

## Biosystems Engineering 2017, SCHEDULE

Day	Time				
<b>Thursday 11.05.2017</b>	9.00 – 10.00	<b>Registration and morning coffee</b> (Estonian University of Life Sciences, Institute of Technology, 56 Kreutzwaldi Str., Tartu) Room A202			
	10.00 – 10.10	<b>OPENING:</b> (Institute of Technology, room A204) <b>Prof. Ülo Niinemets</b> (Institute of Agricultural and Environmental Sciences, member of academic board of EULS, full member of Estonian Academy of Sciences) Opening remarks and welcome: Director of Institute of Technology <b>Margus Arak</b>			
		<b>PLENARY SESSION</b> (Institute of Technology, room A204):			
	10.10 – 10.40	Tillage and traffic systems for improved soil management – <b>Prof. Richard Godwin</b> , Harper Adams University, United Kingdom			
	10.40 – 11.10	The potential of bio-methanol as a transportation fuel – <b>Associate Prof. Martin Tunér</b> , Lund University, Sweden			
	11.10 – 11.40	Low capital intensive biomass processing leads to increased employment – <b>Prof. Emeritus Johan Sanders</b> , Wageningen University, Netherlands			
	11.40 – 12.10	Ergonomics – key to sustainable workers and organisations – <b>Prof. Mikael Forsman</b> , Karolinska Institutet, Stockholm County Council, Sweden			
	12.10 – 13.30	<b>LUNCH</b> Institute of Technology, room B135			
		<b>PRODUCTION ENGINEERING</b>  (Institute of Technology, room B200)  Chair: <b>Dr Alexander Liyvapuu</b>	<b>BIOENERGY</b>  (Institute of Technology, room A204)  Chair: <b>Prof Emer Johan Sanders</b>	<b>PRECISION AGRICULTURE</b>  (Institute of Technology, room B119)  Chair: <b>Ass. Prof Merrit Shanskiy</b>	<b>LIVESTOCK ENGINEERING</b>  (Institute of Technology, room A310)  Chair: <b>Prof Marek Gaworski</b>
		Measurement of weld joint parameters and their mathematical modelling – <b>D. Novák</b> , P. Kvasnová, J. Volf and V. Novák: Slovakia/Czech Republic	Physical properties of wastes from furniture industry for energy purposes – <b>M. Dąbrowska-Salwin</b> , D. Raczowska and A. Świętochowski: Poland	Energy balance in production of chickpea in Turkey: A study performed in Adiyaman Province – <b>M.F. Baran</b> , and O. Gökdoğan: Turkey	Effect of construction shape and materials on indoor microclimatic conditions inside the cowsheds in dairy farms – <b>P. Kic</b> : Czech Republic
		Investigation of coaxial laser cladding process parameters influence onto single pass clad geometry of tool steel – <b>S. Locs</b> , I. Boiko, P. Drozdovs, J. Dovoreckis and O. Devoyno: Latvia	Tropical waste biomass potential for solid biofuels production – <b>A. Brunerová</b> , J. Malat'ák, M. Müller, P. Valášek and H. Roubík: Czech Republic	Energy balance of sunflower production – <b>S. Akdemir</b> , C. Chavalari and T. Gemtos: Turkey/Greece	Determination of poultry house indoor heating and cooling days using degree-day method – E. Kucuktopcu, <b>B. Cemek</b> and P. Banda: Turkey
		Contactless measurement and evaluation machined surface	Reed canary grass cultivation's energy efficiency and fuel quality –	Influence of manure and activators of organic matter biological transformation on selected soil physical	Evaluating thermal performance of experimental building solutions designed for livestock housing: the effect of

		roughness using laser profilometry – J. Ruzbarsky and <b>G. Mital</b> : Slovakia	A. Annuk, A. Allik, K. Annuk and <b>M. Hovi</b> : Estonia	properties of <i>Modal Luvisol</i> – <b>P. Šařec</b> and P. Novák: Czech Republic	greenery systems – L. Leso, W. Morshed, L. Conti and <b>M. Barbari</b> : Italy
		Evaluation of quality and efficiency of ventilation equipment by scanning electron microscopy – <b>M. Hromasová</b> , P. Kic, M. Müller and M. Linda: Czech Republic	Straw pellet combustion and emission characteristics evaluation on industrial 2MW pellet boiler – <b>G. Kabišius</b> , K. Buinevičius, J. Mockuvienė and R. Mažeika: Lithuania	Human urine as an efficient fertilizer product in agriculture – <b>J. Nagy</b> and A. Zseni: Hungary	Supply of wood as environmental enrichment material to post-weaning piglets – M. Barbari, L. Conti, <b>G. Rossi</b> and S. Simonini: Italy
