

## Biosystems Engineering 2018, SCHEDULE

Day	Time			
<b>Wednesday</b> <b>09.05.2018</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 – 10.15	<b>OPENING:</b> (Institute of Technology, room A204) Rector of Estonian University of Life Sciences <b>Prof. Mait Klaassen</b> Opening remarks and welcome: Director of Institute of Technology <b>Margus Arak</b>		
		<b>PLENARY SESSION</b> (Institute of Technology, room A204):		
	10.15 – 10.45	Future trends in renewable energy: a vision – <b>Prof. Enn Lust, Acad.</b> , University of Tartu, Estonia		
	10.45 – 11.15	Soil compaction: causes, costs and prevention – <b>Prof. Thomas Keller</b> , Swedish University of Agricultural Sciences (SLU) in Uppsala, Sweden		
	11.15 – 11.45	Multistep biorefining of agro-food processing by products and waste into functional ingredients for various applications – <b>Prof. Rimantas Venskutonis</b> , Kaunas University of Technology, Lithuania		
	11.45 – 12.15	Beer and health current trends in production and research – <b>Prof. Alexander Jäger</b> , University of Applied Sciences of Upper Austria, Austria		
	12.15 – 13.30	<b>LUNCH</b> Institute of Technology, room B135		
<b>13.30 – 15.10</b>	<b>AUTOMATION TECHNOLOGY</b>  (Institute of Technology, room B200)  Chair: <b>Prof. Andres Annuk</b>	<b>PRODUCTION ENGINEERING</b>  (Institute of Technology, room B119)  Chair: <b>Dr. Tõnu Leemet</b>	<b>AGRICULTURAL ENGINEERING</b>  (Institute of Technology, room A204)  Chair: <b>Dr. Kalvi Tamm</b>	
	Detection reliability for passive infrared detectors in intrusion and hold-up alarm systems and their ergonomics – <b>J. Hart</b> and V. Hartová: Czech Republic	Tools for building production and woodworking made from the perforated steel wastes – I. Boiko, <b>M. Lisicins</b> : Latvia	Mathematical description of loading curves and deformation energy of bulk oil palm kernels – <b>A. Kabutey</b> : Czech Republic	
	Preliminary conclusions on application of ultrasonic sensors in evaluation of distribution and depth of ruts in forest thinning – K. Pužuls, T. Štāls, A. Zimelis and <b>A. Lazdiņš</b> : Latvia	Effect of rubber powder from waste tyre rubbers on mechanical properties of one-component polyurethane putty – <b>M. Tichý</b> , M. Müller, P. Valášek and I. Miturska: Czech Republic, Poland	On the degradation of metformin and carbamazepine residues in sewage sludge compost – <b>E. Haiba</b> , L. Nei, K. Herodes, M. Ivask and M. Lillenberga: Estonia	
	Technical Design of Complex Vision-Tactile Navigation System for Using of Blind Persons Navigation – J. Volf, F. Škeřík and <b>V. Novák</b> : Czech Republic	Mechanical behaviour of Sugar palm ( <i>Arenga pinnata</i> ) fibres – <b>P. Hrabě</b> , Č. Mizera <sup>2</sup> , D. Herák and A. Kabutey: Czech Republic	Analysis of cost and performances of agricultural machinery: reference model for sprayers – <b>T. Yezekyan</b> , F. Marinello, G. Armentano and L. Sartori: Italy	

		Capacitive frost depth indicator – <b>V. Papez</b> and S. Papezova: Czech Republic	Conceptual ‘Cradle to Gate’ analysis of GHG emissions from wood, agricultural plant and synthetic fibres – <b>V. Kazulis</b> , I. Muižniece and D. Blumberga: Latvia	Using the FEM model for design the heat treatment conditions of an agricultural tools – <b>A. Kešner</b> , R. Chotěborský, M. Linda and M. Hromasová: Czech Republic
		Plantograf V18 – new construction and properties – P. Koder, <b>V. Novák</b> , V. Ryzhenko, D. Hrubý, J. Volf and D. Novák: Czech Republic	Mathematical modelling of cutting process system – <b>T. Tärkla</b> , O. Liivapuu, J. Olt: Estonia	Red clover drying coefficient dependences on air velocity at constant drying temperature – <b>A. Aboltins</b> , J. Tomsu and P. Kic: Latvia, Czech Republic
	<b>15.10 – 15.50</b>	<b>Tour of Measurement Laboratories</b> <i>Coffee Break</i> Room B135		
	<b>15.50 – 17.30</b>	<b>ECONOMY</b>  (Institute of Technology, room B119)  Chair: <b>Dr Ants-Hannes Viira</b>	<b>AGRICULTURAL ENGINEERING</b>  (Institute of Technology, room A204)  Chair: <b>Dr. Kaarel Soots</b>	
