Plenary session

Zoom Meeting ID:

Passcode:

15:40 Break

16:00 Work in sections

Date: 27.05.2021 Moderator: Aivars Aboltins

aivars.aboltins@llu.lv

2436995670

RW3iuA

Faculty of Engineering Latvia University of Life Sciences and Technologies Latvia Academy of Agricultural and Forest Sciences, Section of Engineering







ERDEV
Faculty of Engineering

has the pleasure to invite you to attend
20th International Scientific
Conference
Engineering for Rural
Development

26.-28.05.2021 Jelgava, LATVIA

Zoom Meeting link: https://zoom.us/j/2436995670?pwd=NGIxRXRYaEdZNUVDVnYvZHRqd3lXUT09

| | <u> </u> | |
|-------|---|---|
| 9:45 | Connection to online conference | |
| 10:00 | Welcome speech | Aigars Laizans, |
| | | Vice-rector, Latvia University of Life Sciences and Technologies |
| 10:10 | Opening welcome, some facts and history | Ilmars Dukulis, |
| | about ERDev conference | Dean, Faculty of Engineering, Latvia University of Life Sciences and Technologies |
| 10:20 | Opening of the conference | Aivars Aboltins, |
| | | Chairman Conference program committee |
| 10:40 | Work in sections | |
| 13:00 | Lunch | |
| 13:40 | Work in sections | |

Section 1. Agricultural machinery and tecnologies

Date: 27.05.2021 Moderator: Adolfs Rucins

adolfs.rucins@llu.lv

Regulations: presentation – 15 min, discussion – 5 min

Zoom Meeting ID: 8589883278 Passcode: 780485 Faculty of Engineering
Latvia University of Life Sciences and Technologies
Latvia Academy of Agricultural and Forest Sciences,
Section of Engineering









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| Presentetion title and authors | |
|---|--|
| | |
| DIFFERENCES IN OCCUPATION OF LYING STALLS BY COWS: CASE STUDY OF PENS WITH ONE ROW OF STALLS | |
| Marek Gaworski | |
| Warsaw University of Life Sciences, Poland | |
| IMPACT OF BIOLOGICAL WATER-BASED FERTILISERS UPON SOIL FERTILITY | |
| Valentyna Krutyakova, Nina Pyliak, <u>Olena Nikipelova</u> , Volodymyr Bulgakov, Adolfs Rucins | |
| Engineering and Technology Institute "Biotechnica", Ukraine; National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of | |
| Life Sciences and Technologies, Latvia | |
| INVESTIGATION OF TECHNOLOGY FOR OBTAINING BIOFERTILISERS BASED ON SEWAGE SLUDGE | |
| Valentina Krutiakova, Nina Pyliak, Olena Nikipelova, Volodymyr Bulgakov, Adolfs Rucins, <u>Hristo Beloev</u> | |
| Engineering and Technology Institute "Biotechnica", Ukraine; National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of | |
| Life Sciences and Technologies, Latvia | |
| RESEARCH ON COW TRAFFIC IN FACILITIES WITH AUTOMATIC MILKING SYSTEMS | |
| Maris Mangalis, Juris Priekulis, Girts Vernavs | |
| Latvia University of Life Sciences and Technologies, Latvia | |
| EVALUATION OF COMBINE HARVESTER PARAMETERS USING MANUAL AND AUTO-STEERING MODES | |
| Antanas Juostas, Egle Jotautiene | |
| Vytautas Magnus University, Lithuania | |
| INVESTIGATIONS IN OZONE APPLICATION FOR ACTIVE VENTILATION OF GRAIN | |
| Adolfs Rucins, Evita Straumite, Dainis Viesturs, Alberts Kristins | |
| Latvia University of Life Sciences and Technologies, Latvia; Institute of Solid State Physics, University of Latvia, Latvia | |
| ANALYSIS OF NEGATIVE CONSEQUENCES IN DEVELOPMENT OF MOBILE ENERGY FROM THE POINT OF VIEW OF AGROTECHNOLOGICAL | |
| RESTRICTIONS | |
| Aleksandr Levshin, Irina Gasparyan, Ivan Golubev, Aleksandr Panin | |
| Russian Timiryazev State Agrarian University, Russia; Rosinformagrotech, Research Center Agroinnovation, Russia | |
| Lunch | |
| DESIGN OF CUTTING DEVICE FOR DECAPITATION OF POTATO SHOOTS | |
| Aleksandr Levshin, Irina Gasparyan, Sergey Shchigolev, Mikhail Mekhedov | |
| Russian Timiryazev State Agrarian University, Russia | |
| STRUCTURAL FILM-LAYING MACHINES FOR USE IN COMB PLANTING OF POTATOES | |
| Irina Gasparyan, Aleksandr Levshin, Sergey Shchigolev, Shagen Gasparyan | |
| Russian Timiryazev State Agrarian University, Russia | |
| | |