		Band structures for binding and holding of objects made from recycled metallic materials – <b>M. Lisicins</b> , I. Boiko, V. Mironovs and V. Zemcenkovs: Latvia	Utilization of waste biomass from post-harvest lines in the form of briquettes for energy production – <b>A. Brunerová</b> , M. Brožek and M. Müller: Czech Republic	System design and economics of Controlled Traffic Farming in grass silage production – <b>Sven Peets</b> , W.C.T. Chamen, R.J. Godwin, D.R. White, P.A. Misiewicz, P.R. Hargreaves: United Kingdom	Sand losses out the pens in barn with free-stall housing system – Á.G.F. Rocha and <b>M. Gaworski</b> : Brazil/Poland
				Agricultural field production in an “Industry 4.0.” concept – <b>M.H. Jørgensen</b> : Denmark	
	<b>15.10 – 15.50</b>	<b>COFFEE BREAK</b> , room B135			
	<b>15.50 – 17.30</b>	<b>PRODUCTION ENGINEERING</b>  (Institute of Technology, room B200)  Chair: <b>Dr Tõnu Leemet</b>	<b>BIOENERGY</b>  (Institute of Technology, room A204)  Chair: <b>Prof Alexander Jäger</b>	<b>AGRICULTURAL ENGINEERING</b>  (Institute of Technology, room B119)  Chair: <b>Prof Richard Godwin</b>	<b>ECONOMICS</b>  (Institute of Technology, room A310)  Chair: <b>Dr Iivi Riivits-Arkonsuo</b>
		Mechanical properties of resin reinforced with glass beads – <b>M. Müller</b> : Czech Republic	Carbon stock changes in drained arable organic soils in Latvia: results of a pilot study – A. Lupikis, <b>A. Bardule</b> , A. Lazdins, J. Stola and A. Butlers: Latvia	Comparison of constant and adjustable drawbar for a domestic horticulture tractor – G. Yilmaz, U. Çakırlar, <b>B. Akdemir</b> : Turkey	Unified client service centres for rural development and smart governance in Latvia – <b>L. Sunina</b> and B. Rivza: Latvia
		Mathematical model describing the drying curves of false banana’s fibre ( <i>Ensete ventricosum</i> ) – <b>Č. Mizera</b> , D. Herák and P. Hrabě: Czech Republic	Comparative study of oil palm fruit bunch processing in Nigeria – <b>K. E. Anyaoha</b> , A. M. Mouazen and K. Patchigolla: United Kingdom/Belgium	PID control for sprayer sections under laboratory conditions – H. Karadöl, <b>S. Arslan</b> and A. Aybek: Turkey	Regulatives for biorefineries – <b>V. Hönig</b> , Z. Linhart, P. Procházka and K. Pernica: Czech Republic
		Influence of sisal fibres on tribological properties of epoxy composite systems – <b>P. Valášek</b> and K. Habrová: Czech Republic	Hydrolysed biomass waste as a potential biosorbent of zinc from water – <b>K. Tihomirova</b> , V. Denisova, L. Jaudzema and L. Mezule: Latvia	Comparison of selected remote sensing sensors for crop yield variability estimation – <b>K. Křížová</b> and J. Kumhálová: Czech Republic	Some factors affecting the efficiency of potato production, under Al-Ghab plain conditions, Syrian Arab Republic – A. Murjan, <b>P. Prochazka</b> , V. Hönig and K. Pernica: Czech Republic
		Determining the specific heat capacity and thermal conductivity for adjusting boundary conditions of FEM model – <b>A. Kešner</b> , R.	Impact of clearfelling on dissolved nitrogen content in soil-, ground-, and surface waters: initial results from a study in Latvia – <b>Z. Libiete</b> ,	Determining the dimensional characteristics of blueberries – <b>K. Soots</b> , O. Krikmann, M. Starast and J. Olt: Estonia	Fair Trade and socially responsible production – whose duty? Estonian consumers’ attitudes and beliefs – <b>I.</b>

		Chotěborský and M. Linda: Czech Republic	A. Bardule, S. Murniece and A. Lupikis: Latvia		<b>Riivits-Arkonsuo</b> , M. Ojasoo, A. Leppiman, K. Mänd: Estonia
		Wear and stress analysis of chisel – <b>R. Chotěborský</b> , M. Linda and M. Hromasová: Czech Republic	Wood ash – green energy production side product as fertilizer for vigorous forest plantations – D. Lazdiņa, <b>I. Bebre</b> , K. Dūmiņš, I. Skrandā, A. Lazdins, J. Jansons and S. Celma: Latvia	Land use/land cover change modelling of Ergene River Basin in western Turkey using CORINE land use/land cover data – <b>F. Konukcu</b> , S. Albut and B. Alturk: Turkey	Knowledge Based Economic Growth Started to be a Rural Development Phenomenon in Latvia – B. Rivža, M. Kruzmetra and <b>V. Zaluksne</b> : Latvia