		Changes in composition and spatial distribution of knowledge-based economy in rural areas of Latvia – <b>B. Rivza</b> , M. Kruzmetra, L. Sunina: Latvia		Effect of PTO- driven tillage machines on soil particles transfer – <b>P. Novák</b> , J. Hůla and M. Buřič: Czech Republic
		Performance evaluation of rural areas: the case of Estonian rural municipalities before the administrative reform – <b>H. Luik-Lindsaar</b> , R. Põldaru, A. Põder, J. Roots: Estonia		Solution for remote real-time visual expertise of agricultural objects – <b>V. Komasilovs</b> , <b>A. Zacepins</b> , A. Kviesis, A. Nasirahmadi and B. Sturm: Latvia, Germany
		Optimization of arable land use to guarantee food security in Estonia – <b>R. Põldaru</b> , A.-H. Viira and J. Roots: Estonia		Optimising cold compressive recovery of oil from the seeds of Sesame ( <i>Sesamum indicum</i> L.) – <b>O.L. Akangbe</b> , R. Adamovský and F. Mošna: Czech Republic
		Patterns in Dairy Value Chain: Case of Dairy Exports in Estonia, Latvia and Lithuania – <b>R. Omel</b> : Estonia		Irradiation level affect on value of fluctuating asymmetry of bilateral traits of cucumber in juvenile pahase – <b>S. Rakutko</b> , E. Rakutko, A. Avotins and K. Berzina: Russia, Latvia
		Restricting the practices of maintenance of permanent grassland – spatial analysis of potential effects on agricultural land use – <b>A.-H. Viira</b> , J. Ariva, K. Kall, L. Oper, E. Jürgenson, S. Maasikamäe: Estonia		Mathematical model of cleaning potatoes on surface of spiral separator – <b>V. Bulgakov</b> , S. Nikolaenko, M. Arak, I. Holovach, Z. Ruzhylo, J. Olt: Ukraine, Estonia
		Developing small agro-energy districts in Southern Italy: an economic assessment of an integrated plant for the production of electric and thermic energy – <b>C. Marciano</b> : Italy		Potential reuse of Sphagnum peat after biosorption-desorption of Zn(II) – <b>V. Denisova</b> : Latvia
	<b>19.00</b>	<b>Welcome Reception hosted by Deputy Mayor of Tartu</b> , Tartu Town Hall, Raekoja plats 1a		

<b>Thursday 10.05.2017</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>BIOENERGY</b>  (Institute of Technology, room A204)  Chairs: <b>Prof. Alexander Jäger</b> and <b>Prof. Timo Kikas</b>	<b>FOOD SCIENCE</b>  (Institute of Technology, room B119)  Chair: <b>Prof. Rimantas Venskutonis</b>	<b>RENEWABLE ENERGY</b>  (Institute of Technology, room B200)  Chair: <b>Dr. Alo Allik</b>
		Yeast as a Production Platform in Biorefineries: Conversion of Agricultural Residues Into Value-Added Products – <b>A. Cristobal-Sarramian</b> and D. Atzmüller: Austria	3D image analysis of the shapes and dimensions of several tropical fruits – <b>D. Herak</b> , C. Mizera, P. Hrabe and A. Kabutey: Czech Republic	Stabilization of persistent organic pollutants (POP) in flue gases in a biological waste incinerating facility – <b>P. Jirsa</b> and J. Malaták: Czech Republic
		Chemical composition of agromass ash and its influence on ash melting characteristics – <b>D. Čepauskienė</b> , N. Pedišius and D. Milčius: Lithuania	Comparative analysis of chia seeds ( <i>Salvia hispanica</i> L.) oil obtained by different methods – <b>D. Kuznetcova</b> , L. Nadochii: Russia	Comparison of Predicted and Real Parameters of PV systems in Czech Republic and Spain – <b>T. Olšan</b> , B.M. Soucase and M. Libra: Czech Republic, Spain
		Agricultural residues in Indonesia and Vietnam and their potential for direct combustion: with a focus on fruit processing and plantation crops – <b>A. Brunerová</b> , H. Roubík, M. Brožek, J. Velebil: Czech Republic	Effects of processing conditions on physical parameters of triticale flakes – T. Kince, <b>E. Straumite</b> , D. Klava, Z. Kruma, K. Abelniece and A. Balgalve: Latvia	A comparative case study of the efficiency of collection systems for paper and biodegradable municipal solid waste – <b>O. Chotovinský</b> & V. Altmann: Czech Republic
