

## 50<sup>th</sup> LCA Discussion Forum

### **WATER IN LCA: WHICH ASSESSMENT TECHNIQUES ARE EMERGING OR READY? INCLUDING LOTS OF CHALLENGING ASPECTS**

**December 4<sup>th</sup>, 2012, ETH Zurich, GEP-Pavillon**

We kindly invite you to a **special discussion forum on Life Cycle Assessment**  
The official event language is English

Water-related issues have been considered in LCA in various ways, from the long-standing eutrophication, acidification and ecotoxicity methods, to the more recent water consumption aspects. Four years on from the first discussion forum on water in LCA, many developments have been made, resulting in a rich palette of approaches. Significant challenges still remain, related to the complexity of water systems and ecosystems. New challenges have emerged, such as how to fit these “pieces” together to form a coherent and comprehensive approach for assessing the impacts of water use (both degradative and consumptive). This discussion forum will present the current status of water use assessment in LCA, give some examples of experiences in application, and identify new and remaining challenges where future effort could be concentrated.

For the first time the Discussion Forum will be available via live web streaming on <http://www.multimedia.ethz.ch/live>.

Access to the live-streaming is free but a username and password is required.

To gain access to the online platform please contact Catherine Raptis ([raptis@ifu.baug.ethz.ch](mailto:raptis@ifu.baug.ethz.ch)) indicating:

- a) Affiliation and
- b) envisaged number of online viewers per institution.

This information will allow us to appreciate the usefulness of organising live web streaming for future Discussion Forums.

The 50th anniversary of the discussion forum will be celebrated with an apéro offered by treeze at the end of the day.

## Programme

TIME	TITLE	SPEAKER	AFFILIATION
8:30	Registration, coffee		
9:00	Welcome	Catherine Raptis, Danielle Tendall, Francesca Verones	ETHZ, Switzerland
9:10	Water footprinting: where are we now?	Anne-Marie Boulay	CIRAIG, Canada
<b>Recent developments</b>			
9:25	Quantifying impacts of water use on wetlands of international importance	Francesca Verones (FV)	ETHZ, Switzerland
9:45	Endpoint characterization factors for freshwater eutrophication: testing different methods to obtain effect factors	Ligia Azevedo	Radboud University Nijmegen, The Netherlands
10:05	Deriving an effect factor for the assessment of nitrogen emissions in brackish waters	Anastasia Papangelou	ETHZ, Switzerland
10:15	Discussion		
10:30	Coffee break		
<b>Challenges/emerging topics</b>			
11:00	Advanced Water Stress Index	Stephan Pfister	ETHZ, Switzerland
11:20	Integrating GIS-based regionalization into LCA calculations: the example of water	Chris Mutel	ETHZ, Switzerland
11:40	Size and site matter: the case of river water use	Danielle Tendall (DT)	ART, Switzerland
12:00	Assessing water deprivation at the sub-watershed scale in Life Cycle Assessment	Philippe Loubet	Veolia/Irstea, France
12:10	Discussion		
12:30	<i>Lunch break</i>		
<b>Short presentations</b>			
13:30	WULCA task #3: Quantitative comparison of water impact assessment methods	Anne-Marie Boulay	CIRAIG, Canada
13:40	LCA water footprint methods and inventory datasets – What are the requirements? Where are the gaps?	Stefanie Markwardt	Institute for Energy and Environmental Research Heidelberg GmbH, Germany
13:50	A low-effort approach to determine water use from cradle-to-grave	Bettina Joa	Pforzheim University, Germany
<b>Applications and experiences</b>			
14:00	Water Footprint of Volkswagen Passenger Cars – Results and Challenges	Markus Berger	TU Berlin, Germany
14:20	Water, Environment and Economy: WWF's experiences	Felix Gnehm	WWF Switzerland
14:40	Water footprinting: case studies in the food and beverage sector, learnings and gap identification	Samuel Vionnet, Lindsay Lessard, Sébastien Humbert	Quantis, Switzerland
15:00	Discussion		
15:20	<i>Coffee break</i>		

Workshop			
15:50	Input (topics, summary)	CR, DT, FV	ETHZ, Switzerland
16:00	Discussion		
16:30	Plenary, Summary of outcomes		
16:50	Wrap-up	CR, DT, FV	ETHZ, Switzerland
17:00	<i>50<sup>th</sup> anniversary LCA DF: Apéro offered by treeze</i>		