		Key machining parameters influencing residual stresses – M. Polma, <b>T. Leemet</b>		Solution for automated bee colony weight monitoring – <b>A. Zacepins</b> , A. Pecka, V. Osadcuks, A. Kviessis and S. Engel: Latvia/USA	Current Trends in the Development of Latvian Agricultural Holdings and GHG Emission Mitigation Possibilities – <b>D. Popluga</b> , A. Lēneris, D. Kreišmane and P. Rivža: Latvia
	<b>19.00</b>	<b>WELCOME DINNER HOSTED BY MAYOR OF TARTU</b> (Tartu Environmental Education Centre, 10 Lille Str.) <a href="http://www.tartuloodusmaja.ee/en">http://www.tartuloodusmaja.ee/en</a> From Institute of Technology to Loodusmaja: <a href="https://goo.gl/maps/G7ZDtANnLws">https://goo.gl/maps/G7ZDtANnLws</a>			
<b>Friday 12.05.2017</b>	<b>9.00 – 10.00</b>	<b>Morning coffee</b> (Estonian University of Life Sciences, Institute of Technology, 56 Kreutzwaldi Str., Tartu) Room B135			
	<b>10.00- 12.40</b>	<b>RENEWABLE ENERGY</b>  (Institute of Technology, room B200)  Chair: <b>Prof Andres Annuk</b>	<b>BIOENERGY</b>  (Institute of Technology, room A204)  Chair: <b>Prof Emer Johan Sanders</b>	<b>PRECISION AGRICULTURE</b>  (Institute of Technology, room B119)  Chair: <b>Prof Martin H. Jorgensen</b>	<b>LIVESTOCK ENGINEERING</b>  (Institute of Technology, room A310)  Chair: <b>Prof Pavel Kic</b>
		Development and testing of apparatus for wooden chips voids measurement – <b>V. Křepčík</b> , J. Lev and F. Kumhála: Czech Republic	Evaluation of the inline stripping of ethanol during cyanobacteria cultivation in a bubble column bioreactor – <b>A. Jäger</b> , C. Nicoletti and K. Krennhuber: Austria/Italy	The yield, height and content of protein of field peas ( <i>Pisum sativum</i> L.) in Estonian agro-climatic conditions – <b>M. Olle</b> : Estonia	Evaluation and optimization of milking in some Polish dairy farms differed in milking parlours – <b>M. Gaworski</b> , N. Kamińska and P. Kic: Poland/Czech Republic
		Dry sorption stabilization of flue gases in biological waste incinerating facility with heating power under 5 MW – <b>P. Jirsa</b> and J. Malaták: Czech Republic	Alcohol recovery from fermentation broth with gas stripping: system experimental and optimisation – <b>M. Strods</b> and L. Mezule: Latvia	Strawberry Leaf Surface Temperature Dynamics Measured by Thermal Camera in Night Frost Conditions – E. Kokin, <b>M. Pennar</b> , V. Palge, K. Jürjenson and H. Tamm: Estonia	Effect of altitude and vacuum pressure on flow rate of vacuum pumps on milking machines driven by gasoline engine and a generator – <b>H. Unal</b> , S. Arslan and H. Erdogan: Turkey
		The use of unsteady method for determination of thermal conductivity of porous construction materials in real conditions – P. Neuberger and <b>P. Kic</b> : Czech Republic	Technical solutions used in different pretreatments of lignocellulosic biomass: a review – <b>V. Rooni</b> , M. Raud and T. Kikas: Estonia	Development and implementation of data collection technologies for digital mapping of soil electric conductivity – <b>M. Kroulik</b> , P. Zabransky, J. Holub and J. Chyba: Czech Republic	Method of designing of manure utilization technology – A. Briukhanov, <b>I. Subbotin</b> , R. Uvarov and E. Vasilev: Russia
		Seabed sediment – a natural seasonal heat storage feasibility	Second-generation bioethanol production: A review of strategies	The effects of different nitrogen doses and irrigation levels on yield and	Effect Of Slurry Lagoon Redesign On Reduction Of Ammonia Emission

		study – <b>A. Mäkiranta</b> , B. Martinkauppi and E. Hiltunen: Finland	for waste valorisation – <b>L. Rocha–Meneses</b> , M. Raud, K. Orupõld and T. Kikas: Estonia	plant water consumption of silage corn – <b>M. Kaplan</b> , H. Ali Irik and A. Unlukara: Turkey	During Livestock Manure Storage – <b>A. Aboltins</b> , J. Priekulis, B. Aboltina and L. Melece: Latvia
		Endurance LiFePO <sub>4</sub> battery testing – <b>S. Papezova</b> and V. Papez: Czech Republic	Biogas and hydrogen production from glycerol by <i>Enterobacter aerogenes</i> and anaerobic microbial communities – <b>M. Paiders</b> , A. Gruduls, L. Kalnina, S. Valucka, I. Dimanta, J. Kleperis, and V. Nikolajeva: Latvia	Crop Coefficients for Pumpkin Seed Plants – H. Kirnak, <b>H. A. Irik</b> , A. Unlukara and M. Yilmaz: Turkey	Effect of different air velocities on convective thin-layer drying of alfalfa for livestock feeding – <b>P. Kic</b> : Czech Republic