		Optimizing the sample size to estimate growth in I-214 poplar plantations at definitive tree density for bioenergetic production – <b>P.A. Marziliano</b> , D. Russo, V. Altieri, G. Macrì and F. Lombardi: Italy	Influence of technological parameters on chemical composition of triticale flakes – <b>Z. Kruma</b> , E. Straumite, T. Kince, D. Klava, K. Abelniece and A. Balgalve: Latvia	Battery capacity drop during operation – <b>S. Papezova</b> and V. Papez: Czech Republic
		Mathematical modelling of the energy balance for the valuating of solid biomass fuel by compressing – <b>Mart Hovi</b> : Estonia	Optimisation of biologically active compounds ultrasound assisted extraction from potatoes using response surface methodology – <b>R. Zarins</b> , Z. Kruma, I. Skrabule: Latvia	Determination of conversion relations for the use of small hydrodynamic pumps in reverse turbine operation – <b>M. Polák</b> : Czech Republic
		Low temperature BMP tests using fish waste from invasive Round goby of the Baltic Sea – <b>A. Gruduls</b> , K. Balina, K. Ivanovs and F. Romagnoli: Latvia	Shrinkage effect on diffusion coefficient during carrot drying – A. Aboltins, <b>T. Rubina</b> and J. Palabinskis: Latvia	Assessment of <i>Calotropis</i> natural dye extracts on the efficiency of dye-sensitized solar cells - Abdul Hai Alami, Kamilia Aokal, Di Zhang, Muhammad Tawalbeh, Alya Alhammad and Aya Taieb: United Arab Emirates, <i>Presenter</i> – <b>A. Assad</b> : Finland
		CO <sub>2</sub> sequestration modelling in microalgal solutions in photobioreactors – <b>A. Avarand</b> , T. Kikas: Estonia	Alcohol free beer as carbohydrate-electrolyte solution for sportsmen – <b>A. Jäger</b> , R. Burgholzer, K. Krennhuber: Austria	Increasing solar energy usage for dwelling heating, using solar collectors and medium sized vacuum insulated storage tank – <b>J. Kalder</b> , A. Annuk, A. Allik and E. Kokin: Estonia
		Explosive decompression pretreatment – nitrogen or flue gas? – M. Raud, <b>V. Rooni</b> , T. Kikas: Estonia	Development of Food Science and Technology in Estonian University of Life Sciences – <b>I. Jõudu</b> : Estonia	213 Wind and solar energy storage possibilities for zero net energy building in weak-grid or off-grid situation – <b>E. Jõgi</b> : Estonia

	<b>12.40 – 13.10</b>	<b>Tour of Food Laboratories</b>
	<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>
	P001	Effects of fertilization on Picea abies stands situated on drained peat soils – <b>G. Cekstere</b> , A. Osvalde, V. Nollendorfs, A. Karlsons, J. Pormale, P. Zalitis, G. Snepsts, S. Minova, L. Jankevica and M. Laivins: Latvia
	P002	Analysis of Hop Drying in Chamber Dryer – <b>A. Rybka</b> , P. Heřmánek and I. Honzík: Czech Republic
	P003	Development of new elements to automatized greenhouses – <b>J. Hart</b> and V. Hartová: Czech Republic
	P004	Alarm guard systems for the prevention of damage produced by ungulates in a chestnut grove of Middle Italy – <b>L. Conti</b> , S. Bartolozzi, S. Iacobelli, V. Racanelli and F. Sorbetti Guerri: Italy
	P005	The rheological properties of the undisturbed samples of Typical Chernozem and Vertic Solonetz – D. Khaidapova, N. Khitrov, <b>V. Klueva</b> : Russia
	P006	Theory of retaining potato bodies during operation of spiral separator – V. Bulgakov, S. Nikolaenko, V. Adamchuk, Z. Ruzhylo and <b>J. Olt</b> : Ukraine, Estonia
	P007	Theory of impact interaction between potato bodies and rebounding conveyor – V. Bulgakov, S. Nikolaenko, V. Adamchuk, Z. Ruzhylo and <b>J. Olt</b> : Ukraine, Estonia
	P008	Determination of moisture ratio in parts of the hop cone during the drying process in belt dryer – <b>P. Heřmánek</b> , A. Rybka and I. Honzík: Czech Republic
	P009	Experimental investigation of the work of a ploughing aggregate, operating according to the system «push-pull» – <b>S. Ivanovs</b> : Latvia
	P010	Experimental investigation of an improved beet root cleaner from impurities – <b>S. Ivanovs</b> : Latvia
