotr Bozek, Jaroslav Taszakowski, Agnieszka Glowacka
University of Agriculture in Krakow, Poland
- 13 MONITORING OF GREEN ROLLING METHODS AND THEIR IMPACT ON GREEN SPEED
Lukas Fichtl, Vadym Shapoval
Czech University of Life Sciences Prague, Czech Republic
- 14 DISINFECTING OF WINTER WHEATGRAIN WITH ELECTROPHYSICAL FACTORS
Valentina Avdeeva, Sergey Antonov, Anatoly Molchanov, Igor Devedorkin
Stavropol State Agrarian University, Russia
- 15 THE CALCULATION OF THE TRANSMITTED TORQUE UPGRADED FIXED CONNECTION
Roman Pavlyuk, Anatoly Lebedev, Anton Zacharin, Pavel Lebedev
Stavropol State Agrarian University, Russia

Section 6: MATHEMATICAL MODELING AND CAD

5 J.Cakstes blvd., Room 212

Chairman: Dr.sc.ing. **Aivars Aboltins**, *Latvia University of Agriculture, Latvia*

Vice-chairman: Dr.sc.ing. **Pavel Kic**, *Czech University of Life Sciences Prague, Czech Republic*

- 1 STABILITY OF SHALLOW MIXING LAYERS WITH ASYMMETRIC BASE FLOW PROFILE
Vladislav Kremenetsky, Andrei Kolyshkin
Riga Technical University, Latvia
- 2 ELECTRIC FIELD EFFECTS ON GASIFICATION/COMBUSTION AT THERMO-CHEMICAL CONVERSION OF BIOMASS MIXTURES
Inesa Barmina, Maija Zake, Harijs Kalis, Maksims Marinaki
University of Latvia, Latvia
- 3 SPECIFICS OF NATURAL FREQUENCY MEASUREMENTS FOR FLOOR VIBRATION
Marina Cerpinska, Martins Irbe
Riga Technical University, Latvia
- 4 ON MATHEMATICAL MODELLING OF HEAT AND MOISTURE DISTRIBUTION IN THE DRYING PROCESS FOR POROUS TWO LAYERED GYPSUM BOARD PRODUCTS
Aivars Aboltins, Harijs Kalis, Ilmars Kangro
Latvia University of Agriculture, Latvia; University of Latvia, Latvia; Rezekne Academy of Technologies, Latvia
- 5 ANALYTICAL SOLUTION OF THE PROBLEM ON MHD FLOW IN DUCT WITH PERFECTLY CONDUCTING HARTMANN WALLS AND SLIP CONDITION ON CONDUCTING SIDE WALLS
Elena Ligere, Ilona Dzenite, Aleksandrs Matvejevs
Riga Technical University, Latvia
- 6 ERROR INVESTIGATION OF DIFFUSION COEFFICIENT AT THE BEGINNING OF DRYING EXPERIMENT
Aivars Aboltins, Tatjana Rubina, Egle Jotautiene
Latvia University of Agriculture, Latvia; Aleksandras Stulginskis University, Lithuania
- 7 DRYING PROCESS BY FORCED CONVECTION OF CLOVER
Pavel Kic
Czech University of Life Sciences Prague, Czech Republic
- 8 EXPERIMENTAL STUDY OF VERMICOMPOST DRYING PROCESS
Aivars Kakitis, Olafs Vronskis, Imants Nulle
Latvia University of Agriculture, Latvia
- 9 GENERATION OF UNDERWATER OBJECT MOTION BY INTERNAL INTERACTIONS
Janis Viba, Igors Tipans, William M. Megill, Frederike Oetker
Riga Technical University, Latvia; Rhine-Waal University of Applied Sciences, Germany
- 10 STRUCTURAL AND KINEMATIC ANALYSIS OF RATCHET MECHANISM THAT ACTS ON CHAIN CONVEYOR OF MANURE SPREADER
Popa Lucretia, Dudici Luciana, Nedelcu Ancuta, Stefan Vasilica
National Institute of Research-Development for Machines and Installations Designed to Agriculture and Food Industry, Romania; University Politehnica of Bucharest, Romania