| Time | Presentetion title and authors | |
|---------|---|--|
| (UTC+3) | | |
| 14:20 | IMPROVEMENT OF DIGGING SHARES OF ROOT HARVESTING MACHINES BASED ON RHEOLOGICAL MODEL OF SOIL STATE | |
| | Andrei Kalinin, Igor Teplinsky, Vycheslav Ruzhev | |
| | Saint-Petersburg State Agrarian University, Russia | |
| 14:40 | TRAPEZOIDAL DRAINAGE BUCKET AND MPVS MOUNDING DEVICE PRODUCTIVITY AND MOUND QUALITY COMPARISON | |
| | Kristaps Makovskis, Dagnija Lazdina, Igors Gusarevs, Germans Gusarevs | |
| | Latvian State Forest Research Institute "Silava", Latvia; Orvi Ltd., Latvia | |
| 15:00 | EVALUATION OF WHEAT SEED SEPARATION PERFORMANCES FOR NEW DESIGN OF ROTATING CYLINDRICAL SIEVE, EQUIPPED WITH | |
| | CUSTOMIZABLE HOMOGENIZATION COIL | |
| | Florin Nenciu, Costin Mircea, Valentin Vladut, Nastasia Belc, Mariana Berca Lavinia | |
| | National Institute of Research-Development for Machines and Installations Designed to Agriculture and Food Industry, Romania; National Research and | |
| | Development Institute for Food Bioresources , Romania | |
| 15:20 | EXPERIMENTAL INVESTIGATIONS IN DISTRIBUTION PROCESS OF AMMONIA NITRATE BY ORKING BODY WITH INCLINED AXIS | |
| | Volodymyr Bulgakov, Oleg Adamchuk, <u>Adolfs Rucins</u> , Simone Pascuzzi | |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Institute for Agricultural Engineering and Electrification, Ukraine; Latvia University | |
| 17.10 | of Life Sciences and Technologies, Latvia; University of Bari Aldo Moro, Italy | |
| 15:40 | THEORETICAL INVESTIGATION OF ROTARY DIGGING TOOL PARAMETERS FOR POTATO TUBERS | |
| | Volodymyr Bulgakov, Ivan Holovach, Vitaliy Bonchik, Semjons Ivanovs, Volodymyr Volskiy, Juri Olt | |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; State Agrarian and Engineering University in Podillia, Ukraine; Latvia University of | |
| 1.5.00 | Life Sciences and Technologies, Latvia; Institute for Agricultural Engineering and Electrification, Ukraine; Estonian University of Life Sciences, Estonia | |
| 16:00 | Break | |
| 16:20 | SIMULATION OF ELASTIC-DISSIPATIVE CONNECTION OF MULTI-AXLE BLOCK-MODULAR AGRICULTURAL TRACTOR MODULES | |
| | Volodymyr Bulgakov, Volodymyr Kuvachov, Semjons Ivanovs, Viktor Melnik | |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Tavria State Agrotechnological University, Ukraine; Latvia University of Life | |
| 16.40 | Sciences and Technologies, Latvia; Kharkiv Petro Vasylenko National Technical University of Agriculture, Ukraine EXPERIMENTAL INVESTIGATIONS IN VERTICAL VIBRATION DAMPING OF AGRICULTURAL AGGREGATE OF BLOCK-MODULAR TYPE | |
| 16:40 | | |
| | Volodymyr Bulgakov, Volodymyr Kuvachov, Semjons Ivanovs, Viktor Melnik | |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Tavria State Agrotechnological University, Ukraine; Latvia University of Life | |
| 17:00 | Sciences and Technologies, Latvia; Kharkiv Petro Vasylenko National Technical University of Agriculture, Ukraine RESEARCH IN DYNAMIC TRANSITIONAL PROCESSES OF FUNCTIONING OF COMBINE HARVESTER HYDRAULIC DRIVES | |
| 17:00 | Volodymyr Bulgakov, Semjons Ivanovs, Vadym Yaremenko, Francesco Santoro | |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Life Sciences and Technologies, Latvia; University of Bari Aldo | |
| | Moro, Italy | |
| 17:20 | OPERATIONAL AND TECHNOLOGICAL PROPERTIES OF PLOUGHING BLOCK-MODULAR MACHINE-AND-TRACTOR AGGREGATE | |
| 17.20 | Volodymyr Bulgakov, Volodymyr Kuvachov, Semjons Ivanovs, Viktor Melnik, Francesco Santoro, Juri Olt | |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Tavria State Agrotechnological University, Ukraine; Latvia University of Life | |
| | Sciences and Technologies, Latvia; Kharkiv Petro Vasylenko National Technical University of Agriculture, Ukraine; University of Bari Aldo Moro, Italy; Estonian | |
| | University of Life Sciences, Estonia | |
| 17:40 | THEORETICAL STUDY OF PNEUMATIC SEPARATION OF GRAIN MIXTURES IN VORTEX FLOW | |
| 17.70 | Valerii Adamchuk, Volodymyr Bulgakov, Semjons Ivanovs, Ivan Holovach, Yevhen Ihnatiev | |
| | National Scientific Centre "Institute for Agricultural Engineering and Electrification" of Ukraine, Ukraine; National University of Life and Environmental | |
| | Sciences of Ukraine, Ukraine; Latvia University of Life Sciences and Technologies, Latvia; Tavria State Agrotechnological University, Ukraine | |
| l | Seconds of Smalle, Smalle, Laria Shiretshy of Life Sciences and Technologies, Laria State Ingrotestation Second State Shiretshy, Orland | |

| Time | Presentetion title and authors |
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| (UTC+3) | |
| 18:00 | MATHEMATICAL MODEL OF INTERACTION BETWEEN SHARE WORKING BODY AND BEET ROOT DURING VIBRATIONAL DIGGING |
| | Volodymyr Bulgakov, Semjons Ivanovs, Ivan Holovach, Yevhen Ihnatiev |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Life Sciences and Technologies, Latvia; Tavria State |
| | Agrotechnological University, Ukraine |

Section 2. Fuels, technical liquids, transport and logistics

Date: 27.05.2021 Moderator: Maris Gailis

maris.gailis@rtu.lv

Regulations: presentation -15 min, discussion -5 min

Zoom Meeting ID: 91044944841 Passcode: 4cjRjWhZF

Faculty of Engineering Latvia University of Life Sciences and Technologies Latvia Academy of Agricultural and Forest Sciences, Section of Engineering