		Contribution of pumped hydro energy storage for more RES utilization on autonomous power systems – Y. Katsiagiannis, A. Annuk, <b>E. Jõgi</b> and E.S. Karapidakis: Greece/Estonia	Suitability of oat bran for methane production – <b>V. Dubrovskis</b> and I. Plume: Latvia	Effects of Irrigations Applied at Different Growth Stages on Chickpea Yield – H. Kirnak, <b>İ. Serkan Varol</b> , H. Ali Irik, H. Özaktan: Turkey	Evaluation of nutritional and physical values of pellets based on pea and lupine with added yeast in chickens fattening – <b>L. Chladek</b> , V. Plachy, P. Vaculik and P. Brany: Czech Republic
		Experimental evaluation of hydraulic design modifications of radial centrifugal pumps – <b>M. Polák</b> : Czech Republic	Biogas from wastes of pumpkin, marrow and apple – <b>V. Dubrovskis</b> and I. Plume: Latvia	The influence of agricultural traffic on soil infiltration rates – <b>J. Chyba</b> , M. Kroulík, K. Křištof and P.A. Misiewicz: Czech Republic/Slovakia/UK	Assessment of dairy cows herd indices associated with different milking systems – <b>M. Gaworski</b> , A. Leola, H. Kiiman, O. Sada, J. Priekulis and P. Kic: Poland/Estonia/Latvia/Czech Republic
		A dynamic model of electric resistor's warming and its verification by micro-thermocouples – M. Linda, G. Künzel and <b>M. Hromasová</b> : Czech Republic	Biomass combustion research studying the impact factors of NOx formation and reduction – <b>T. Sereika</b> , K. Buinevičius, E. Puida and A. Jančiauskas: Lithuania	Effect of Controlled Traffic Farming on Weed Occurrence – <b>M. Barát</b> , V. Rataj, Š. Týr, M. Macák and J. Galambošová: Slovakia	Mechanical qualities of adhesive bonds reinforced with biological fabric treated by plasma – <b>S. Petrášek</b> and M. Müller: Czech Republic
	<b>12.40 – 15.00</b>	<b>LUNCH AND POSTER SESSION</b> Institute of Technology, Estonian University of Life Sciences, 56 Kreutzwaldi Str, Tartu Room B135			
	<b>12.40 – 15.00</b>	<b>POSTERS</b>			
		<b>AGRICULTURAL ENGINEERING</b>			
		Effect of rake angle and cutting speed on energy demands of mulcher with vertical axis of rotation – <b>J. Čedík</b> , M. Pexa and R. Pražan: Czech Republic			
		Comparison of mechanical and electric drive of mulcher – M. Pexa, <b>J. Čedík</b> , F. Kumhála and R. Pražan: Czech Republic			
		Influence of shape of cutting tool on pressure conditions in workspace of mulcher with vertical axis of rotation – <b>J. Čedík</b> , J. Chyba, M. Pexa and S. Petrášek: Czech Republic			
		Comparison of tillage systems in terms of water infiltration into the soil during the autumn season – <b>S. Kovář</b> , J. Mašek and P. Novák: Czech Republic			
		Theoretical analysis of the technological process of hop drying – <b>A. Rybka</b> , P. Heřmánek and I. Honzík: Czech Republic			

		The next generation of multiple temperature sensor – J. Hart and V. Hartová: Czech Republic
		Different Soil Tillage and Shoot Length Effects on Vegetative Growth, Water Stress and Yield in cv. Cabernet Sauvignon ( <i>Vitis vinifera</i> L.) – <b>A. S. Yaşasin</b> , E. Bahar, Z. Coşkun, M. A.Kiraci, Y. Boz, A. Gündüz, G. G. Avci, M. Gülcü: Turkey
		Experimental chamber dryer for drying hops at low temperatures – <b>P. Heřmánek</b> , A. Rybka and I. Honzík: Czech Republic
		Critical velocity of solid mineral fertilizers in a vertical upward airstream and repose angle – <b>J. Hůla</b> , M. Kroulík and I. Honzík: Czech Republic
		Effect of different irrigation regimes on water use and vegetative growth parameters of walnut trees – S. Akin and <b>T. Erdem</b> : Turkey
		Classification of the soils formed in toposequence Kayi and Aydinpinar streams (Tekirdag) and classes of suitability to agricultural uses – <b>D. Boyraz Erdem</b> : Turkey
		Evaluation of soil compaction caused by passages of farm tractor in a forest in southern Italy – <b>G. Macri</b> , A. De Rossi, S. Papandrea, F. Micalizzi, D. Russo and G. Settineri: Italy
		Investigation of the influence of the parameters of the experimental spiral potato heap separator on the quality of work – V. Bulgakov, <b>S. Ivanovs</b> , V. Adamchuk and Y. Ihnatiev: Ukraine/ Latvia
		Investigation of the parameters of a root crop crusher – <b>S. Ivanovs</b> , P. Savinyh, A. Aleshkin, S. Bulatov and R. Smirnov: Latvia