- 11 INFLUENCE OF MOISTURE ON THERMAL PROPERTIES OF WALLS IN BASEMENTS OF BUILDINGS
Pavel Kic
Czech University of Life Sciences Prague, Czech Republic
- 12 DEVELOPMENT OF CLASSROOM MICROCLIMATE MONITORING SYSTEM
Armands Kviesis, Amanda Klavina, Gatis Vitols
Latvia University of Agriculture, Latvia
- 13 CREATING CONSTRUCTION DOCUMENTS OF RURAL HOUSE FROM THE POINT CLOUD USING CAD
Joanna A. Pawlowicz
University of Warmia and Mazury in Olsztyn, Poland
- 14 WOOD DRYING MATHEMATICAL MODELING
Aivars Aboltins, Jan Papez, Pavel Kic
Latvia University of Agriculture, Latvia; Czech University of Life Sciences Prague, Czech Republic
- 15 TIRE CASINGS AND THEIR MATERIAL CHARACTERISTICS FOR COMPUTATIONAL MODELING OF TIRES
Jan Krmela, Vladimira Krmelova
Alexander Dubcek University of Trencin, Slovakia
- 16 KINETIC MODELING OF ETHANOL FERMENTATION BY YEAST *KLUYVEROMYCES MARXIANUS* FROM LACTOSE- AND POLYFRUCTAN- CONTAINING SUBSTRATES
Jekaterina Martynova, Martins Mednis, Armands Vigants, Peteris Zikmanis
University of Latvia, Latvia

Section 7: EDUCATION AND MANAGEMENT

5 J.Cakstes blvd., Room 336

Chairman: Dr.paed. **Baiba Briede**, *Latvia University of Agriculture, Latvia*

Vice-chairman: Dr.oec. **Ligita Melece**, *Institute of Agricultural Resources and Economics, Latvia*

- 1 EVALUATION OF QUALITY AND EFFICIENCY IN ENGINEERING EDUCATION STUDY PROGRAMS
Janis Eiduks, Liga Paura, Irina Arhipova
Latvia University of Agriculture, Latvia
- 2 USE OF MATHEMATIC PROGRAM PACKAGES FOR IMPROVING AND MODERNIZING TEACHING MATHEMATICS IN THE FACULTY OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGIES IN RIGA TECHNICAL UNIVERSITY
Inta Volodko, Sarmite Cernajeva
Riga Technical University, Latvia
- 3 STUDENT-RELATED FACTOR FOR DROPPING OUT IN THE FIRST YEAR OF STUDIES AT LLU ENGINEERING PROGRAMMES
Anda Zeidmane, Tatjana Rubina
Latvia University of Agriculture, Latvia
- 4 COMPETENCE-BASED ENGINEERING STUDIES
Baiba Briede, Ludis Peks
Latvia University of Agriculture, Latvia
- 5 STUDENTS' PROFESSIONAL DIRECTION TOWARDS ENGINEERING PROFESSIONS AT COMPREHENSIVE SECONDARY SCHOOLS IN THE CONTEXT OF SELF-DETERMINATION
Irena Katane, Edgars Katans, Evita Korna, Ineta Kristovska
Latvia University of Agriculture, Latvia; IT company "Autentica", Latvia; University of Business, Arts and Technology RISEBA, Latvia
- 6 THEORETICAL BACKGROUND FOR INVESTIGATION AND PROMOTION OF ENGINEERS COMPETITIVENESS IN EDUCATION
Irena Katane, Regina Baltusite, Edgars Katans
Latvia University of Agriculture, Latvia; IT company "Autentica", Latvia
- 7 USE OF ECONOMETRIC MODEL FOR DEVELOPING AN OUTLOOK FOR LIVESTOCK SECTOR IN LATVIA
Aleksejs Nipers, Irina Pilvere, Sandija Zeverte-Rivza, Agnese Krievina
Latvia University of Agriculture, Latvia; Institute of Agricultural Resources and Economics, Latvia
- 8 RELATIVE EVALUATION OF AGRICULTURAL LAND FOR PURPOSES OF LAND CONSOLIDATION
Aina Palabinska, Anda Jankava
Latvia University of Agriculture, Latvia
- 9 SUSTAINABILITY ASSESSMENT OF AGRICULTURAL PRODUCTION: CASE STUDY OF LATVIAN CROP SECTOR
Arnis Lenerts, Dina Popluga, Rogier Schulte, Irina Pilvere
Latvia University of Agriculture, Latvia; Wageningen University, Netherlands
- 10 COMPETITIVENESS OF BLUE ECONOMY IN LATVIA
Inese Biuksane
Riga Technical University, Latvia

