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3rd International Conference on Integrative Approaches towards sustainability

"Sustainable development, knowledge society and smart future manufacturing technologies" KNOWLEDGE

June 27-30, 2012, Jūrmala, Latvia Hotel "Jūrmala SPA", Jomas str. 47/49

Agenda

Wednesday, 27 June, 2012		
19.00	COME-TOGETHER ASSEMBLY	
Thursday, 28 June, 2012		
8.00 - 9.00	REGISTRATION	
9.00-10.30	 Welcome and opening speeches: Prof. Andrejs Silins, Chair of Latvian Council of Science and vice-president of Latvian Academy of Sciences; Dr. Arnolds Ubelis, the coordinator of FP7-ResPot project FOTONIKA-LV; On behalf of Local Organising Committee and International Scientific Boards, Prof. Uno Svedin, SE; Prof. Walter Leal Filho, DE: Coming from the Rio+20 UN Conference on Sustainable Development, Rio de Janeiro, Brazil, 20-22 June 2012 	
10.30 -11.00	COFFEE BREAK	
11.00-16.00	FIRST PLENARY:	
	Knowledge society and knowledge-based economy in the perspective of Sustainable Development	
11.00-12.30	Part 1 – Science and knowledge – the basis of social and economic prosperity Chair: Lars Ryden, SE	
11.00 -11.45	Prof. Uno Svedin, SE	
11.45 -12.30	Challenges for planetary stewardship at the entry of the period of the Anthropocen <i>Prof. Sergio Ulgiati, Silvio Viglia, Amalia Zucaro, Pier Paolo Franzese</i> , IT Not for money: A biophysical assessment of natural capital and ecosystem services	
12.30-14.00	Lunch	
14.00-16.00	Part 2 – Sustainable development and knowledge based economy in the Baltic Region - Policy of education, research, and technological development Chair: <i>Janis Abolins, LV</i>	
14.00-14.30	Prof. Lars Ryden, SE Is local energy supply a main road to sustainability? - strategic and theoretical questions	
14.30-15.00	Prof. Walter Leal Filho, DE & Ruta Bendere, LV Approaches to Sustainable Waste Management in the Baltic	
15.00-15.30	Dr. Mikko Jokinen, FI Biogas as sustainable local fuel solution for public transport	

15.30-16.00	Pier Paolo Franzese, IT & Tiina Häyhä, FI
70.00 70.00	Assessing the Economic and environmental Performance of Electricity Production at
	National Level: The Case of Finland
16.00 -16.30	Coffee Break
16.30-17.30	ROUND TABLE DISCUSSION
10.30-17.30	Moderator Prof. Uno Svedin
	Sustainable development and Knowledge society
17.30 -18.30	POSTER SESSION
	8.00 – 19.00; Standby part of poster session 17.30-18.30
	A1. Egils Bogans, LV - Analysis of Mercury Pollution in Air in Urban Area of Riga using Atomic
Α	Absoprtion Spectrometry
SOCIAL	A2. Anastasia Pavlova, RU - Investigation of the Influence of Corporate Social and
CORPORATE RESPONSIBILITY	Environmental Responsibility on the Energy Efficiency of Russian Companies
AND	A3. Renata Putkowska, PL - Greener, smarter, CSRA5. Aigars Stals, LV - Environmental and health friendly food governance at municipal region:
ENVIRONMENT	audit and communication developments
Chairperson:	A6. Anna Survillo, LV - Social Corporate Responsibility Awareness through Environmental
Jana Simanovska	Management System Implementation in Latvian Universities
	A8. Greg MacDonald, LV – Innovation Productivity Carrousel
	B1. Martins Andzs, LV - Steam Exploded Hemp Shives as a Sustainable source of Material for
	Building Insulation B2. Ladislav Bakay, SK - Urban trees: Which future?
В	B3. Alexey Cherevan, DE - Nanocarbon-metal oxide hybrids for photocatalytic hydrogen
SCIENCE	production
ON/ FOR	B4. Olga Krukowskaya, BY - Cost-effectiveness of nitrogen oxides emission abatement
SUSTAINABLE DEVELOPMENT	technologies in Europe
	B6. Aleksandra Nesic, RS - Preparation and characterization of novel biodegradable material
Chairperson:	based on chitosan and poly(itaconic acid) as adsorbent for removal Reactive Orange 16 dye from wastewater
Dr. Janis Abolins	B7. Olesya Timofievich, BY - Territorial Management Peatlands to reduce Greenhouse Gas
	Emissions
	B8. David Oscar Vella, MT - An Investigation on the Effect of Environmental Degradation on
	Glass Fibre Reinforced Composite Material Properties
С	C1. Edvinas Krugly, LT - DBD plasma for decomposition of hardly degradable organic
SMART FUTURE	pollutants C2. Ekaterina Krukovskaya, BY - Emission of Hotbed Gases from the Surface of Sludge
MANUFACTURING AND ZERO	Platforms of Biological Cleaning Constructions
EMISSION	C3. Jonas Matulevicius, LT - Utilization of polystyrene waste for nanofiber air filter production
CONCEPT	C4. Anna Putnina, LV - Innovative technologies for products from renewable resources
Chairperson:	C6. Ineta Liepina, Gunars Bajars, Andrejs Lusis, Liga Grinberga, Janis Kleperis,
Prof. Janis Gravitis	Evalds Pentjuss, LV - Preparation and characterization of TiO2 thin films by particulate sol-
	electrophoretic deposition D1. <i>Mantas Aliukonis</i> , LT - Sustainable Development, Knowledge Society and Knowledge
D	Based Economy
SUSTAINABLE	D2. Adam Choryński, PL - Adaptation to extreme rainfall in Poland – what decisions
DEVELOPMENT,	municipalities take and why
KNOWLEDGE SOCIETY AND	D3. Nina Drejerska, PL - Is sustainability possible in suburbs of big cities?
KNOWLEDGE	D4. Justyna Gutowska, PL - Nature Conservation - an Opportunity for Local Development
BASED ECONOMY	D6. Anita Lontone, LV - Sustainability triple bottom line management enhancement for municipal level: integrated governance environment dimension
Chairperson:	D8. <i>Irina Petrova</i> , DE - Cluster Development in the European Union: Defining the Role of the
Dina Bērziņa	Regional Level
	D9. <i>M.Pikšēns</i> , LV - Involvement of secondary school students in urban planning – case
	example from Liepāja