		Influence of tied ridging technology on the rate of surface runoff and erosion in potato cultivation – <b>D. Vejchar</b> , M. Stehlik and V. Mayer: Czech Republic
		Terrain surface monitoring with IMU equipped mobile robot – <b>Z. Bártfai</b> , Z. Blahunka, D. Faust, L. Kátai and I. Szabó: Hungary
		Testing the adjustable drum belt sorter for blueberry fractionation – <b>K. Soots</b> and J. Olt: Estonia
		<b>PRECISION AGRICULTURE</b>
		Nitrogen and carbon release during decomposition of roots and shoots of leguminous green manure crops – <b>L. Talgre</b> , H. Roostalu, E. Mäeorg and E. Lauringson: Estonia
		Impact of the seeding and nitrogen fertilizer rates of spring wheat that is used as a cover crop on the yielding ability of tetraploid red clover stand established at different seeding rates – <b>A. Bender</b> : Estonia
		Agricultural use of unmanned aerial vehicles – <b>M. Şener</b> and E. Göçmen: Turkey
		The content of weed seeds in the soil based on the management system – J. Kuht, <b>V. Eremeev</b> , L. Talgre, H. Madsen, M. Toom, E. Mäeorg, E. Loit and A. Luik: Estonia
		Sustainable land use management and guide for GIS-based decision support system – <b>S. Albut</b> and F. Konukcu: Turkey
		Comparison of iodine application methods in Rocket Plant – <b>G. Aksu</b> , E. Teme and H. Altay: Turkey
		Nutrient status of the American cranberry in Latvia (2005–2016) – <b>A. Karlsons</b> and A. Osvalde: Latvia
		The effect of different pre-crops on <i>Rhizoctonia solani</i> complex in potato – R. Simson, L. Tartlan, E. Loit and <b>V. Eremeev</b> : Estonia
		Investigations about the impact of the sowing time and rate of the biomass yield and quality of industrial hemp – A. Adamovics, <b>S. Ivanovs</b> and V. Bulgakov: Latvia/Ukraine
		Fodder galega ( <i>Galega orientalis</i> Lam) grass potential as a forage and bioenergy crop – <b>H. Meripõld</b> , U. Tamm, S. Tamm, T. Võsa and L. Edesi: Estonia
		Assessment of the relationship between spectral indices from satellite remote sensing and winter oilseed rape yield – J.A. Domínguez, <b>J. Kumhálová</b> and P. Novák: Spain/ Czech Republic
		<b>BIOENERGY</b>
		Quantification of biogas potential from livestock waste in Vietnam – <b>H. Roubík</b> , J. Mazancová, L.D. Phun and D.V. Dung: Czech Republic/Vietnam
		Agricultural vs forest biomass: production efficiency and future trends in Polish conditions – M. Bloch-Michalik and <b>M. Gaworski</b>

		Biodiesel from tomato seed oil: transesterification and characterisation of chemical-physical properties – A.M. Giuffrè, <b>M. Capocasale</b> , C. Zappia and M. Poiana: Italy
		Biomass yield and chemical composition of <i>Phalaris arundinacea</i> L. using different rates of fermentation residue as fertiliser – <b>S. Rancane</b> , A. Karklins, D. Lazdina, P. Berzins, A. Bardule, A. Butlers and A. Lazdins: Latvia
		Influence of raw material properties on the quality of solid biofuel and energy consumption in briquetting process – <b>A. Muntean</b> , T. Ivanova, P. Hutla and B. Havrland: Czech Republic
		The economic sustainability of small-scale biogas plants in the Italian context: the case of the cover slab technology – <b>M. Collotta</b> and G. Tomasoni: Italy
		Nutrient supply in a short rotation coppice culture in Hungary – <b>O. Szabó</b> , G. Kovács, B. Heil: Hungary
		<b>ECONOMICS</b>
		Results of fifteen-year monitoring of winter oilseed rape ( <i>Brassica napus</i> L.) production in selected farm businesses of the Czech Republic from the viewpoint of technological and economic parameters – <b>O. Šařec</b> and P. Šařec: Czech Republic
		Evaluation of smart economy development in the RIGA planning region (LATVIA) – B. Rivža, <b>L. Āzena</b> and P. Rivža: Riga
		Risk analysis regarding a minimum annual utilization of combine harvesters in agricultural companies – <b>M. Mimra</b> and M. Kavka: Czech Republic
		Legumes in the diet of dairy cows from the economic perspective – <b>L. Proskina</b> and S. Cerina: Latvia
		The assessment of hazelnut mechanical harvesting productivity – <b>B. Bernardi</b> , J. Tous, S. Benalia, L.M. Abenavoli, G. Zimbalatti, T. Stillitano and A.I. De Luca: Italy/Spain