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| Time | Presentetion title and authors |
|---------|---|
| (UTC+3) | 1 rescriction the and authors |
| 10:40 | JUSTIFICATION OF FUEL MIXTURE COMPOSITION OF PETROLEUM BASED DIESEL FUEL AND DIESEL BIOFUEL BASED ON PLANT OIL |
| 100 | Vitaliy Chuba, Aleksandr Lavrinenko, Viacheslav Chuba, Nataliya Tsyvenkova |
| | Sumy National Agrarian University, Ukraine; National University of Life and Environmental Sciences of Ukraine, Ukraine; Polissia National University, Ukraine |
| 11:00 | COMPARISON OF CAR PERFORMANCE USING HVO FUEL AND DIESEL FUEL |
| | Kristaps Sondors, Ilmars Dukulis, Vilnis Pirs, Aivars Birkays, Gints Birzietis, Maris Gailis |
| | Latvia University of Life Sciences and Technologies, Latvia; Riga Technical University, Latvia |
| 11:20 | HYDROGEN SUPPORTED BIOCONVERSION OF BIOGAS CO2 TO UPGRADE BIOMETHANE IN FUEL FOR VEHICLES: RECENT FINDINGS IN |
| | FARMERS SURVEY |
| | Janis Kleperis, Ilze Dimanta, Biruta Sloka, Laila Zemite |
| | Institute of Solid State Physics, University of Latvia, Latvia; Riga Technical University, Latvia |
| 11:40 | EFFECT OF THREE COMPONENT AVIATION-TURBINE FUEL, BIODIESEL AND N-BUTANOL BLENDS ON PERFORMANCE EFFICIENCY AND |
| | EMISSIONS OF DIESEL ENGINE |
| | Tomas Mickevicius, Audrius Zunda |
| | Vytautas Magnus University, Lithuania |
| 12:00 | EFFECT OF BIOFUEL ON PERFORMANCE AND EMISSIONS OF DIESEL ENGINE |
| | Tomas Mickevicius, Stasys Slavinskas |
| | Vytautas Magnus University, Lithuania |
| 12:20 | DEVELOPING AND TESTING AIR-FUEL MIXTURE HEATING SYSTEM FOR INTERNAL COMBUSTION ENGINE |
| | Veljo Raide, Risto Ilves, Juri Olt |
| | Estonian University of Life Sciences, Estonia |
| 13:00 | Lunch |
| 14:00 | EFFECT OF SINGLE-CONTACT SPARK PLUG ELECTRODE GAP ON COMPOSITION OF ENGINE EXHAUST EMISSIONS |
| | Aivars Birkavs, Ruslans Smigins |
| 11.20 | Latvia University of Life Sciences and Technologies, Latvia |
| 14:20 | DETERMINATION OF CAUSES OF SERIES ER2T ELECTRIC MULTIPLE UNIT TRAIN TRACTION GEAR RUBBER-CORD SHELL DAMAGE |
| | Pavels Gavrilovs, Janis Eiduks, <u>Dmitrijs Gorbachovs</u> |
| 14.40 | Riga Technical University, Latvia |
| 14:40 | MECHANICAL CONNECTION OF METAL STRUCTURES IN WAGON BUILDINGS |
| | Ramis Zaripov, Pavels Gavrilovs |
| | Toraighyrov University, Kazakhstan; Riga Technical University, Latvia |

| Time | Presentetion title and authors |
|---------|---|
| (UTC+3) | |
| 15:00 | INFLUENCE OF ADJUSTABLE FRONT BALLAST ON TRACTOR FUEL CONSUMPTION AT WINTER WHEAT STUBBLE HARROWING |
| | <u>Vidas Damanauskas</u> , Algirdas Janulevicius |
| | Lithuanian Research Centre for Agriculture and Forestry, Lithuania; Vytautas Magnus University, Lithuania |
| 15:20 | ADVANTAGE OF USING AIRCRAFT-TYPE STAGES FOR CREATING "LATLAUNCH― LAUNCH VEHICLE |
| | Sergey Kravchenko, Nikolaj Kuleshov, Vladimir Shestakov, Natalia Panova, Ilmars Blumbergs |
| | Riga Technical University, Latvia; SIA Cryogenic and vacuum systems, Latvia |
| 15:40 | DRIVING SPEED INFLUENCE ON OPERATOR VIBRATION EXPOSURE IN FORWARDING OPERATIONS |
| | Gediminas Vasiliauskas, Ricardas Butkus, Remigijus Zinkevicius |
| | Vytautas Magnus University, Lithuania |
| 16:00 | ESTIMATION OF PRODUCTIVITY AND COST OF SMALL-SIZE FULLY-MECHANIZED CUT-TO-LENGTH SYSTEMS |
| | Agris Zimelis, Andis Lazdins, Guntis Saule, Santa Kaleja |
| | Latvian State Forest Research Institute "Silava", Latvia |

Section 3. Material science and technologies

Date: 27.05.2021 Moderator: Imants Nulle

Zoom Meeting ID:

Passcode:

imants.nulle@llu.lv

Regulations: presentation – 15 min, discussion – 5 min

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| Time | Presentetion title and authors |
|---------|---|
| (UTC+3) | |
| 10:40 | METHOD OF JUSTIFICATION OF MACHINE PARTS HARDENING MODES |
| | Alexander Pastukhov, Olga Sharaya, Eugeny Timashov, Dmitriy Bakharev |
| | Belgorod State Agricultural University named after V. Gorin, Russia |
| 11:00 | APPROXIMATE APPROACH OF RESEARCH AND ASSESSMENT OF CRACK RESISTANCE OF CYLINDRICAL HOUSINGS |
| | Volodymyr Bulgakov, Aivars Aboltins, <u>Oleksii Kutsenko</u> , Semjons Ivanovs, Simone Pascuzzi |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Life Sciences and Technologies, Latvia; Taras Shevchenko |
| | National University of Kyiv, Ukraine; University of Bari Aldo Moro, Italy |
| 11:20 | STUDY OF AXISYMMETRIC STRESS-STRAIN STATE OF BILAYER CYLINDER |
| | Volodymyr Bulgakov, Aivars Aboltins, <u>Oleksii Kutsenko</u> , Semjons Ivanovs, Hristo Beloev |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Life Sciences and Technologies, Latvia; Taras Shevchenko |
| | National University of Kyiv, Ukraine; "Angel Kanchev" University of Ruse, Bulgaria |
| 11:40 | DEVELOPMENT OF ADVANCED ALLOY STEELS FOR MACHINERY |
| | Yevhenii Aftandiliants, Svyatoslav Gnyloskurenko |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine |
| 12:00 | STUDY OF TRIBOLOGICAL PROPERTIES OF SLIDING SURFACES FOR PRODUCTION AND PACKAGING LINES |
| | <u>Vladislavs Butkevics</u> , Daina Kanaska |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 12:20 | PHYSICAL MECHANICAL PROPERTIES EVALUATION OF EXPERIMENTAL GRANULATED POULTRY MANURE FERTILIZER |
| | Ramunas Mieldazys, Egle Jotautiene, Algirdas Jasinskas |
| | Vytautas Magnus University, Lithuania |
| 12:40 | GRANULATION OF POULTRY MANURE AND BIOCHAR FOR PRODUCTION OF ORGANIC FERTILIZERS |
| | Egle Jotautiene, <u>Ramunas Mieldazys</u> , Aloyzas Gaudutis, Aivars Aboltins |
| | Vytautas Magnus University, Lithuania; Latvia University of Life Sciences and Technologies, Latvia |
| 13:00 | Lunch |
| 13:40 | AMBER NANO FIBRE DEVELOPMENT PROSPECTS TO EXPAND CAPABILITIES OF TEXTILE 3D PRINTING. FABRICATION METHODS AND |
| | THEIR FEATURES (REVIEW) |
| | Arta Viluma-Gudmona, Inga Lasenko, <u>Jaymin Vrajlal Sanchaniya</u> , Blal Abdelhadi |
| | Riga Technical University, Latvia; Cadi-Ayyad University, Morocco |