- 11 ANALYSIS OF DEMAND FOR LAND CONSOLIDATION IN MILEJOW COMMUNE, LECZNA DISTRICT
Zanna Strek
University of Life Sciences in Lublin, Poland
- 12 METHODS OF MEASURING INDUSTRY TOTAL FACTOR PRODUCTIVITY WITHIN AN INPUT-OUTPUT FRAMEWORK
Andrejs Jaunzems
Ventspils University College, Latvia
- 13 FACTORS INFLUENCING LATVIAN SMALL AND MEDIUM ENTERPRISES TOWARDS ECO-INNOVATION
Ligita Melece, Juris Hazners
Institute of Agricultural Resources and Economics, Latvia
- 14 PROJECTIONS FOR THE LATVIAN DAIRY AND BEEF SECTOR
Aleksejs Nipers, Irina Pilvere, Sandija Zeverte-Rivza
Latvia University of Agriculture, Latvia
- 15 COMPREHENSIVE APPROACH TO EVALUATION OF DEGRADATION IN CHOSEN PARTS OF ENERGY EQUIPMENT
Sylvia Kusmierczak, Tomas Majzner
J. E. Purkyne University in Usti nad Labem, Czech Republic
- 16 ASSESSMENT OF DATA ON STUDYING PERSONAL - PROFESSIONAL SELF-DETERMINATION OF STUDENTS OF AGROENGINEERING PROFILE
Elena Zorina, Olga Chudnova
Stavropol State Agrarian University, Russia
- 17 LEGAL AND MARKET CONDITIONS FOR THE MANAGEMENT OF AGRICULTURAL PROPERTY OF THE STATE TREASURY IN POLAND.
Hubert Kryszk, Krystyna Kurowska
University of Warmia and Mazury in Olsztyn, Poland
- 18 AVAILABILITY TO PUBLIC AND PRIVATE GOODS AND SERVICES AS ELEMENT OF SUSTAINABLE DEVELOPMENT OF RURAL AREAS
Barbara Prus, Tomasz Salata, Krzysztof Gawronski
University of Agriculture in Krakow, Poland
- 19 SETTLEMENT NETWORK CONCENTRATION AS DETERMINANT FOR RURAL AREAS DEVELOPMENT
Barbara Prus, Stanislaw Bacior, Malgorzata Dudzinska
University of Agriculture in Krakow, Poland; University of Warmia and Mazury in Olsztyn, Poland
- 20 SPATIAL BORDERS OF A REAL-ESTATE OWNERSHIP TITLE UNDER PRESENT LEGAL CONDITIONS IN POLAND
Jadwiga Konieczna, Agnieszka Trystula
University of Warmia and Mazury in Olsztyn, Poland
- 21 FACTORS SHAPING INTERVENTIONAL POLICY IN AGRICULTURAL SECTOR
Renata Marks-Bielska
University of Warmia and Mazury in Olsztyn, Poland

Section 8: HUSBANDRY

5 J.Cakstes blvd., Room 326

Chairman: Dr.hab.sc.ing. **Marek Gaworski**, *Warsaw University of Life Sciences, Poland*

Vice-chairman: Dr.sc.ing. **Juris Priekulis**, *Latvia University of Agriculture, Latvia*