	P011	Air flow conditions in workspace of mulcher – <b>J. Čedík</b> , J. Chyba, M. Pexa, S. Petrásek, J. Jedelský, M. Malý: Czech Republic
	P012	Short-term effects of land spreading of olive mill wastewater on water repellency of different soils – Serafina Andiloró: Italy
	P013	Intensification of rape seed drying process through the use of infrared emitters – V. Bulgakov, V. Bandura, M. Arak and <b>J. Olt</b> : Ukraine, Estonia
		<b>PRECISION AGRICULTURE</b>
	P014	Investigating the probable consequences of super absorbent polymer and mycorrhizal fungi to reduce detrimental effects of lead on wheat ( <i>Triticum aestivum</i> L.) – H.R. Tohidi Moghadam, T. W. Donath, F. Ghooshchi and <b>M. Sohrabi</b> : Iran, Germany
	P015	The influence of cultivar, weather conditions and nitrogen fertilizer on winter wheat grain yield – <b>A. Linina</b> and Antons Ruza: Latvia
	P016	Comparison of Two Sowing Systems for CTF Using Commercially Available Machinery – <b>M. Macák</b> , V. Rataj, M. Barát and J. Galambošová: Slovakia
	P017	Research on the mineral composition of cultivated and wild blueberries and cranberries – <b>A. Karlsons</b> , A. Osvalde, G. Čekstere and J. Pormale: Latvia
	P018	Assessment of soil electrical conductivity using remotely sensed thermal data – <b>K. Křížová</b> , J. Haberle, M. Kroulík, J. Kumhálová and J. Lukáš: Czech Republic

P019	Enrichment biodiversity of field crops with climate changing - Liubov Honchar: Ukraine
P020	Field Bean ( <i>Vicia faba</i> L.) Yield and Quality Depending on Some Agrotechnical Aspects – <b>I. Plūduma-Pauniņa</b> , Z. Gaile, B. Bankina and R. Balodis: Latvia
P021	Effect of nitrogen fertilization on winter wheat yield and yield quality – <b>L. Litke</b> , Z. Gaile and A. Ruža: Latvia
P022	Biostability of cotton fibers with different natural colors and selection – Anna Vinogradova: Russia
P023	Environmental risk assesment studies of new plant protection products elaborated from coniferous trees bark - Liga Jankevica: Latvia
P024	Evaluation of different lighting sources on the growth and chemical composition of lettuce – <b>D. Sergejeva</b> , I. Alsina, M. Duma, L. Dubova, I. Augspole, I. Erdberga K. Berzina: Latvia
P025	Germination and growth of primary roots of inoculated bean ( <i>Vicia faba</i> ) seeds under different temperatures – <b>A. Senberga</b> , L. Dubova and I. Alsina: Latvia
P026	Juvenile growth and frost damages of poplar clone OP42 in Latvia – S. Sēnhofa1, U. Neimane, A. Grava, L. Sisenis, D. Lazdina and <b>A. Jansons</b> : Latvia
P027	Carbon content of below-ground biomass of young Scots pines in Latvia – Ā. Jansons, A. Bārdulis, <b>L. Kēniņa</b> , D. Lazdiņa, E. Džeriņš and R. Kāpostiņš: Latvia
P028	Chemical composition of seeds and green beans of common bean varieties, breded in Omsk State Agrarian University under conditions of southern forest-steppe zone of Western Siberia – <b>N. Kazydub</b> , A. Pinkal, T. Marakayeva, S. Kuzmina, M. Korobeinikova and O. Kotsyubinskaya: Russia, Mexico
P029	AFLP-analysis of genetic diversity in soybean [ <i>Glycine max</i> (L.) Merr.] cultivars Russian and foreign selection – <b>M. Zargar</b> , E. Romanova, A. Trifonova, E. Shmelkova and P. Kezimana: Russia
P030	The effect of ethyl 5'-(4-methoxybenzoyl)-5',7'-dihydrospiro[cyclopentane-1,6'-[1,2,3]triazolo[5,1-b][1,3,4]thiadiazin]-3'-carboxylate on <i>Pinus sylvestris</i> L. seed germination – T.A. Kalinina, O.A. Vysokova, L.A. Khamidullina, A.A. Kochubei, O.E. Cherepanova, <b>T.V. Glukhareva</b> : Russia
	<b>LIVESTOCK ENGINEERING</b>
P031	Poultry farming solutions for a sustainable development of marshlands areas of South Iraq – <b>G. Rossi</b> , L. Conti, G. Bambi, M. Monti, M. Barbari: Italy
P032	Criteria of design for deconstruction applied to dairy cows housing: a case study in Italy – L. Leso, <b>L. Conti</b> , G. Rossi and M. Barbari: Italy