| Time (UTC+3) | Presentetion title and authors |
|--------------|--|
| 14:00 | ELECTRO-RESISTANT BIOTEXTILE DEVELOPMENT BASED ON FIBER REINFORCEMENT WITH NANO PARTICLES |
| 14.00 | Arta Viluma-Gudmona, Inga Lasenko, <u>Jaymin Vrajlal Sanchaniya</u> , Andrejs Podgornovs |
| | Riga Technical University, Latvia |
| 14:20 | PLYWOO SOME MECHANICAL PROPERTIES DEPENDING OF PRESSING TECHNOLOGICAL PARAMETERS |
| 14.20 | Uldis Spulle, Laimonis Kulins, Evija Kopeika, Karlis Hermanis Liepa, <u>Haralds Sillers</u> |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 14:40 | THE EFFICIENCY OF DIFFERENT WOOD COATINGS AGAINST WATER SURFACE ABSORPTION |
| 14.40 | Janis Iejavs, Oskars Ruluks, Laura Laiveniece, Vilnis Jakovlevs, <u>Karlis Pugovics</u> , Sigita Lise, Uldis Spulle |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 15:00 | SOME PHYSICAL AND MECHANICAL PROPERTIES OF LIGHTWEIGHT STABILISED BLOCKBOARDS PANELS |
| 13.00 | Rihards Rozins, Janis Iejavs, Vilnis Jakovlevs, Uldis Spulle |
| | Latvia University of Life Sciences and Technologies, Latvia; Forest and Wood Products Research and Development Institute, Latvia |
| 15:20 | EFFECT OF 80% WATER SOLUTION OF ANIMAL SLURRY ON CARBON STRUCTURAL S235JRC STEEL AT ROOM TEMPERATURE |
| | Tomasz Lipinski, Dariusz Karpisz |
| | University of Warmia and Mazury in Olsztyn, Poland; Cracow University of Technology, Poland |
| 15:40 | EFFECT OF TI AND B ADDITIONS AS POWDER AND PRELIMINARY ALLOY WITH AL-SI ALLOY ON MICROSTRUCTURE AND MECHANICAL |
| | PROPERTIES OF ALSI9MG ALLOY INTENDED FOR PARTS OF AGRICULTURAL MACHINERY |
| | Tomasz Lipinski, Dariusz Karpisz |
| | University of Warmia and Mazury in Olsztyn, Poland; Cracow University of Technology, Poland |
| 16:00 | Break |
| 16:20 | STABILITY AND POST-BUCKLING STATE OF SQUARE COMPOSITE WALLS OF ANISOTROPIC STRUCTURE SPARS UNDER SHEAR |
| | Oleg Mitrofanov, <u>Igors Lebedevs</u> , Margarita Urbaha |
| | Moscow Aviation Institute (National Research University), Russia; "Aviatest" LTD, Latvia; Riga Technical University, Latvia |
| 16:40 | NUMERICAL SIMULATION OF COMPOSITE REINFORCED BY SPUN THREAD KNITTED FABRIC |
| | <u>Umesh H. Vavaliya</u> , Jemish Modi, Olga Kononova |
| | Riga Technical University, Latvia |
| 17:00 | DURABILITY CRITERIA OF RUBBER PARTS OF MACHINES |
| | Svetlana Polukoshko, Vladimirs Gonca |
| | Ventspils University College, Latvia; Riga Technical University, Latvia |