- 1 EFFICIENCY OF COW MECHANICAL DRIVER USING SIDE BY SIDE TYPE MILKING EQUIPMENT
Maris Mangalis, Juris Priekulis
Latvia University of Agriculture, Latvia
- 2 THE AUTOMATED CAVITY RING DOWN SPECTROSCOPY USAGE FOR NITROUS OXIDE EMISSIONS MEASUREMENTS FROM SOIL USING RECIRCULATION SYSTEM
Inga Grinfelde, Kristine Valujeva, Karina Zaharane, Laima Berzina
Latvia University of Agriculture, Latvia
- 3 AMMONIA EMISSION EVALUATION FROM MANURE MANAGEMENT
Olga Frolova, Juris Priekulis, Laima Berzina, Aivars Aboltins
Latvia University of Agriculture, Latvia
- 4 ENERGETIC EVALUATION OF GREEN MANURE PREPARATION FOR ORGANIC FARMS
Ausra Arlauskiene, Danute Jablonskyte-Rasce, Aleksandras Velykis, Monika Toleikiene
Lithuanian Research Centre for Agriculture and Forestry, Lithuania
- 5 SHAPE DEVELOPMENT OF WHEAT SEEDS DURING GERMINATION
Jakub Lev, Bohumil Chalupa, Jiri Blahovec
Czech University of Life Sciences Prague, Czech Republic
- 6 USE OF ULTRASOUND MEASUREMENTS FOR LAMB FATTENING CONTROL
Dace Barzdina, Daina Kairisa
Latvia University of Agriculture, Latvia
- 7 EFFECTIVENES OF MASTITIS DETECTION INDEX FOR COW MONITORING AND ABNORMAL MILK DETECTION IN THE MILKING ROBOTS
Ivars Lusis, Vita Antane, Armins Laurs
Latvia University of Agriculture, Latvia
- 8 COSTS OF LIQUID MANURE TRANSPORTATION AND INCORPORATION USING MOBILE TRANSPORT AGGREGATES
Juris Priekulis, Kaspars Vartukapteinis, Ligita Melece
Latvia University of Agriculture, Latvia; Institute of Agricultural Resources and Economics, Latvia
- 9 EFFECT OF MODERN APPLE PRODUCTION TECHNOLOGIES ON DEVELOPMENT OF FAMILY ORCHARD FARMING WITH PARTICULAR FOCUS ON POLISH CONDITIONS
Marek Gaworski, Wojciech Ciesielski, Natalia Kaminska
Warsaw University of Life Sciences, Poland
- 10 OCCUPATIONAL RISK FACTORS IN SMALL STOCKBREEDING FARMS INCLUDING LITHUANIAN CONDITIONS
Ricardas Butkus, Gediminas Vasiliauskas
Aleksandras Stulginskis University, Lithuania

- 11 EXTRUSION PERFORMANCE FOR PRODUCTION OF FUNCTIONAL FOODS FROM VEGETABLE BY PRODUCTS
Daiga Konrade, Dace Klava, Martins Sabovics, Tatjana Kince
Latvia University of Agriculture, Latvia
- 12 HEAT-MASS TRANSFER IN LAYER OF BERRIES DURING FREEZING PROCESS
Anita Blija, Ilze Beitane, Aivars Aboltins, Sigita Boca
Latvia University of Agriculture, Latvia
- 13 FARINOGRAPHIC PARAMETER VARIATION OF THE DOUGHS FROM WHEAT FLOUR WITH THE AMOUNT OF WATER ADDED
Gheorghe Voicu, Gheorghe Constantin, George Ipate, Paula Tudor
University Politehnica of Bucharest, Romania; High School "Nicolae Iorga" Nehoiu, Romania
- 14 ASSESSMENT OF ECOSYSTEMS AND ECOSYSTEM SERVICES FOR SUSTAINABLE LAND USE MANAGEMENT IN LATVIA
Elina Konstantinova, Liga Brunina, Aija Persevica, Inga Honavko
Ventspils University College, Latvia; Association Baltic Coasts, Latvia; Nature Conservation Agency, Latvia
- 15 OIL POINT DETERMINATION OF SELECTED BULK OILSEEDS UNDER COMPRESSION LOADING
Olaosebikan Layi Akangbe, David Herak
Czech University of Life Sciences Prague, Czech Republic
- 16 FUNCTIONAL AND TECHNOLOGICAL CHARACTERISTICS OF NEW CHEESE PRODUCT WITH VEGETABLE AND PREBIOTIC COMPONENTS
Marina Slozhenkina, Olga Serova, Margarita Vodolazkova, Elena Zlobina
Volgograd State Technical University, Russia; Volga Region Research Institute of Manufacture and Processing of Meat-And-Milk Production, Russia; Volgograd State University, Russia
- 17 VALUATION TECHNIQUES OF FRESHNESS OF POULTRY EGGS
Pavel Tsarenko, Igor Popov, Ivan Paronyan, Sawa Hohrin
Saint-Petersburg State Agrarian University, Russia; All-Russian Research Institute of genetics and breeding of farm animals, Russia