P033	Implementation of practical solutions to improve buffalo breeding development in rural areas of South Iraq – G. Rossi, L. Conti, K. Al-Fartosi and <b>M. Barbari</b> : Italy, Iraq
P034	Improvement of monitoring of cattle in outdoor enclosure using IQRF technology – <b>V. Hartová</b> and J. Hart: Czech Republic
P035	Legume grains in the diet of dairy cows – <b>A. Trupa</b> : Latvia
P036	Effect of thermal environment on body temperature of early-stage laying hens – R.R. Andrade, I.F.F. Tinôco, C.F. Souza, K. P. Olivera, <b>M. Barbari</b> , V. M. F. Cruz, F.J.F. Baptista, M.O.Vilela, L. Conti and G. Rossi: Brazil, Italy, Portugal
P037	Productive performance of broilers at the final stage of breeding submitted to different levels of metabolizable energy in different thermal environments – K.P. Oliveira, C.F.S. Ferreira, I.F.F. Tinoco, R.R. Andrade, <b>M. Barbari</b> , V.M.F. Cruz; F.J.F. Baptista, M.F.A. Vieira, L. Conti and G. Rossi: Brazil, Italy, Portugal
P038	Diagnosis of air quality in broilers production facilities in hot climates – F.C. Sousa, I.F.F. Tinôco, <b>M. Barbari</b> , F. Baptista, C.F. Souza, A. O. Saraz, D.J.R. Coelho and A.L. Silva: Brazil, Italy, Portugal and Colombia
P039	Comparison between different types of bedding materials for horses – G. Bambi, G. Rossi, <b>M. Barbari</b> : Italy
P040	Farm Manure Amount Calculation Using Statistical Data in Latvia – J. Priekulis, <b>A. Aboltins</b> , A. Laurs, L. Melece: Latvia
P041	Efficiency of the use of field beans in fattening lambs – Elita Selegovska, <b>Daina Kairisa</b> : Latvia
P042	The role of field beans in nutrition of Boer goat – <b>E. Selegovska-Aplocina</b> : Latvia
P043	The influence of dietary inclusion of peas, faba bean and lupin as a replacement for soybean meal on pig performance and carcass traits – <b>L. Degola</b> and D. Jonkus: Latvia

P044	Molecular Genetics Analysis of Milk Protein Gene Polymorphism of Dairy Cows and Breeding Bulls in Latvia – <b>D. Smiltina</b> , Z. Grislis: Latvia
P045	Effect of Automatic Feeding Station use on fattening performance in lambs and intake activity periods – <b>L. Šenfelde</b> and D. Kairiša: Latvia
P046	The relationships between different genotype dairy cow body condition score, milk urea content and milk productivity – <b>D. Jonkus</b> , L. Cielava, D. Ruska: Latvia
	<b>BIOENERGY</b>
P047	Anaerobic co-fermentation of molasses and oil with straw pellets – <b>V. Dubrovskis</b> , Imants Plume and Indulis Straume: Latvia
P048	Suitability of nettle ( <i>Urtica dioica</i> ) and Canadian goldenrod ( <i>Solidago canadensis</i> ) for methane production – <b>V. Dubrovskis</b> : Latvia
P049	Evaluation of dried compost for energy use via co-combustion with wood – J. Malaťák, <b>J. Bradna</b> , J. Velebil, A. Gendek and T. Ivanova: Czech Republic, Poland
P050	Analysis of the sugar composition in birch wood hydrolysates by iodometric titration and UPLC-ELSD – Daniela Godina: Latvia
P051	Sunlight potential for microalgae cultivation in the mid-latitude region – the Baltic states – A. Stunda-Zujeva, <b>M. Zuteris</b> and K. Rugele: Latvia
P052	The potential use of invasive plant species as solid biofuel by using binders - <b>L. Zihare</b> , R. Soloha, & D. Blumberga : Latvia
P053	Management of Brazilian hardwood species ( <i>Jatoba</i> and <i>Garapa</i> ) wood waste biomass utilization for energy production purposes – <b>V. Chiteculo</b> , A. Brunerová, P. Surový and M. Brožek: Czech Republic
	<b>RENEWABLE ENERGY</b>
P054	Improving energy efficiency of biotechnical agricultural systems – scientific and organisational Issues – V. Karpov, and <b>T. Kabanen</b> : Estonia, Russia
P055	Thermal properties of historic rural building materials in Czechia – <b>P. Kic</b> and P. Neuberger: Czech Republic
P056	Influence of the road profile in different geographical areas of the Czech republic to the operational parameters of the electric vehicle – <b>D. Marčev</b> , M. Kotek: Czech Republic
P057	Application of conversion model for designing hydrodynamic pumps in turbine mode – <b>M. Polák</b> : Czech Republic
