

Biosystems Engineering 2012 Time Schedule

Day	Time	
Thursday 10.05.12	9.00 – 10.00	Registration and morning coffee <i>(Estonian University of Life Sciences, Institute of Technology, 56 Kreutzwaldi Str., Tartu)</i>
	10.00 – 10.15	Opening: Rector Prof. Mait Klaassen <i>(Institute of Technology, room A204)</i> Opening remarks and welcome: Director Institute of Technology Margus Arak
		Plenary session <i>(Institute of Technology, room A204):</i>
	10.15 – 10.45	Educational requirements to support research and innovation in Bioenergy – Prof. Dr. Morten Dam Rasmussen , Head of Department Biosystems Engineering, Aarhus School of Engineering, Denmark
	10.45 – 11.15	The challenge of Hydrogen production for the transition to a CO ₂ -free economy – Prof. Dr. Alberto Abánades , Institute for Advanced Sustainability Studies, Universidad Politécnica de Madrid, Germany & Spain
	11.15 – 11.45	Agricultural Field Machinery for the future – from an Engineering Perspective – Prof. Dr. Martin Heide Jørgensen , Head of Department of Mechanical and Manufacturing Engineering, Aalborg University, Denmark
	11.45 – 13.00	Lunch in Estonian University of Life Sciences, <i>1 Kreutzwaldi Str., Tartu</i>

Thursday 10.05.12	13.00	Power engineering and renewable energy <i>(Institute of Technology, room A218)</i>	Agricultural Machinery and Agrotechnology <i>(Institute of Technology, room B136)</i>	Ergonomics <i>(Institute of technology, room A220)</i>
		Chair: Prof. Andres Annuk	Chair: DSc. Edvin Nugis	Chair: Prof. Mati Pääsuke
	13.00 – 14.40	Pretreatment and usage of pulp and paper industry residues for fuels production and their energetic potential – A. Menind , L. Oper, M. Hovi, J. Kers, M. Tutt, T. Kikas: Estonia	Simple and cost effective method for fuel consumption measurements of agricultural machinery – T. Jokiniemi , H. Rossner and J. Ahokas: Finland	Vibration and noise caused by lawn maintenance machines in association with risk to health – P. Tint , G. Tarmas, T. Koppel, K. Reinhold, S. Kalle: Estonia
		Biomass preparation for conversion humidity and value assessment – S. Kalinauskaitė , A. Sakalauskas, E. Šarauskis, A. Jasinskas,	Energy consumption in animal production - case farm study –	Analysis of students' assessments about the noise

		M. Ahlhaus, H. Gerath: Lithuania & Germany	J. Frorip , E. Kokin, J. Praks, V. Poikalainen, A. Ruus, I. Veermäe, L. Lepasalu, W. Schäfer, H. Mikkola, J. Ahokas: Estonia & Finland	educational lecture – P. Kliimak , M. Luik, A. Leola, M. Reinvee: Estonia
		Experimental investigation of photovoltaic-thermal hybrid solar collector – V. Zagorska , I. Ziemelis, L. Kancevica, H. Putans: Latvia	Energy savings in plant production – T. Jokiniemi , H. Mikkola, H. Rossner, L. Talgre, E. Lauringson, M. Hovi, J. Ahokas: Finland & Estonia	Exploring the differences of hand movements accuracy in static and dynamic work – M. Reinvee , P. Vaas: Estonia
		Analysis of Wood Fuel Chain in Latvia – D. Blumberga, L. Lipsane, I. Laicāne : Latvia	The model to define optimum volume for slurry tanker – K. Tamm & R. Vettik: Estonia	Computer users' health risks caused by the simultaneous influence of inadequate indoor climate and monotonous work – P. Tint , A. Traumann, V. Pille, V.-R. Tuulik-Leisi, V. Tuulik: Estonia
		The regression model for the evaluation of the quality parameters for pellets – A. Beloborodko , L. Timma, A. Žandeckis and F. Romagnoli: Latvia	Outline of results concerning assessment of soil compaction in Estonia – E. Nugis & J. Kuht: Estonia	Ammonia emission in cowsheds and pigsties during the summer period – O. Sada , E. Mikson and B. Reppo: Estonia
		Impact of Immature Willow Stems Chopping Quality on the Boiler Efficiency and Harmful Emissions Evaluation – A. Jasinskas , I. Ulozevičiūtė, E. Šarauskiš, A. Sakalauskas: Lithuania	Visualization of the Working Process of a Novel Manipulator for a Stone Protector of a Stony Soil Tillage Implement – J. Olt & M. Heinloo: Estonia	Effective protection of pinewood against fungal attack – T. Kaps, R. Reiska, U. Kallavus, M. Koolme, Ü. Luga, J. Kers : Estonia
	14.40 – 15.00	Coffee break , room A228		