		Entrepreneurial activities of alumni and assessments on entrepreneurship education – the example of technology and engineering graduates from Estonian University of Life-Sciences – Maire Nurmet, Katrin Lemsalu, <b>Anne Pöder</b> , Jüri Lehtsaar: Estonia
		<b>ERGONOMICS</b>
		Evaluation of the actual sitting position of drivers of passenger vehicles – <b>M. Hruška</b> : Czech Republic
		Skeletal muscle tone and motor performance characteristics in dentists as compared to controls – <b>J. Ereline</b> , K. Pärenson, D. Vahtrik, M. Pääsuke and H. Gapeyeva: Estonia
		Improving job satisfaction with different intervention methods among the school personnel in Estonia and Latvia – <b>G. Hrenov</b> , I. Vilcane, V. Urbane and P. Tint: Estonia
		Operator's behaviour measuring methodology inside off-road vehicle cabin, Operator's focusing scheme – I. Szabó, M. Hushki, Z. Bártfai and <b>L. Kátai</b> : Hungary
		Prevention the Impact of Chemicals on the Health of Workers in Fibreglass Industry – Valentina Urbane, <b>Inese Vilcāne</b> , Piia Tint, Vladimirs Jemeljanovs: Latvia/Estonia
		<b>FOOD SCIENCE AND TECHNOLOGY</b>
		Comparison of methods of extraction of phenolic compounds from American cranberry ( <i>Vaccinium macrocarpon</i> L.) press residues – <b>L. Klavins</b> , J. Kviesis, M. Klavins: Latvia
		Selected wastewater parameters from the vegetable washing process – <b>P. Vaculik</b> , A. Smejtkova, M. Prikryl, O. Drabek, Z. Votruba, and L. Lexa: Czech Republic
		Development of a rapid method for determination of gluten content in wheat flour – <b>V. Nazarova</b> , O. Zhdanova: Russia
		Functional yoghurt production with oat beta-glucan – <b>Monika Nabil</b> and Irina Selezneva: Egypt/Russia
		Possibility of using reconstituted milk in manufacture of cheese with cheddaring and cheese curd stretching – <b>N. Moiseev</b> , <b>E. Suchkova</b> and N. Iakovchenko: Russia
		Meat industry by-products for berry crops and food production quality improvement – <b>M. Kremenevskaya</b> , O. Sosnina, A. Semenova, I. Udina and A. Glazova: Russia
		<b>LIVESTOCK ENGINEERING</b>

		The prevention of harmful gases and odours dispersion by biofiltration in the animal farm – H.C. Kurc and <b>C.B. Sisman</b> : Turkey
		Usage of multi-sensory MESH networks in monitoring the welfare of livestock – <b>J. Hart</b> and V. Hartová: Czech Republic
		Livestock monitoring system using bluetooth technology – <b>V. Hartová</b> and J. Hart: Czech Republic
		Pea and beans as a protein feed for dairy cows – <b>B. Osmane</b> , I. H. Konosonoka, A. Trupa, L. Proškina: Latvia
		Comparison between feed microscopy and chemical methods for determining of crude protein and crude fiber content of commercial mixed feeds – <b>C. Polat</b> and A.M. Yılmaz: Turkey
		Monitoring of ammonium pollution from dairy cows farm according of urea content in milk – <b>D. Ruska</b> , D. Jonkus and L. Cielava: Latvia
		Effects of compaction pressure on silage fermentation in bunker silo – <b>F. Tan</b> , I.S. Dalmis and F. Koc: Turkey
		Lifetime milk productivity and quality in farms with different housing and feeding systems – <b>L. Cielava</b> , D. Jonkus and L. Paura: Latvia
		Evaluation of the surface temperature of laying hens in different thermal environments during the initial stage of age based on thermographic images – R.R. Andrade, I.F.F. Tinôco, F.C. Baêta, M. Barbari, <b>L. Conti</b> , P.R. Cecon, M.G.L. Cândido, I.T.A. Martins and C.G.S. Teles Junior: Brazil/Italy
		Correlation between egg quality parameters, housing thermal conditions and age of laying hens – L.C.S.R. Freitas, I.F.F. Tinôco, F.C. Baêta, <b>M. Barbari</b> , L. Conti, C.G.S. Teles Júnior, M.G.L. Cândido, C.V. Morais and F.C. Sousa: Brazil/Italy
		Reticulo-ruminal pH and temperature relationship between dairy cow productivity and milk composition – <b>I. Šematoviča</b> , I. Eihvalde and D. Kairiša: Latvia
		The effect of bedding amount on gas emissions from manure during storage – <b>J.Šimon</b> , J. Vegrícht and J. Bradna: Czech Republic
		Immunomodulating composition: investigation of systemic immune response and impact of metrics described quality of milk in bovine subclinical mastitis – <b>G. Gulbe</b> , S. Doniņa, V. Saulīte, J. Jermolajevs, L. Peškova, Š. Svirskis, A. Valdovska: Latvia