P058	Factors influencing use of fuelwood and its environmental impacts in Tapanuli Utara regency, North Sumatra – <b>H. Roubík</b> , J. Mazancová, A. Brunerová and D. Herák: Czech Republic
	<b>VEHICLES AND FUELS</b>
P059	Flash points of gasoline from Kukersite oil shale: Prediction from vapor pressure – R. Rannaveski and <b>M. Listak</b> : Estonia
P060	The impact of selected biofuels on Skoda Roomster 1.4TDI engine's operational parameters – Martin Kotek: Czech Republic
P061	Kinematic viscosity studies for medium-speed CI engine fuel blends – <b>K. Sirviö</b> , S. Niemi, R. Help, S. Heikkilä and E. Hiltunen: Finland
P062	The operational parameters and emissions of portable generator after long-term operation on n-butanol – M. Pexa, <b>J. Čedík</b> , B. Peterka and M. Holůbek: Czech Republic
P063	Evaluation of the fuel commercial additives effect on exhaust gas emissions, fuel consumption and performance in diesel and petrol engine – <b>I. Janoško</b> and P. Kuchar: Slovak Republic
	<b>ECONOMY</b>
P064	Evaluation of break-even point and gross margin economic risks in producing winter oilseed rape – <b>M. Mimra</b> , M. Kavka and P. Markytán: Czech Republic
P065	The model for calculation of forest operations costs and sensitivity analysis – <b>S. Kaleja</b> : Latvia

		<b>ERGONOMY</b>
	P066	Analysis of indoor temperature in the workshop building during the summer: a pilot study – D. V. Cao and <b>P. Kic</b> : Czech Republic
	P067	Air-conditioning in the cabins of passenger cars – Pavel Kic: Czech Republic
	P068	Assessment of the actual hand position on the steering wheel for drivers of passenger cars while driving – Michal Hruška: Czech Republic
		Physioacoustic Treatment in a Tractor Seat – <b>J. Leppälä</b> : Finland
		<b>FOOD SCIENCE</b>
	P069	Effect of germination and extrusion on the phenolic content and antioxidant activity of raw buckwheat ( <i>Fagopyrum esculentum</i> Moench) – <b>I. Beitane</b> , G. Krumina-Zemture, M. Sabovics: Latvia
	P070	Encapsulation of Gallic acid in solid lipid core surrounded with maltodextrin shell – <b>I. Sepelevs</b> and G.A. Reineccius: Latvia, USA
	P071	Cadmium-induced oxidative damage and protective action of fractioned red beet ( <i>Beta vulgaris</i> ) root juice in chickens – <b>S. Vasiljeva</b> , G. Smirnova, N. Basova and D. Babarykin: Latvia
	P072	Flavonoids and total phenolic content in extruded buckwheat products with sweet and salty taste – <b>G. Krumina-Zemture</b> , I. Beitane and I. Cinkmanis: Latvia
	P073	Bioactive compounds in herbal infusions – I. Augšpole, <b>M. Dūma</b> and B. Ozola: Latvia
	P074	The effect of sapropel extracts on microflora and physicochemical parameters of Dried Distillers' Grain – <b>D. Nsengumuremyi</b> , N.V. Barakova, V. A. Romanov, A.S. Mityukov, A.V. Guzeva: Russia
	P075	Inoculation technology for legumes based on alginate encapsulation – A. Shcherbakov, E. Shcherbakova, <b>Mulina, Yahina</b> : Russia
	P076	Individual Product Code as a tool of control quality and management of technological processes of meat products – <b>V. Vokueva</b> : Russia
	P077	The determination limit stress forces of barley malt depending on load size – <b>M. Hromasova</b> : Czech Republic
	P078	Meat chemical composition of pasture pure lambs and crossbreeds – J. Vecvagars, D. Bārzdiņa, <b>D. Kairiša</b> : Latvia
	P079	Effect of drying technologies on bioactive compounds maintenance in pumpkin by-products – <b>D. Kļava</b> , S. Kampuse, L. Tomsone, T. Kince and L. Ozola: Latvia
	P080	Contents of tocopherols in different types of dry shell fruits – A. Hejtmánková, <b>J. Táborský</b> , V. Kudelová and K. Kratochvílová: Czech Republic
	P081	A study of dynamics of bitter acids and xanthohumol in hop pellets during storage – <b>J. Táborský</b> , A. Hejtmánková, E. Hlavatá, L. Chládek: Czech Republic