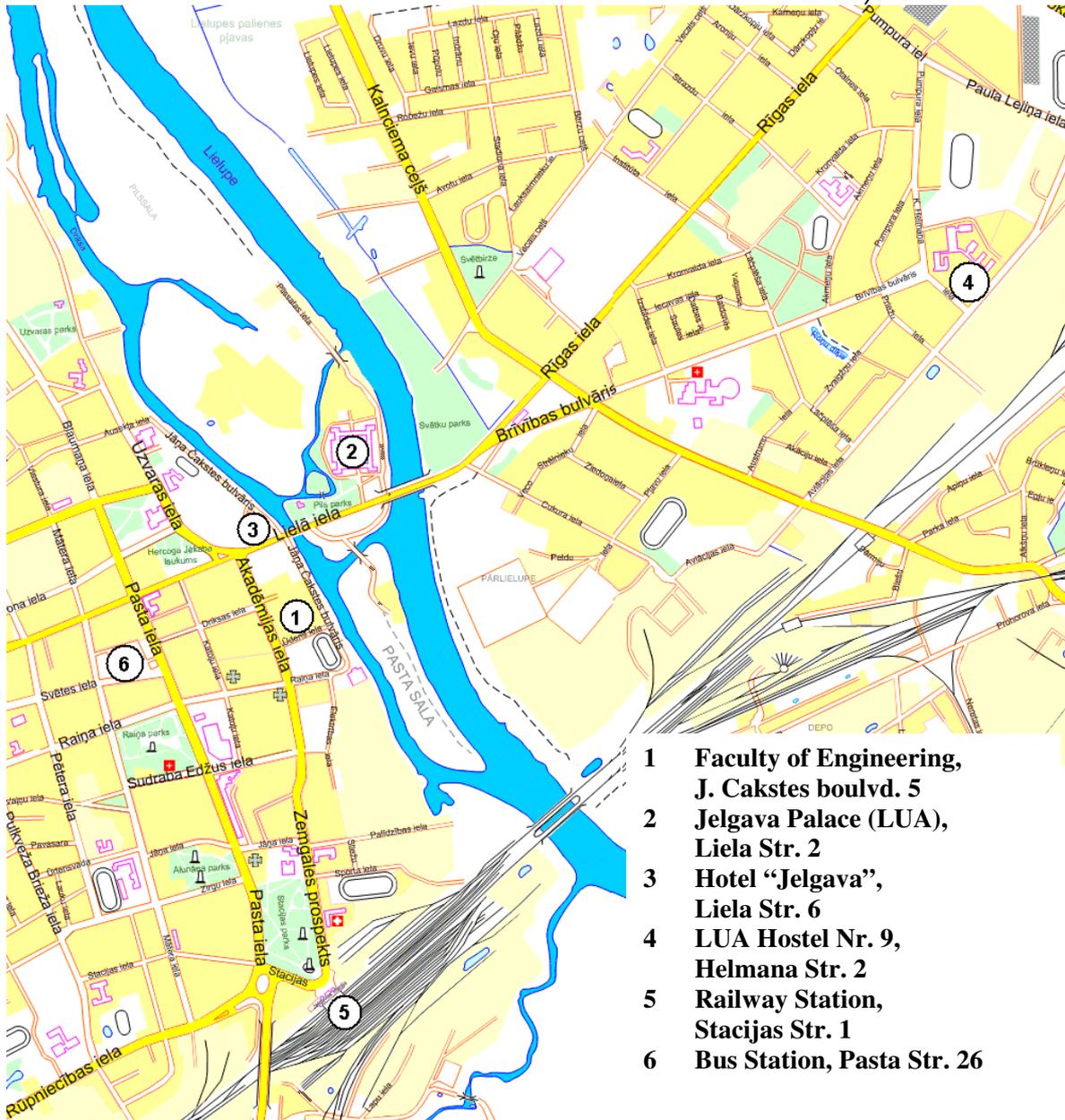
Friday, 26 May

9⁰⁰ - *Social tour*

17⁰⁰ Departure from 5 J. Cakstes blvd. at 9⁰⁰

The Latvian Agriculture Museum's collections introduce visitors to the agriculture tools, equipment and technology of the 19-20th century – steam locomobiles, tractors, threshing-machines, a collection of ploughs, motorbikes, history of land amelioration, geodesic and woodworking equipment. The museum is especially proud of the self-propelled locomobile for pulling and operating a threshing-machine manufactured by the English company "Garrett", as well as tractors from Polish "Ursus" and English "Hornsby".





- 1 Faculty of Engineering,
J. Cakstes boulvd. 5
- 2 Jelgava Palace (LUA),
Liela Str. 2
- 3 Hotel "Jelgava",
Liela Str. 6
- 4 LUA Hostel Nr. 9,
Helmana Str. 2
- 5 Railway Station,
Stacijas Str. 1
- 6 Bus Station, Pasta Str. 26

Address of the Conference Committee

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