		<b>PRODUCTION ENGINEERING</b>
		Mechanical qualities of adhesive bonds reinforced with biological fabric treated by plasma – <b>S. Petrásek</b> and M. Müller: Czech Republic
		Influence of chemical cleaning of adhesive bonded surface on working environment and adhesive bond quality – <b>A. Krofova</b> , M. Müller and P. Kic: Czech Republic
		Utilization of the elementary mathematical model for description of mechanical behaviour of composites reinforced by Ensete Ventricosium fibres – <b>P. Hrabě</b> , D. Herak, and Č. Mizera: Czech Republic
		<b>RENEWABLE ENERGY</b>
		The dependence of CO <sub>x</sub> and NO <sub>x</sub> emission concentrations on the excess air coefficient during combustion of selected agricultural briquetted by-products – <b>J. Malat'ák</b> , J. Bradna and J. Velebil: Czech Republic
		Impact of differences in combustion conditions of rape straw on the amount of flue gases and fly ash properties – <b>J. Bradna</b> , J. Malat'ák and J. Velebil: Czech Republic
		Optimization of the balancer for LiFePO <sub>4</sub> battery charging – V. Papez and <b>S. Papezova</b> : Czech Republic
		Performance analysis of biodegradable municipal solid waste collection in the Czech Republic – <b>O. Chotovinský</b> and V. Altmann: Czech Republic
		Comparison of reliability of false rejection rate by monocriterial and multi-criteria of biometric identification systems – <b>V. Hartová</b> and J. Hart: Czech Republic
		Multilayer material for electromagnetic field shielding and EMI pollution prevention – <b>V. Lapkovskis</b> , V. Mironovs, I. Jevmenov, A. Kasperovich and V. Myadelets: Latvia/Belarus
		Indirect Measurement of the Battery Capacity of Smart Devices – <b>H. Pihlap</b> , A. Annuk, A. Allik and M. Hovi: Estonia
		<b>VEHICLES AND FUELS</b>
		Effects of change in the weight of electric vehicles on their performance characteristics – <b>D. Berjoza</b> and I. Jurgena: Latvia
		Comparison of PM production in gasoline and diesel engine exhaust gases – <b>M. Kotek</b> , P. Jindra, P. Prikner and J. Mařík: Czech Republic

		Selection and evaluation of degradation intensity indicators of gas combustion engine oil – J. Pošta, B. Peterka, Z. Aleš, <b>J. Pavlů</b> and M. Pexa: Czech Republic			
	<b>15.00 – 17.40</b>	<p><b>FOOD SCIENCE AND TECHNOLOGY</b></p> <p>(Institute of Technology, room B200)</p> <p>Chair: <b>Ass. Prof Ivi Jōudu</b></p>	<p><b>VEHICLES AND FUELS</b></p> <p>(Institute of Technology, room A204)</p> <p>Chair: <b>Ass. Prof Martin Tunér</b></p>	<p><b>AGRICULTURAL ENGINEERING</b></p> <p>(Institute of Technology, room B119)</p> <p>Chair: <b>Dr. Sven Peets</b></p>	<p><b>ERGONOMICS</b></p> <p>(Institute of Technology, room A310)</p> <p>Chair: <b>Prof Mikael Forsman</b></p>
		The influence of k-casein genotype on the coagulation properties of milk collected from the local Latvian cow breeds – <b>S. Petrovska</b> , D. Jonkus, J. Zagorska, I. Ciprovica: Latvia	Effects of sulphur on the storage stability of the bio and fossil fuel blends – <b>K. Sirviö</b> , S. Niemi, S. Heikkilä and E. Hiltunen: Finland	Air quality mapping using an e-nose system in Northwestern Turkey – <b>Ü. Kızıl</b> , L. Genç and S. Aksu: Turkey	Occupational musculo-skeletal diseases among agricultural workers in the Russian Federation – <b>N. Mazitova</b> : Russia
		The application of ultrasonic waves for the improvement of particle dispersion in drinks – <b>R. Fatkullin</b> , N. Popova, I. Kalinina and V. Botvinnikova: Russia	Dimethylether as a renewable fuel for diesel engines – <b>V. Hönig</b> and P. Zeman: Czech Republic	Web and android applications for district level nutrient management planning – <b>S. Aksu</b> , <b>Ü. Kızıl</b> , L. Genç and A.M. Yıldız: Turkey	Work strain predictors in construction work – Z. Roja, <b>H. Kalkis</b> , I. Roja, J. Zalkalns and B. Sloka: Latvia
		Improvement of microbiological safety and shelf-life of pulse spreads through <i>sous vide</i> and high pressure processing – <b>A. Kirse</b> , R. Galoburda, S. Muizniece-Brasava, D. Karklina and L. Skudra: Latvia	Diesel fuel filtration improvement at low ambient temperatures – A. Birkavs and <b>I. Dukulis</b> : Latvia	The influence of sloping land on soil particle translocation during secondary tillage – <b>P. Novák</b> and J. Hůla: Czech Republic	Effectiveness of simulation models on technical skills among surgeons – <b>R. Raimla</b> and E. Merisalu: Estonia
