### Agenda

**Wednesday, 27 June, 2012**

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<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>19.00</td>
<td>COME-TOGETHER ASSEMBLY</td>
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**Thursday, 28 June, 2012**

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<tr>
<th>Time</th>
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<tr>
<td>8.00</td>
<td>Registration</td>
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| 9.00-10.30 | Welcome and opening speeches:  
|          |   - Prof. Andrejs Sīlins, 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 |
| 11.00-11.45 | Part 1 – Science and knowledge – the basis of social and economic prosperity  
|           | Chair: Lars Ryden, SE |
| 11.45-12.30 | Challenges for planetary stewardship at the entry of the period of the Anthropocene  
|           | Prof. Sergio Ulgiati, Silvio Viglia, Amalia Zucaro, Pier Paolo Franzese, 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: Janis Abolins, LV |
| 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  
<p>|             | Biogas as sustainable local fuel solution for public transport |</p>
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<tr>
<td>15.30-16.00</td>
<td>Pier Paolo Franzese, IT &amp; Tiina Häyhä, FI</td>
<td>Assessing the Economic and environmental Performance of Electricity Production at National Level: The Case of Finland</td>
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<td>16.00 -16.30</td>
<td>COFFEE BREAK</td>
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| 16.30-17.30 | ROUND TABLE DISCUSSION                                              | 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                                                                                                                                           |
| A          | SOCIAL CORPORATE RESPONSIBILITY AND ENVIRONMENT                     | Chairperson: Jana Simanovska
A2. Anastasia Pavlova, RU - Investigation of the Influence of Corporate Social and Environmental Responsibility on the Energy Efficiency of Russian Companies
A3. Renata Putkowska, PL - Greener, smarter, CSR
A5. Aigars Stals, LV - Environmental and health friendly food governance at municipal region: audit and communication developments
A6. Anna Survillo, LV - Social Corporate Responsibility Awareness through Environmental Management System Implementation in Latvian Universities
A8. Greg MacDonald, LV – Innovation Productivity Carrousel                                                                                                                                 |
| B          | SCIENCE ON/ FOR SUSTAINABLE DEVELOPMENT                             | Chairperson: Dr. Janis Abolins
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?
B3. Alexey Cherevan, DE - Nanocarbon-metal oxide hybrids for photocatalytic hydrogen production
B4. Olga Krukowskaya, BY - Cost-effectiveness of nitrogen oxides emission abatement technologies in Europe
B6. Aleksandra Nescic, RS - Preparation and characterization of novel biodegradable material based on chitosan and poly(itaconic acid) as adsorbent for removal Reactive Orange 16 dye from wastewater
B7. Olesya Timofievich, BY - Territorial Management Peatlands to reduce Greenhouse Gas Emissions
| C          | SMART FUTURE MANUFACTURING AND ZERO EMISSION CONCEPT                | Chairperson: Prof. Janis Gravitis
C1. Edvinas Kruglys, LT - DDB plasma for decomposition of hardly degradable organic pollutants
C2. Ekaterina Krukovskaya, BY - Emission of Hotbed Gases from the Surface of Sludge Platforms of Biological Cleaning Constructions
C3. Jonas Matulevicius, LT - Utilization of polystyrene waste for nanofiber air filter production
C4. Anna Putnina, LV - Innovative technologies for products from renewable resources
C6. Ineta Liepina, Gunars Bajars, Andrejs Lusis, Liga Grinberga, Janis Kleperis, Evalds Pentjuss, LV - Preparation and characterization of TiO2 thin films by particulate sol-electrophoretic deposition |
| D          | SUSTAINABLE DEVELOPMENT, KNOWLEDGE SOCIETY AND KNOWLEDGE BASED ECONOMY | Chairperson: Dina Bērziņa
D1. Mantas Aliukonis, LT - Sustainable Development, Knowledge Society and Knowledge Based Economy
D2. Adam Choryński, PL - Adaptation to extreme rainfall in Poland – what decisions municipalities take and why
D3. Nina Drejerska, PL - Is sustainability possible in suburbs of big cities?
D6. Anita Lontone, LV - Sustainability triple bottom line management enhancement for municipal level: integrated governance environment dimension
D8. Irina Petrova, DE - Cluster Development in the European Union: Defining the Role of the Regional Level
D9. M. Pikššins, LV - Involvement of secondary school students in urban planning – case example from Liepāja
### Friday, 29 June, 2012

**SECOND PLENARY:**

*Worldwide expertise and expectations: Sustainable development and future manufacturing*

#### 9.00-11.00

**Part 1 – Public Private Partnership**  
Chair Dr. Arnolds Ubelis

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| 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  
| 10.30-11.00 | Ms. Ursula Tober, DE  

**COFFEE BREAK**

#### 11.30-13.30

**Part 2 – Academic view**  
Chair Prof. Sergio Ulgiati

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| 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  
Sustainable production and consumption - is technology the answer? |
| 12.30-13.00 | Prof. Janis Gravitis, LV  
| 13.00-13.30 | Dr. Daiva Jakutyte-Walangitang, AT  
Energy for smart cities - an integral part of sustainable urban development |

**LUNCH**

#### 15.00-16.30

**PARALLEL SESSIONS**

**A SOCIAL CORPORATE RESPONSIBILITY AND ENVIRONMENT**  
Moderator: Jana Simanovska

1. Jana Simanovska, LV – Importance of awareness raising and education for promotion of green public procurement in municipalities
2. Lana Saksone, LV – Long term nonformal environmental education - a key to qualitative involvement of society in sustainable development
3. Paula Lindroos, SE – Baltic University programme, SKYPE lecture
4. Chairperson report from poster session

**B SCIENCE ON/FOR SUSTAINABLE DEVELOPMENT**  
Moderator: Dr. Arnolds Ubelis

2. Roman Viter, UA & Arnolds Ubelis, LV – “Biosensors for Agriculture” an transnational research capacity building and development project
3. Janis Spigulis, LV – Biophotonics for sustainable development
4. Chairperson report from poster session
| SMART FUTURE MANUFACTURING AND ZERO EMISSION CONCEPT | 1. Karlis Agris Gross, LV & C. Rey, FR – Using nature’s building strategy for producing bioactive calcium phosphates  
2. Ruta Bendere, Dace Arina, Inara Teibe, LV – Emissions of Green House Gasses and Climate Politics in the Waste Sector  
3. Chairperson report from poster session |
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| SD INDICATORS OF KNOWLEDGE SOCIETY AND KNOWLEDGE BASED ECONOMY | 1. Salvatore Mellino, Sergio Ulgiati, IT – Emergy-GIS (Geographical Information System) assessment in support of environmentally sound land-use  
2. Janis Abolins, Janis Gravitis, LV – Limits to sustainable yields of biomass for fuels and chemicals  
3. Lars Ryden, SE – Sustainable development as management of limited resources - addressing the environmental, economic and social dimensions of sustainability  
4. Dina Bērziņa, LV – Smart Cities - imposed requirement or preferred life-style  
5. Chairperson report from poster session |
| Moderator: Prof. Lars Ryden                          |

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<th>19.00</th>
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<td><strong>Saturday, 30 June, 2012</strong></td>
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<tr>
<td>11.30-12.30</td>
<td>CLOSING REMARKS AND FAREWELL COFFEE</td>
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