	Friday, 29 June, 2012		
9.00-13.30	SECOND PLENARY:		
	Worldwide expertise and expectations: Sustainable development and future manufacturing		
9.00-11.00	Part 1 – Public Private Partnership		
	Chair Dr. Arnolds Ubelis		
9.00-9.30	Prof. Uno Svedin, SE Global strategies for Agriculture and/or issues providing foresights for the EU on urban issues		
9.30-10.00	Prof. Rodrigo Martins, PT & Paul Siffert, FR & Elvira Fortunato, PT SKYPE lecture - Materials Challenges of Future		
10.00-10.30	Dr. Andrea Reingardt, DE SKYPE lecture - NANOfuture - European Platform on Nanotechnologies,		
10.30-11.00	http://www.nanofutures.eu/ Ms. Ursula Tober, DE Technology Platform Photonics 21, www.photonics21.org		
11.00-11.30	COFFEE BREAK		
11.30-13.30	Part 2 – Academic view		
	Chair Prof. Sergio Ulgiati		
11.30-12.00	Dr. Arnolds Ubelis, Dina Berzina, LV Degree of unified approach for Sustainable development, knowledge society and smart future manufacturing technologies on the work programme and project level in FP6, FP7 and in pending HORIZON 2020		
12.00-12.30	Prof. Lars Ryden, SE		
12.30-13.00	Sustainable production and consumption - is technology the answer? Prof. Janis Gravitis, LV		
13.00-13.30	Zero Emissions and Biorefineries for Materials, Chemicals and Energy: The Mysterious Concepts and Reality Dr. Daiva Jakutyte-Walangitang, AT Energy for smart cities - an integral part of sustainable urban development		
13.30-15.00			
15.00- 16.30	PARALLEL SESSIONS		
A SOCIAL CORPORATE RESPONSIBILITY AND ENVIRONMENT Moderator: Jana Simanovska	 Jana Simanovska, LV – Importance of awareness raising and education for promotion of green public procurement in municipalities Lana Saksone, LV – Long term nonformal environmental education - a key to qualitative involvement of society in sustainable development Paula Lindroos, SE – Baltic University programme, SKYPE lecture Chairperson report from poster session 		
B SCIENCE ON/FOR SUSTAINABLE DEVELOPMENT Moderator: Dr. Arnolds Ubelis	 Amalia Zucaro, Salvatore Mellino, Marco Ascione, Sergio Ulgiati, IT – Exploring the Dependence of Urban Systems on the Environment Roman Viter, UA & Arnolds Ubelis, LV – "Biosensors for Agriculture" an transnational research capacity building and development project Janis Spigulis, LV – Biophotonics for sustainable development Chairperson report from poster session 		

C SMART FUTURE MANUFACTURING AND ZERO EMISSION CONCEPT	 Karlis Agris Gross, LV & C. Rey, FR – Using nature's building strategy for producing bioactive calcium phosphates Ruta Bendere, Dace Arina, Inara Teibe, LV – Emissions of Green House Gasses and Climate Politics in the Waste Sector Chairperson report from poster session 	
<i>Moderator:</i> Prof. Janis Gravitis		
SD INDICATORS OF KNOWLEDGE SOCIETY AND KNOWLEDGE BASED ECONOMY	 Salvatore Mellino, Sergio Ulgiati, IT – Emergy-GIS (Geographical Information System) assessment in support of environmentally sound land-use Janis Abolins, Janis Gravitis, LV – Limits to sustainable yields of biomass for fuels and chemicals Lars Ryden, SE – Sustainable development as management of limited resources - addressing the environmental, economic and social dimensions of sustainability 	
<i>Moderator:</i> Prof. Lars Ryden	 4. Dina Bērziņa, LV – Smart Cities - imposed requirement or preferred life-style 5. Chairperson report from poster session 	
19.00	CONFERENCE EVENT	
Saturday, 30 June, 2012		
9.30-11.30	ROUND TABLE DISCUSSION, Moderator Dr. Miko Jokinen:	
	EU Strategies, Policies and expected progress in the context of outcomes from UN Conference on Sustainable Development Rio+20, 20-22 June, 2012: www.uncsd2012.org/rio20	
11.30-12.30	CLOSING REMARKS AND FAREWELL COFFEE	