Section 4. Engineering for industry and environment

Date: 27.05.2021

Moderator: Vitalijs Osadcuks

vtl@tvnet.lv

Regulations: presentation – 15 min, discussion – 5 min

Zoom Meeting ID: 5636448948 Passcode: st6QXw Faculty of Engineering
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| Time | Presentetion title and authors |
|---------|---|
| (UTC+3) | |
| 10:40 | EVALUATION OF STATE OF TECHNOGENIC ENVIRONMENT IN LATVIA AND THE WORLD IN THE 21ST CENTURY |
| | Mihails Urbans, Jelena Malahova, Vladimirs Jemeljanovs |
| | Riga Technical University, Latvia |
| 11:00 | FEASIBILITY ANALYSIS OF CULTIVATED BERRY FIELD LAYOUT FOR AUTOMATED CULTIVATION |
| | Kaarel Soots, Tormi Lillerand, Erkki Jogi, Indrek Virro, Juri Olt |
| | Estonian University of Life Sciences, Estonia |
| 11:20 | STATIC ANALYSIS OF SINGLE-AXLE TRACTOR TRIALER FRAME |
| | Jan Dizo, Miroslav Blatnicky, Stanislav Semenov, Evgeny Mikhailov, Rafal Melnik, Jakub Kurtulik |
| | University of Zilina, Slovakia; Volodymyr Dahl East Ukrainian National University, Ukraine; Lomza State University of Applied Sciences, Poland |
| 11:40 | PARAMETRIZATION OF EFFECT OF METRO WAGON BASIC STRUCTURE DOOR FORCE MODEL |
| | Miroslav Blatnicky, <u>Jan Dizo</u> |
| | University of Zilina, Slovakia |
| 12:00 | INVESTIGATION OF CENTRIFUGAL PUMP CHARACTERISTICS |
| | Edgars Repsa, Eriks Kronbergs |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 12:20 | ASSESSMENT OF GRANULATED MANURE FERTILIZER CENTRIFUGAL SPREADING FIELD SIMULATION |
| | Vaidas Bivainis, Egle Jotautiene, <u>Raimonda Zinkeviciene</u> |
| | Vytautas Magnus University, Lithuania; Kaunas University of Technology, Lithuania |
| 12:40 | ANALYSIS OF OIL POINT THRESHOLD INDICATORS OF BULK RAPESEEDS AND SUNFLOWER SEEDS UNDER COMPRESSION LOADING |
| | Cimen Demirel, David Herak, Abraham Kabutey, Oldrich Dajbych |
| | Czech University of Life Sciences Prague, Czech Republic |
| 13:00 | Lunch |
| 13:40 | EFFECT OF HOT-FILL PROCESSING AT REDUCED TEMPERATURES ON TOMATO SAUCE MICROBIOLOGICAL STABILITY IN PLASTIC |
| | PACKAGING |
| | Evalds Raits, Lasma Pinte, Asnate Kirse-Ozolina, Sandra Muizniece-Brasava |
| | Kronis Ltd., Latvia; Latvia University of Life Sciences and Technologies, Latvia |
| 14:00 | PROBLEM OF MEASURING THERMAL CONDUCTIVITY OF POLYURETHANE THERMAL INSULATION OF LIQUID HYDROGEN TANKS FOR |
| | LAUNCH VEHICLE IN OPERATIONAL ENVIRONMENT |
| | Sergey Kravchenko, Nikolaj Kuleshov, Natalia Panova, Ugis Cabulis, Romass Pauliks, Vladimir Shestakov, Sergey Bratarchuk |
| | SIA Cryogenic and vacuum systems, Latvia; Riga Technical University, Latvia; Latvian State Institute of Wood Chemistry, Latvia; Ventspils University of Applied |
| | Sciences, Latvia |

| Time | Presentetion title and authors |
|---------|--|
| (UTC+3) | |
| 14:20 | PRODUCTION OF SEAWEED DERIVED BIOPLASTICS |
| | <u>Uldis Zaimis</u> , Sintija Ozolina, Roberts Jurmalietis |
| | Liepaja University, Latvia |
| 14:40 | EFFECT OF VARIABLE RATE SEEDING ON WINTER WHEAT SEEDBED AND GERMINATION PARAMETERS USING SOIL APPARENT |
| | ELECTRICAL CONDUCTIVITY |
| | Marius Kazlauskas, Egidijus Sarauskis, Kestutis Romaneckas, Dainius Steponavicius, Algirdas Jasinskas, Vilma Naujokiene, Indre Bruciene, Tadas |
| | Ziogas, Dovydas Vaicekauskas, Justinas Anusauskas, Abdul Mounem |
| | Vytautas Magnus University, Lithuania; Ghent University, Belgium |
| 15:00 | ENERGY CONSUMPTION BY SOLAR-POWERED WATERCRAFT AT VARIOUS SPEED SETTINGS |
| | <u>Dainis Berjoza</u> , Inara Jurgena, Vitalijs Osadcuks |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 15:20 | WELDING WORK ORGANISATION IN SERIAL PRODUCTION |
| | Gunars Verdins, Kristine Elere |
| | Latvia University of Life Sciences and Technologies, Latvia; Bucher Municipal Ltd, Latvia |
| 15:40 | LOCATION AND IDENTIFICATION OF OAK WOOD DEFECT BY DEEP LEARNING |
| | Gints Romanovskis, Karlis Bumanis, Gundars Kulikovskis, Peteris Rivza |
| | Latvia University of Life Sciences and Technologies, Latvia; Forest and Wood Products Research and Development Institute, Latvia; SIA Zippy Vision, Latvia |

Section 5. Renewable and conventional energy, GHG emission and waste management

Date: 27.05.2021

Moderator: Liene Kancevica

liene.kancevica@llu.lv

Regulations: presentation – 15 min, discussion – 5 min

Zoom Meeting ID: 2462740582 Passcode: 881718 Faculty of Engineering
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20th International Scientific
Conference
Engineering for Rural
Development

26.-28.05.2021 Jelgava, LATVIA

Zoom Meeting link: https://zoom.us/j/2462740582?pwd=SkxxdnEvbitZQk9oK2JUa3lOSmdhUT09

| Time (UTC+3) | Presentetion title and authors |
|--------------|---|
| 10:40 | LONG-TERM MEASUREMENTS OF ENERGY PRODUCTION OF SOLAR PHOTOVOLTAIC PANELS |
| 10.40 | Ilze Pelece, Adolfs Rucins, Semjons Ivanovs |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 11:00 | HEAT RECOVERY IN HYBRID FLASH/ORC POWER PLANTS |
| 11.00 | Andriy Redko, Adam Ujma, Anna Pavlovska, <u>Yurii Burda</u> , Volodymyr Andoniev |
| | Kharkiv National University of Construction and Architecture, Ukraine; Czestochowa University of Technology, Poland |
| 11:20 | ACTIVATED COMBUSTION OF BIOMASS BLENDS BY MICROWAVE PRE-TREATMENT OF STRAW |
| 11.20 | Linards Goldsteins, Raimonds Valdmanis, Maija Zake |
| | Institute of Physics, University of Latvia, Latvia |
| 11:40 | MICROWAVE PRE-TREATED WHEAT STRAW PELLETS AS ADDITIVE FOR ACTIVATION OF THERMAL DECOMPOSITION OF BIOMASS |
| 11.40 | BLENDS |
| | Raimonds Valdmanis, <u>Linards Goldsteins</u> , Alexandr Arshanitsa, Anna Andersone |
| | Institute of Physics, University of Latvia, Latvia; EkoKompozit Ltd, Latvia; Latvian State Institute of Wood Chemistry, Latvia |
| 12:00 | NON-ISOTHERMAL THERMAL ANALYSIS OF DIFFERENT ORIGINATED LIGNOCELLULOSIC BIOMASS, NON-TREATED AND TORREFIED BY |
| 12.00 | MICROWAVE TREATMENT |
| | Alexandr Arshanitsa, Anna Andersone, Galina Telysheva |
| | Latvian State Institute of Wood Chemistry, Latvia; EkoKompozit Ltd, Latvia |
| 12:20 | ENHANCING ENZYMATICALY TREATED HAY SUBSTRATE BIOMETHANE POTENTIAL USING BIODEGRADABLE SURFACTANTS |
| 12.20 | Eriks Skripsts, Linda Mezule, Elvis Klaucans, Estere Romanovska |
| | Riga Technical University, Latvia; Bio RE, Ltd., Latvia |
| 12:40 | INVESTIGATION OF FERMENTATION CHAMBER THERMAL CONDITION PARAMETERS |
| 12.40 | Marina Tereshchuk, Yaroslav Mykhailovych, <u>Nataliya Tsyvenkova</u> , Anna Holubenko |
| | Zhytomyr National Agroecological University, Ukraine; National University of Life and Environmental Sciences of Ukraine, Ukraine; Polissia National |
| | University, Ukraine |
| 13:00 | Lunch |
| 13:40 | LIVESTOCK MANURE USE FOR BIOGAS PRODUCTION IN LATVIA |
| 13.70 | Juris Priekulis, Olga Frolova, Laima Berzina, Armins Laurs |
| | Latvia University of Life Sciences and Technologies, Latvia |
| | Laria Ourcisus of the Sciences and Technologies, Laria |