Thursday 10.05.12	15.00	Vehicles and Fuels (Institute of Technology, room B200)	Livestock Technology (Institute of Technology, room B136)	Production Engineering (Institute of Technology, room A310)
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	Chair: Ass. Prof. PhD. Villu Mikita	Chair: Prof. Jukka Ahokas	Chair: Prof. Jüri Olt
15.00 – 16.30	Computer based comparison analysis of single and double-connecting-rod and slider-crank linkages – A. Aan , M. Heinloo: Estonia	Infrared temperature patterns of cow's body as an indicator for health control at precision cattle farming – V. Poikalainen , J. Praks, I. Veermäe, E. Kokin: Estonia	Dynamic Stabilization of Technological Systems for Processing Edge Cutting Through the Local Metastability – V.V. Maksarov, M. Madissoo : Russia & Estonia
	Study of Prior Art of Spark Ignition Engine Fuel Supply System – R. Ilves : Estonia	Improvement of the broiler house ventilation using the CFD simulation – M. Zajicek and P. Kic : Czech Republic	Behaviour and Modelling of Titanium 15-3 Alloy at a Wide Range of Strain Rates and Temperatures – T. Leemet , M. Hokka, V.T. Kuokkala: Estonia & Finland
	Simulation model of the combustion processes of a diesel engine – V. Mikita , J. Roots: Estonia	A case study of energy consumption measurement system in broiler production – M. Rajaniemi , J. Ahokas: Finland	Increasing the efficiency of external turning by using the multiple layer construction of the cutting tool holder – M. Madissoo , V.V. Maksarov: Estonia & Russia
	Characteristics describing the price formation of bioethanol used as the fuel for an internal combustion engine – A. Küüt : Estonia	The most efficient solutions of forage distribution on modern dairy cow farms – A. Salinš , M. Freimanis, R. Truhanovs, J. Priekulis: Latvia	Increasing Effectiveness of Treatment of Corrosion-Resistant Steel Using Local Cryogenic Impact – V. V. Maksarov : Russia
	Influence of different pretreatment methods on bioethanol production from wheat straw – M. Tutt , T. Kikas, J. Olt: Estonia	Simulation of anaerobic digestion of cattle manure – A. Normak , J. Suurpere, K. Orupõld, E. Jõgi, E. Kokin: Estonia	

Thursday 10.05.12	Time	Poster session (<i>Institute of Technology, second floor</i>)
	16.30 – 17.30	Motor method evaluation of fuel-air mixtures created by using qualitative and quantitative methods – V. Mikita, R. Ilves, A. Küüt: Estonia

		Characteristics describing the price formation of bioethanol used as the fuel for internal combustion engine – A. Küüt: Estonia
		Exploration of Technological Equipment for a New Bioethanol Dehydration Method – A. Rucins, K. Zihmane-Ritina, G. Bremers, G. Birzietis, A. Baltins, A. Skele, J. Bergs: Latvia
		Production of bioethanol from natural meadow biomass and herbaceous waste – M. Tutt: Estonia
		Influence of different pretreatment methods on bioethanol production from wheat straw – M. Tutt, T. Kikas, J. Olt: Estonia
		Study of Prior Art of Spark Ignition Engine Fuel Supply System – R. Ilves: Estonia
		Performance Optimization of a Rotary Mower Using Taguchi Method – S. Saeid Hosseini and Mohsen Shamsi: Iran
		Increasing the efficiency of external turning by using the multiple layer construction of the cutting tool holder – M. Madissoo, V.V. Maksarov: Estonia & Russia
		Renewable energy solution to deliver energy for a bus stop – T. Pikk: Estonia
		Computer based comparison analysis of single and double-connecting-rodandslider-crank linkages – A. Aan, M. Heinloo
		Pretreatment and usage of pulp and paper industry residues for fuels production and their energetic potential – A. Menind, L. Oper, M. Hovi, J. Kers, M. Tutt, T. Kikas: Estonia
		Biomass quality impact on swirled combustion – K. Siliņš, I. Veidenbergs, C. Rochas, D. Blumberga: Latvia
	19.00 – 22.00	Evening session at Tartu University Restoran, 20 Ülikooli Str. www.kohvik.ut.ee
Friday 11.05.12		Visits:
	10.00 – 14.00	A. Le Coq Brewery and Beer Museum , 15 Laulupeo Str., Tartu http://www.alecoq.ee/
	14.00 – 15.00	TI Laboratories : Production Engineering, Ergonomics, Energetic, 56 Kreutzwaldi Str., Tartu