	P082	A study of commercial $\beta$ -galactosidase stability under simulated <i>in vitro</i> gastric conditions – <b>K. Žolnere</b> , I. Ciproviča, A. Ķirse and I. Cinkmanis: Latvia
	P083	The influence of drying method to the changes of bioactive compounds in lingonberry by-products – L. Ozola and S. Kampuse: Latvia
	P084	Single cell protein production from waste biomass: review of various agricultural by-products – <b>K. Spalvins</b> , K. Ivanovs and D. Blumberga: Latvia
	P085	Study of potential PCR inhibitors in drinking water for <i>Escherichia coli</i> identification – B. Dalecka and <b>L. Mezule</b> : Latvia
	P086	Investigation of microflora of the Shubat - Kazakh National fermented dairy product produced from camel milk – A. Orazov, <b>L. Nadtochii</b> , M. Muradova and S. Garbuz
	P087	The development of the composition and technology of sugar-free frozen dessert using the sesame flour – <b>M.V. Lugova</b> and T.P. Arseneva
		<b>PRODUCTION ENGINEERING</b>
	P088	Production and Characterization Of Al-BN Composite Materials Using By Powder Metallurgy – <b>A. Yonetken</b> , A. Erol: Turkey
	P089	Quality assessment of laser cladded HSS coatings with deep penetration into base material to obtain a smooth gradient of properties in coating-substrate interface – <b>S. Ločs</b> and I. Boiko: Latvia
	P090	Extraction of oil from rapeseed using duo screw press – <b>Č. Mizera</b> , D. Herák, P. Hrabě and A. Kabutey: Czech Republic

P091	Testing of ISM band at remotes for unlocking vehicles – <b>J. Hart</b> and V. Hartová: Czech Republic		
P092	Sapropel processing approaches towards high added-value products – <b>V. Obuka</b> , M. Boroduskis, A. Ramata-Stunda, L. Klavins and M. Klavins: Latvia		
P093	Influence of face lighting on the reliability of biometric facial readers – <b>V. Hartová</b> , J. Hart and P. Prikner: Czech Republic		
P094	Lake blue clay - sapropel - flax shive briquettes for water absorption and desorption – R. Tretjakova, <b>A. Martinovs</b> , M. Avisane and G. Kolcs: Latvia		
P095	Evaluation of reed biomass use for manufacturing products, taking into account environmental protection requirements - <b>I. Muizniece</b> , V. Kazulis, L. Zihare, L. Lupkina, K. Ivanovs and D. Blumberga: Latvia		
	<b>AUTOMATION TECHNOLOGY</b>		
P096	Crop weight measurement sensor for IoT based industrial greenhouse systems – <b>A. Avotins</b> , A. Potapovs, P. Apse-Apsitis and J. Gruduls: Latvia		
P097	Development and testing results of IoT based air temperature and humidity measurement system for industrial greenhouse – <b>A. Avotins</b> , P. Apse-Apsitis, J. Bicāns and J. Gruduls: Latvia		
<b>15.00 – 17.40</b>	<p style="text-align: center;"><b>VEHICLES AND FUELS</b></p> <p style="text-align: center;">(Institute of Technology, room B200)</p> <p>Chair: <b>Prof. Risto Iives</b></p>	<p style="text-align: center;"><b>PRECISION AGRICULTURE</b></p> <p style="text-align: center;">(Institute of Technology, room A204)</p> <p>Chair: <b>Prof. Merrit Shanskiy</b></p>	<p style="text-align: center;"><b>ERGONOMY</b></p> <p style="text-align: center;">(Institute of Technology, room B119)</p> <p>Chair: <b>Dr. Jarko Leppälä</b></p>
	Properties of local produced animal-fat based biodiesel and its blend with fossil fuel – <b>K. Sirviö</b> , S. Heikkilä, R. Help, S. Niemi and E. Hiltunen: Finland	Soil sampling automation using mobile robotic platform – <b>E. Väljaots</b> , H. Lehiste, M. Kiik and T. Leemet: Estonia	Importance of microclimate conditions and CO <sub>2</sub> control in educational buildings: a case study – <b>E. Merisalu</b> , Mugur, <b>P. Kic</b> : Estonia
	Experimental research on compatibility of mineral and biobased hydraulic oils – <b>A. Birkavs</b> , R. Smigins: Latvia	Evaluation of the RTK receiver’s capability of determination the accurate position – <b>J. Kadeřábek</b> , V. Shapoval and P. Matějka: Czech Republic	Influence of ventilation on air-borne microorganisms in sport facilities – <b>P. Kic</b> : Czech Republic