| Time (UTC+3) | Presentetion title and authors |
|--------------|--|
| 14:00 | INVESTIGATION OF PHYSICAL-MECHANICAL AND ENERGY PROPERTIES OF GRANULATED CEREAL PLANT WASTE AND ASH OBTAINED |
| | BY INCINERATION OF PRODUCED BIOFUEL |
| | Algirdas Jasinskas, Justinas Skruodys, Rolandas Domeika, Ramunas Mieldazys, Nerijus Pedisius |
| | Vytautas Magnus University, Lithuania; Lithuanian Energy Institute, Lithuania |
| 14:20 | EVALUATING POTENTIAL OF ORGANIC CARBON PRODUCTION FROM FIBER HEMP BIOMASS |
| | Egidijus Zvicevicius, <u>Kestutis Ziura</u> , Zivile Cerniauskiene, Vita Tilvikiene |
| | Vytautas Magnus University, Lithuania; Lithuanian Research Centre for Agriculture and Forestry, Lithuania |
| 14:40 | EXTRACTION OF DIGESTATE FROM VARIOUS RAW MATERIALS AND ITS MIXTURES WITH ASH |
| | Vilis Dubrovskis, <u>Imants Plume</u> , Aleksandrs Adamovics |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 15:00 | METHANE POTENTIAL FROM HOUSEHOLD GARDEN LEAVES |
| | Vilis Dubrovskis, <u>Imants Plume</u> |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 15:20 | ANAEROBIC FERMENTATION OF COW MANURE AND WHEAT STRAW IN LOW VOLTAGE ELECTRIC FIELD |
| | Imants Plume, Vilis Dubrovskis |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 15:40 | COVID-19 IMPACT ON DEVELOPMENT OF RENEWABLE ENERGY FACILITIES IN RURAL REGIONS IN EU |
| | <u>Vladislav Zavadskiy</u> , Gita Revalde |
| | Almaty University of Power Engineering and Telecommunication, Kazakhstan; Riga Technical University, Latvia |
| 16:00 | Break |
| 16:20 | PRODUCTIVITY AND CARBON DIOXIDE (CO2) EMISSIONS OF COMPACT CLASS VIMEK 404 T5 HARVESTER IN THINNING OF YOUNG BIRCH |
| | STANDS IN AFFORESTED CROPLAND |
| | Andis Lazdins, Santa Kaleja, Agris Zimelis, Gints Spalva, Andis Bardulis |
| | Latvian State Forest Research Institute "Silava", Latvia |
| 16:40 | EVALUATION OF MIDDLE TERM GREENHOUSE GAS (GHG) MITIGATION POTENTIAL OF BIRCH PLANTATIONS WITH MINERAL AND |
| | ORGANIC SOILS |
| | Andis Lazdins, Guntars Snepsts, Aldis Butlers, Dana Purvina, Zaiga Anna Zvaigzne, Ieva Licite |
| | Latvian State Forest Research Institute "Silava", Latvia |
| 17:00 | INFLUENCE OF WOOD CHIP QUALITY ON BOILER HOUSE EFFICIENCY |
| | Agate Klavina, Raimunds Selegovskis |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 17:20 | APPLICATION OF CRYOGENIC ENERGY STORAGE (CES) IN DISTRIBUTED RENEWABLE GENERATION |
| | <u>Dmitrijs Rusovs</u> , Lubova Parsikova |
| | Riga Technical University, Latvia |

Section 6. Modelling and simulation

Date: 27.05.2021 **Aivars Aboltins** Moderator:

Zoom Meeting ID:

Passcode:

aivars.aboltins@llu.lv

Regulations: presentation -15 min, discussion -5 min

2436995670

RW3iuA

Faculty of Engineering Latvia University of Life Sciences and Technologies Latvia Academy of Agricultural and Forest Sciences, Section of Engineering









