

65th International Scientific Conference of Riga Technical University



**RTU Science and** Innovation Centre, "The Moon", 6A Ķīpsalas Street

## **Bioenergy Technologies and Biotechnologies**

SECTION CHAIR		SCIENTIFIC COMMITTEE		
Assoc. Prof. <b>LINDA</b> Riga Technical Univ Latvia	- '	Prof. <b>TALIS JUHNA</b> , Riga Technical University, Latvia	Assoc. Prof. <b>LINDA MEZULE</b> , Riga Technical University, Latvia	
	PRE-REG	ISTRATION REQUIRED		
9.00-9.30	REGISTRA	ATION		
9.30-9.40		AND WELCOME ADDRESS zule, Riga Technical University,		
		FIRST SESSION. Waste N	Management and Bioenergy	
9.40-10.00		ATIONAL ANALYSIS OF REGI agi, SIA "EPIC Prognostics", La	ONAL WIND ENERGY POTENTIAL IN LATVIA atvia	
10.00-10.20		S OPTIMAL WATER BALANC dratenko, <i>Riga Technical Unive</i>	E IN STORMWATER BIORETENTION FEATURES ersity, Latvia	
10.20-10.40	IN MULTI	AL FOR LEGIONELLA CONTE STOREY RESIDENTIAL BUILI mite, Riga Technical University		
10.40-11.00		K ASSESSMENT IN MUNICIF ruskevica, City of Riga, Latvia	ALITIES	
	UTILIZATION OF HAZELNUT WASTE IN PLANT STRESS TOLERANCE Deniz Ekinci, University of Oxford, United Kingdom			
11.00–11.20	Deniz Ekir	101, 0111101010, 01		

11.40-12.00	METABOLOMICS IN BIOTECHNOLOGY Kristaps Klavins, Riga Technical University, Latvia		
12.00-12.15	WOOD-DECAYING FUNGI FOR LIGNOCELLULOLYTIC ENZYME PRODUCTION AND BIOREMEDIATION PROCESSES  Anna Civzele, Riga Technical University, Latvia		
12.15-12.30	PLATELET RICH FIBRIN MATRICES AS CARRIERS FOR DRUGS AND BIOACTIVE MOLECULES Karina Egle, Riga Technical University, Latvia		
12.30-12.45	CALCIUM PHOSPHATE BONE CEMENTS FOR ANTICANCER DRUG DELIVERY Estere Oselska, <i>Riga Technical University</i> , <i>Latvia</i>		
12.45-13.00	EXPLORING BIOFILM BEHAVIOUR ON MODIFIED MEMBRANES: ROLE OF ZNO IN BIOFILM FORMATION Ralfs Vevers, Riga Technical University, Latvia		
13.00-13.20	MICROBIAL COMMUNITY DYNAMICS IN THE MESOPHILIC AND THERMOPHILIC PHASES TEXTILE WASTE COMPOSTING IDENTIFIED THROUGH NEXT-GENERATION SEQUENCING Saloua Biyada, Vilnius Gediminas Technical University, Lithuania		
13.20-13.40	ECTOPIC EXPRESSION OF MORPHOGENIC REGULATORS LEADS TO INCREASED PLURIPOTENCY OF PERENNIAL RYEGRASS L.PERENNE Anete Boroduske, University of Latvia, Latvia		
13.40-14.00	COFFEE BREAK		

## THIRD SESSION. Wastewater Technologies

14.00–14.20	APPLICATION OF NANOBUBBLE TECHNOLOGY IN WASTEWATER TREATMENT Janis Zviedris, SIA "VNK serviss", Latvia			
14.20-14.35	ENZYMATIC HYDROLYSIS OF WASTE STREAMS ORIGINATING FROM WASTEWATER TREATMENT PLANTS Ruta Zarina, Riga Technical University, Latvia			
14.35–14.50	COST EVALUATION OF FUNGAL-BASED WASTEWATER TREATMENT Brigita Dejus, Riga Technical University, Latvia			
14.50-15.10	HARNESSING MIXED METAL OXIDE ELECTRODES FOR ENHANCED ELECTROCHEMICA DEGRADATION OF DAIRY WASTEWATER  Basanti Ekka, Riga Technical University, Latvia			
15.10-16.00	POSTER PRESENTATIONS, DISCUSSION AND COFFEE INVESTIGATING THE IMPACT OF CURCUMIN, COUMARIN, AND CAFFEINE ON PSEUDOMONAS AERUGINOSA BIOFILM FORMATION IN MICROFLUIDIC CHANNELS Elizabete Beta Esenvalde			
	ANTIMICROBIAL BIOCOMPOSITES WITH CHITOSAN Aleksandrs Ivanickins			
	PRODUCTION OF POLYHYDROXYALKANOATES (PHA) IN MICROALGAE BOTRYOCOCCUS BRAUNII AND EVALUATION OF THEIR ANTIBACTERIAL PROPERTIES Jānis Naglis			
	THE COMPOSITION OF STORMWATER RUNOFF AT GAS STATIONS, THE EFFICIENCY OF EXISTING WASTEWATER TREATMENT SYSTEMS, AND SOLUTIONS Miks Mezvevers			
	HYPOSENSE – A HYPOXIA-RESPONSIVE BIOSENSOR FOR PRECISION TISSUE MICROENVIRONMENT PROFILING Alise Anna Stipniece-Jekimova			
	OPTIMIZATION OF MYCELIUM COMPOSITE MATERIAL PRODUCTION Karlis Zarins			
	PRODUCTION OF ANTIMICROBIAL MESOPOROUS BIOACTIVE GLASS AND CALCIUM PHOSPHATE COMPOSITES AND THEIR PROPERTIES  Anna Marija Vaisla			

16.00 CLOSURE