		An investigation into the effects of bioactive substances from vegetable oils on the antioxidant properties of bakery products – <b>L. Nilova</b> , T. Pilipenko and S. Malyutenkova: Russia	Effect of commercial diesel fuel and hydrotreated vegetable oil blend on automobile performance – G. Birzietis, <b>V. Pirs</b> , I. Dukulis and M. Gailis: Latvia	Digital elevation models as predictors of yield: Comparison of an UAV and other elevation data sources – <b>D. Moravec</b> , J. Komárek, J. Kumhálová, M. Kroulík, J. Prošek and P. Klápště: Czech Republic	Verification of mathematical model of pressure distribution in artificial knee joint – <b>V. Novák</b> , D. Novák, J. Volf and V. Ryzhenko: Czech Republic/Slovakia
		A Study of the Forms of Bound Water in Bread and Bakery Products using Differential Thermal Analysis – L. Nilova, <b>N. Naumenko</b> and I. Kalinina: Russia	Experimental analysis of combustion process in SI Engine using ethanol and ethanol-gasoline blend – M. Gailis and <b>V. Pirs</b> : Latvia	Effects of Irrigation water salinity on evapotranspiration and spinach ( <i>Spinacia oleracea L. Matador</i> ) plant parameters in Greenhouse Indoor and Outdoor Conditions – <b>A. Ünlükara</b> , T. Yurtyeri and B. Cemek: Turkey	Ergonomic assessment of power tool's rotatable handle: a work in progress – <b>M. Reinvee</b> : Estonia
		Total phenolic content and antioxidant activity of tritordeum wheat and barley – <b>M. Eliášová</b> and L. Paznocht: Czech Republic	Comparison of exhaust emissions and fuel consumption of small combustion engine of portable generator operated on petrol and biobutanol – B. Peterka, M. Pexa, J. Čedík, D. Mader and <b>M. Kotek</b> : Czech Republic	Mechanical behaviour of selected bulk oilseeds under compression loading – O.L. Akangbe and <b>D. Herak</b> : Czech Republic	Ergonomic intervention programs in different economic sectors – <b>K. Juhanson</b> and E. Merisalu: Estonia



		Studies of vegetable drying process in infrared film dryer – A. Aboltins and <b>J. Palabinskis</b> : Latvia	Methodology for Endurance testing of common rail fuel supply system – <b>K. Küüt</b> : Estonia	Degradation of diclofenac and triclosan residues in sewage sludge compost – <b>E. Haiba</b> , L. Nei, S. Kutti, M. Lillenberg, K. Herodes, M. Ivask, K. Kipper, R. Aro and A. Laaniste: Estonia	Influence of air-conditioning on dust level in drivers' cabin during the harvest of grain – <b>P. Kic</b> : Czech Republic
			Experimental analysis of commercial diesel fuel blend characteristics using modified CFR engine indicated performance parameters – Maris Gailis, Janis Rudzitis, <b>J. Kreicbergs</b> , Gundars Zalcmānis	Field compaction capacity of agricultural tyres – <b>P. Prikner</b> , M. Kotek, P. Jindra and R. Pražan: Czech Republic	Musculoskeletal discomfort in upper limbs in association with work characteristics in female supermarket cashiers – <b>Sirge T.</b> , Erelina J., Kums T., Gapeyeva H., Kallion K., Pääsuke M.: Estonia
				Comparison the field measurement crop evapotranspiration (ETc) and the estimated ETc using the methodologies of Dual Kc in FAO – 56 for the field tomatoes – <b>O. Cetin</b> and D. Uygan: Turkey	Substantial factors influencing drivers' comfort in transportation – <b>R. Zewdie</b> and P. Kic: Czech Republic
	<b>19.00</b>	<b>OFFICIAL CONFERENCE DINNER</b> at Restaurant <b>Püssirohukelder</b> , 28 Lossi Str., Tartu <a href="http://www.pyss.ee">http://www.pyss.ee</a> From Institute of Technology to Püssirohu kelder: <a href="https://goo.gl/maps/AVS7hYTqwiH2">https://goo.gl/maps/AVS7hYTqwiH2</a>			
<b>Saturday 13.05.2017</b>	<b>9.45 – 13.30</b>	<b>EXCURSIONS</b> <b>Excursion to ERM</b> (Estonian National Museum, Muuseumi tee 2, <a href="http://www.erm.ee">www.erm.ee</a> ) 9.45 Bus leaves for ERM from Institute of Technology (Fr. Kreutzwaldi 56) and stops in midtown at 10.00 Back from ERM 13.30  <b>Tartu City Tour</b> 10.30 Gathering at the City Hall Square, at the fountain			