Conference **Engineering for Rural** Development

26.-28.05.2021 Jelgava, LATVIA



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| Time | Presentetion title and authors |
|---------|---|
| (UTC+3) | |
| 10:40 | MODELING OF WATER FLOW FOR WATERJET PROPULSION SYSTEM |
| | Marina Cerpinska, Martins Irbe, Andrejs Pupurs, Kaspars Burbeckis |
| | Riga Technical University, Latvia |
| 11:00 | TRANSLATIONAL VIBRATIONS OF FLAT PLATE WITH ELASTIC SUSPENSION IN AIR FLOW |
| | Marina Cerpinska, Grigory Panovko, Shravan Koundinya Vutukuru, Janis Viba, Martins Irbe |
| | Riga Technical University, Latvia; Russian Academy of Sciences, Russia |
| 11:20 | ACTION OF PENDULUM IN TRANSIENT FLUID FLOW |
| | Igors Tipans, Janis Viba, <u>Shravan Koundinya Vutukuru</u> , Martins Irbe |
| | Riga Technical University, Latvia |
| 11:40 | SOARING MOTION OF VIBRATING DRIVE OBJECT IN FLUID |
| | Edgars Kovals, Maris Eiduks, Kristaps Spade, Janis Viba, Kaspars Burbeckis |
| | Riga Technical University, Latvia |
| 12:00 | ON OBTAINING NUMERICAL SOLUTIONS FOR SOME REACTING FLOW PROBLEMS BY USING DIFFERENT MATLAB TOOLS |
| | <u>Maksims Marinaki</u> |
| | Institute of Mathematics and Computer Science, University of Latvia, Latvia |
| 12:20 | DESIGNING OF CATAMARAN HULL SPINE BEAM |
| | Alexander Janushevskis, <u>Jaymin-Vrajlal Sanchaniya</u> , Sanjay-Rajni Vejanand |
| | Riga Technical University, Latvia |
| 12:40 | SIMULATION OF FIBRE REINFORCED CONCRETE STRUCTURAL FAILURE BASED ON BENDING TEST RESULTS |
| | <u>Ulvis Skadins,</u> Mareks Bokta |
| | Latvia University of Life Sciences and Technologies, Latvia |
| 13:00 | Lunch |
| 13:40 | SOLID WOOD SURFACE MODIFICATION BY CHARRING AND ITS IMPACT ON REACTION TO FIRE PERFORMANCE |
| | Edgars Buksans, <u>Laura Laiveniece</u> , Valters Lubinskis |
| | Forest and Wood Products Research and Development Institute, Latvia; Pavasars wood constructions Ltd, Latvia |
| 14:00 | WOOD ONE-SIDE SURFACE CHARRING OF TIMBER FOR CLADDINGS OR RECYCLED WOOD |
| | Andris Morozovs, Laura Laiveniece, Valters Lubinskis |
| | Latvia University of Life Sciences and Technologies, Latvia; Forest and Wood Products Research and Development Institute, Latvia; Pavasars wood constructions |
| | Ltd, Latvia |

| Time | Presentetion title and authors |
|---------|---|
| (UTC+3) | |
| 14:20 | SOLUTIONS OF NONLINEAR BOUNDARY VALUE PROBLEM WITH APPLICATIONS TO BIOMASS THERMAL CONVERSION |
| | Armands Gritsans, Andrei Kolyshkin, Diana Ogorelova, Felix Sadyrbaev, Inna Samuilik, Inara Yermachenko |
| | Daugavpils University, Latvia; Riga Technical University, Latvia; Institute of Mathematics and Computer Science, University of Latvia, Latvia |
| 14:40 | SOME NETWORK MODELS RELATED TO HEAT AND MASS TRANSFER DURING THERMAL CONVERSION OF BIOMASS |
| | <u>Uldis Strautins</u> , Laura Leja |
| | Institute of Mathematics and Computer Science, University of Latvia, Latvia |
| 15:00 | ON MODELLING OF COMPLEX NETWORKS |
| | Svetlana Atslega, Felix Sadyrbaev, Inna Samuilik |
| | Institute of Mathematics and Computer Science, University of Latvia, Latvia; Latvia University of Life Sciences and Technologies, Latvia; Riga Technical |
| | University, Latvia; Daugavpils University, Latvia |
| 15:20 | SPECIAL AVERAGING METHOD FOR SOLVING SOME 3-D HEAT TRANSFER PROBLEMS |
| | Aivars Aboltins, <u>Ilmars Kangro</u> , Harijs Kalis |
| | Latvia University of Life Sciences and Technologies, Latvia; Rezekne Academy of Technologies, Latvia; Institute of Mathematics and Computer Science, University |
| | of Latvia, Latvia |
| 15:40 | ANALYSIS OF DRYING PROCESS OF SEA BUCKTHORN (HIPPOPHAE RHAMNOIDES L.) BERRIES |
| | Egidijus Zvicevicius, Ausra Cipliene, Algirdas Raila, Aurelija Paulauskiene |
| | Vytautas Magnus University, Lithuania |
| 16:00 | NETWORK MODEL FOR THERMAL CONVERSION OF HETEROGENEOUS BIOMASS GRANULES |
| | <u>Laura Leja</u> , Uldis Strautins |
| | University of Latvia, Latvia; Institute of Mathematics and Computer Science, University of Latvia, Latvia |
| 16:20 | NECESSITY AND WAYS TO INCREASE ADAPTIVE POTENTIAL OF DRIED LAND IN CHANGEABLE CLIMATIC CONDITIONS |
| | Anatoly Rokochynskiy, Yury Mazhayskiy, Pavlo Volk, Jerzy Yeznah, Aliaksandr Volchak, Aleh Meshyk, Olga Chernikova, Nataliia Prykhodko |
| | National University of Water and Environmental Engineering, Russia; All-Russian Research Institute of Hydrotechnics and Melioration named after A.N. |
| | Kostyakova, Russia; Warsaw University of Life Sciences, Poland; Brest State Technical University, Belarus; Academy of Law Management of the Federal Penal |
| | Service of Russia, Russia |

Section 7. Engineering economics and education

Date: 27.05.2021 Moderator: Baiba Briede

baiba.briede@llu.lv

Regulations: presentation – 15 min, discussion – 5 min

Zoom Meeting ID: 4268445387 Passcode: 667540 Faculty of Engineering
Latvia University of Life Sciences and Technologies
Latvia Academy of Agricultural and Forest Sciences,
Section of Engineering









