



CIE
CENTER FOR
INDUSTRIAL
ECOLOGY

2nd DISCUSSION FORUM ON INDUSTRIAL ECOLOGY AND LIFE-CYCLE MANAGEMENT
Coimbra, March 5-6 2015
PROGRAM

March 5 th		
10.00	Registration	
10.30	Opening Session	
10.45	Introduction to the Energy for Sustainability Initiative	António Gomes Martins <i>EfS, University of Coimbra</i>
11.00	KEYNOTE LECTURE* LIFE CYCLE SUSTAINABILITY ASSESSMENT: EXTENDING THE SCOPE OF LCA	Roland Clift <i>University of Surrey</i> Chair: Fausto Freire
12.00	Introduction to the workshop sessions	Fausto Freire
Session 1 - Extended LCA approaches I		Chair: Luís Dias
12.10	Building an impact assessment method for green water flows	Paula Quinteiro <i>University of Aveiro</i>
12.30	Virtual water transfers via the power grid: water embodied in electricity trade between regions	Elliot J. Cohen <i>Columbia University</i>
12.50	Definition of mid-point and end-point categories in social life cycle assessment	Miguel Simões <i>University of Lisbon</i>
13.10	Environmental and social impacts of sugarcane production in São Paulo considering different harvesting systems	Chongyang Du <i>University of Coimbra</i>
13.45	Lunch	
Session 2 - Bioenergy		Chair: Érica Castanheira
15.00	LCA of the biodiesel production in Spain driven by optimization criteria	Neus Escobar <i>Polytechnic University of Valencia</i>
15.20	Do methodological choices really matter in the life cycle assessment of bioenergy systems?	Miguel Brandão <i>IEA Bioenergy Task 38</i>
15.40	Energy requirements for the continuous biohydrogen production from spirogyra biomass in a sequential batch reactor	Joana Ortigueira <i>Portuguese National Laboratory for Energy and Geology (LNEG)</i>
16.00	Life cycle assessment (LCA) of rapeseed methyl ester (RME) addressing uncertainty	João Malça <i>Polytechnic Institute of Coimbra</i>
16.30	Coffee break	
Session 3 - Extended LCA approaches II		Chair: Luiz Kulay
17.00	Supply chain optimization accounting for life cycle assessment – the impact of product environmental footprint	Bruna Mota <i>University of Lisbon</i>
17.20	Cost optimization of biodiesel blends of waste and virgin oil addressing feedstock compositional variability and life cycle impacts	Carla Caldeira <i>University of Coimbra</i>
17.40	Improvement of the toxicological assessment based on limits imposed by REACH regulation	Carlos Ferreira <i>University of Coimbra</i>
18.00	The fossilization of the Brazilian electric matrix under the life-cycle assessment perspective	Ricardo Dinato <i>Getulio Vargas Foundation</i>
18.30	Closing remarks	João Malça



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March 6 th		
8.45	Registration	
9.00	KEYNOTE LECTURE* URBAN METABOLISM	Paulo Ferrão <i>University of Lisbon</i> Chair: Carlos H. Antunes
Session 4 - Urban systems		Chair: José Costa
10.00	Life-cycle assessment of passive construction: strategies for a residential building	Helena Monteiro <i>University of Coimbra</i>
10.20	Integrating user transportation in the life-cycle assessment of buildings	Joana Bastos <i>University of Coimbra</i>
10.40	A dynamic fleet-based life-cycle approach to assess greenhouse gas emissions from electric vehicle adoption	Rita Garcia <i>University of Coimbra</i>
11.00	Coffee break	
Session 5 - Forest and agri-food systems		Chair: Luís Arroja
11.30	Industrial symbiosis potential in traditional industries: the case of the fish canning industry in Portugal	Ana Coelho <i>University of Porto</i>
11.50	Synergies for decentralized biogas and fertilizer production	Luis Ferreira <i>University of Lisbon</i>
12.10	Barriers and opportunities of waste valorisation in rice agroindustry	Nuno Lapa <i>Nova University of Lisbon</i>
12.30	Integrated simulation-optimization approach for ecodesign of food manufacturing processes	Alicja Sobantka <i>French National Institute for Agricultural Research</i>
12.50	End-of-life management strategies for natural cork stoppers through life cycle assessment	Martha Demertzi <i>University of Aveiro</i>
13.30	Closing remarks	Roland Clift and Paulo Ferrão
13.45	Lunch and networking	

*Session open to the University of Coimbra community. The attendance of other sessions of the Forum requires registration.

This Discussion Forum is organized under the project **Extended “well-to-wheels” assessment of biodiesel for heavy transport vehicles** (PTDC/SEN-TRA/117251/2010), supported by Fundação para a Ciência e a Tecnologia (FCT).