	Diagnostics of hydraulic fluids used in aviation – M. Obergruber, V. Höning, P. Procházka and <b>J. Táborský</b> : Czech Republic	The Use of LiDAR and Satellite Multispectral Data in the Detection of Wet Areas in Forests on Mineral Soils – <b>J. Ivanovs</b> : Latvia	Faults and the physical workload in sawing and packing-related woodworking processes when considering potential ergonomic solutions – <b>H. Kalkis</b> , Z. Roja and S. Babris: Latvia
	Combustion property analyses with variable liquid marine fuels in combustion research unit – <b>M. Hissa</b> , S. Niemi and K. Sirviö: Finland	Influence of soil tillage on oats yield in Central Bohemia Region – <b>J. Mašek</b> and P. Novák: Czech Republic	Ergonomics modeling parameters and its influence on planning the workplaces – <b>D. Maksimov</b> : Latvia
	The impact of the heat exchange reactor for the exhaust gas emissions of spark ignition engine – <b>V. Raide</b> : Estonia	Field trajectories proposals as a tool for increasing work efficiency and sustainable land management – <b>M. Kroulik</b> , J. Hula and V. Brant: Czech Republic	Human Factors and Ergonomics in Safety Management in Healthcare: Building New Relationships – <b>J. Sepp</b> , K. Reinhold, M. Järvis and P. Tint: Estonia
	Investigation into the Performance Characteristics of Electric Automobiles by Means of a Data Logger – D. Berjoza, V. Pīrs, <b>I. Jurgena</b> : Latvia	Effect of I <sub>2</sub> /KI water solution to wheat seeds imbibition assessed by image analysis – <b>J. Lev</b> and J. Blahovec: Czech Republic	Quality of EU statistics on work accidents in agriculture – a country comparison – <b>E. Merisalu</b> , Jarko Leppälä: Estonia, Finland
	Effect of sunflower and rapeseed oil on production of solid particles and performance of diesel engine – <b>J. Čedík</b> , M. Pexa, M. Holúbek, D. Mader and R. Pražan: Czech Republic	The indigenous arbuscular mycorrhizal fungal colonisation potential in potato roots is affected by agricultural treatments – <b>K. Loit</b> , L. Soonvald, M. Kukk, A. Astover, E. Runno-Paurson, T. Kaart and M. Öpik: Estonia	Physioacoustic Treatment in a Tractor Seat – <b>J. Leppälä</b> : Finland



		An assessment of stratification of exhaust gases from gasoline and diesel engine – A. Birkavs, <b>R. Smigins</b> : Latvia	Odour reduction of manure through addition of boracic charcoal – <b>G. Hampejs</b> , A. Jäger, S. Steiner and K. Steiner: Austria	Dynamics of non-fatal and fatal work accidents in agriculture in the past decade in Estonia – <b>A. Enn</b> : Estonia
		Exhaust particle size distributions of a non-road diesel engine in an endurance test – <b>T. Ovaska</b> , S. Niemi, T. Katila and O. Nilsson: Finland		
	<b>19.00</b>	<b>OFFICIAL CONFERENCE DINNER</b> at <b>Tartu Alexander Pub</b> , 42 Aleksandri Str., Tartu <a href="https://www.visitestonia.com/en/restaurantpub-tartu-aleksander">https://www.visitestonia.com/en/restaurantpub-tartu-aleksander</a>		
<b>Friday 11.05.2017</b>	<b>9.45 – 13.30</b>	<p><b>EXCURSIONS</b> <i>Please select only one during registration!</i></p> <p><b>Bus to tours:</b>  09.15 at EMÜ Institute of Technology (Fr. R. Kreutzwaldi 56), parking lot  09.25 from Town Halls Sqr to Science Centre AHHAA  09.36 from Science Centre AHHAA to Estonian National Museum  12.00 return from Estonian National Museum to town centre (final stop)</p> <p><b>City tour</b> <a href="https://www.google.com/maps/@58.3802841,26.721349,17z">https://www.google.com/maps/@58.3802841,26.721349,17z</a>  Guided tour at 09.30  Gathering at fountain on Town Hall Square (Raekoja plats)  Approx. 1.5 hours</p> <p><b>Science Centre AHHAA</b> <a href="http://www.ahhaa.ee/en">http://www.ahhaa.ee/en</a>  Guided tour at 10.00 following science show at 11.30.  Gathering at main entrance (Sadama 1, Tartu)  Approx. 1.75 hours</p> <p><b>Estonian National Museum (ERM)</b> <a href="http://www.erm.ee/en">http://www.erm.ee/en</a>  Guided tour at 10.00.  Gathering at main entrance (Muuseumi tee 2)  Approx. 1.5 hours</p>		