has the pleasure to invite you to attend
20th International Scientific
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| Time (UTC+3) | Presentetion title and authors |
|--------------|--|
| 10:40 | STUDY IN POSSIBILITIES OF PROFESSIONAL ORIENTATION IN TRAINING OF SPECIALISTS IN AGRARIAN AND TECHNICAL UNIVERSITIES |
| | Stanislav Nikolaenko, Oksana Bulgakova, Valentina Vasileva, Ilmars Dukulis, Lesia Zbaravska |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; University of Ruse Angel Kanchev, Bulgaria; Latvia University of Life Sciences and |
| | Technologies, Latvia; State Agrarian and Engineering University in Podillia, Ukraine |
| 11:00 | SOCIAL AND POLITICAL SENTIMENTS OF SCIENTIFIC AND PEDAGOGICAL WORKERS OF HIGHER SCHOOL OF UKRAINE IN THE PERIOD OF |
| | PARTIAL DEMOCRATIC CHANGES IN THE LATE 1950 |
| | Oksana Bulgakova |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine |
| 11:20 | MATHEMATICS RESULTS OF LATVIA FIRST YEAR ENGINEERING STUDENTS AT REMOTE STUDIES AND COVID PANDEMIA TIME |
| | Evija Kopeika, Liga Zvirgzdina |
| | Riga Technical University, Latvia; Latvia University of Life Sciences and Technologies, Latvia |
| 11:40 | CHALLENGES AND BENEFITS OF REMOTE LEARNING IN CONTEXT OF COMPETENCE DEVELOPMENT OF ENGINEERING STUDENTS DURING |
| | COVID-19 PANDEMIC |
| | Anna Vintere, Eve Aruvee, Daiva Rimkuviene |
| | Latvia University of Life Sciences and Technologies, Latvia; Estonian University of Life Sciences, Estonia; Vytautas Magnus University, Lithuania |
| 12:00 | PROBLEMS AND SOLUTIONS OF ACQUIRING MATHEMATICAL KNOWLEDGE AT UNIVERSITY DURING COVID-19 CRISIS |
| | Natalija Sergejeva, Svetlana Atslega, Aivars Aboltins |
| | Latvia University of Life Sciences and Technologies, Latvia; Institute of Mathematics and Computer Science, University of Latvia, Latvia |
| 12:20 | ENGINEERING COMPETENCES OF UNIVERSITY GRADUATES: VIEW OF EMPLOYERS AND YOUNG SPECIALISTS |
| | Inna Krutko, Natalia Popova |
| | Ural Federal University, Russia |
| 12:40 | CHALLENGES IN TEACHING-LEARNING HIGHER MATHEMATICS REMOTELY AT RIGA TECHNICAL UNIVERSITY IN COVID-19 PANDEMIC |
| | <u>Ilona Dzenite</u> , Sarmite Cernajeva, Elena Ligere |
| | Riga Technical University, Latvia |
| 13:00 | Lunch |
| 13:40 | STUDY OF EFFECTIVENESS OF EDUCATIONAL COMMUNICATION IN THE PROCESS OF DISTANCE LEARNING OF AGRICULTURAL |
| | ENGINEERS |
| | Stanislav Nikolaenko, Maria Bondar, <u>Oksana Bulgakova</u> , Lyubov Shymko, Ilmars Dukulis |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; Latvia University of Life Sciences and Technologies, Latvia |

| Time | Presentetion title and authors |
|---------|--|
| (UTC+3) | |
| 14:00 | STUDYING REQUIREMENTS FOR SUBSTANTIONAL LIST OF PROFESSIONAL KNOWLEDGE FOR STUDENTS OF AGRICULTURAL |
| | ENGINEERING SPECIALITIES |
| | Stanislav Nikolaenko, Maria Bondar, <u>Oksana Bulgakova</u> , Valentina Vasileva, Kaspars Vartukapteinis |
| | National University of Life and Environmental Sciences of Ukraine, Ukraine; University of Ruse Angel Kanchev, Bulgaria; Latvia University of Life Sciences and |
| | Technologies, Latvia |
| 14:20 | WASTE MANAGEMENT WITHIN CONTEXT OF URBAN SUSTAINABLE DEVELOPMENT: BIBLIOMETRIC ANALYSIS |
| Ì | Regina Veckalne, Tatjana Tambovceva |
| | Riga Technical University, Latvia |
| 14:40 | RISKENESS OF PUBLIC-PRIVATE PARTNERSHIP CONCEPT |
| | Radan Tomek |
| | Czech Technical University in Prague, Czech Republic |
| 15:00 | REGIONAL CENTRE DEVELOPMENT MANAGEMENT FACTORS: CASE STUDY OF LIEPAJA |
| | Andris Ozols, Valdis Avotins |
| | Riga Technical University, Latvia; Riga Photonics Centre, Latvia |
| 15:20 | STRATEGIC PLANNING IN PROCESS OF ADAPTING CITIES TO CLIMATE CHANGE |
| | Anastasiya Les, Anastasia Rashchenko, Nataliya Tsyvenkova, Tetyana Les |
| | Zhytomyr National Agroecological University, Ukraine; National University of Life and Environmental Sciences of Ukraine, Ukraine; Polissia National |
| | University, Ukraine |
| 15:40 | IMPROVEMENT OF MICROLEARNING WITH HELP OF LEARNING ANALYTICS IN ENTERPRISES |
| | <u>Uldis Zandbergs</u> , Janis Judrups, Elina Plane, Raitis Uscins |
| | Baltic Computer Academy Ltd, Latvia; Tet, Latvia |
| 16:00 | Break |
| 16:20 | MACHINE LEARNING BASED SOLUTION FOR PREDICTING VOLUNTARY EMPLOYEE TURNOVER IN ORGANIZATION |
| | Janis Judrups, Ronalds Cinks, Ilze Birzniece, Ilze Andersone, Uldis Zandbergs |
| | Baltic Computer Academy Ltd, Latvia; University of Latvia, Latvia; Riga Technical University, Latvia |
| 16:40 | USE OF STANFORD2010 DATA FOR DETERMINATION OF EFFECT OF HARVESTER OPERATOR PERIODIC TRAINING ON PRODUCTIVITY AND |
| | FUEL ECONOMY |
| | Aigars Strubergs, Andis Lazdins, Linards Sisenis |
| | Latvia University of Life Sciences and Technologies, Latvia; Latvian State Forest Research Institute "Silava", Latvia |
| 17:00 | ANALYSIS AND OUTLOOK OF DAIRY SECTOR IN BALTIC STATES |
| | Aleksandra Rizojeva-Silava, Sandija Zeverte-Rivza, Peteris Rivza |
| | Latvia University of Life Sciences and Technologies, Latvia |