



## 63<sup>rd</sup> LCA Discussion Forum

### HOW CAN LCA SUPPORT THE CIRCULAR ECONOMY?

Wednesday, 30 November 2016, ETH Zürich, Alumni Pavilion

We cordially invite you to the **63<sup>rd</sup> Discussion Forum on Life Cycle Assessment**

The official language of this event is English

The concept of Circular Economy is gaining popularity in Europe and elsewhere. Both the recycling of waste and a (recycling friendly) eco-design are components of a Circular Economy. How can LCA support the creation of a Circular Economy? How can LCA be used to ensure a positive balance of efforts and benefits? How shall substituted materials and products be accounted for, who can claim the benefit, and how is resource quality taken into consideration? How can wastes and resources be managed to minimize their environmental impacts? How can products be designed in an eco-friendly manner to close material cycles?

The 3<sup>rd</sup> discussion forum this year will give the floor to representatives from industry, authorities, academics, and organisations to present new applications and approaches of LCA in combination with various other environmental assessment tools (e.g. MFA, LCA and/or mathematical optimization) to manage wastes and resources sustainably and to support decision-making towards a circular economy. A focus will be laid on factors relevant for the benefits of the circular economy, such as waste and resource quality aspects and their influence on the recycling system, as well as product quality. Finally, examples of LCA applications for eco-design, waste management and systemic analyses across sectors will be shown.

We look forward to meeting you in Zürich

Melanie Haupt, ESD/ETH Zürich  
Organizing Committee

Mischa Zschokke, Carbotech AG

## Programme:

Time	Approximate content of talks	Speakers [Moderators]
8:30	Registration, coffee & croissants	
9:00	Welcome and introduction	Mischa Zschokke
	Circular Economy: Policy and Politics	[Mischa Zschokke]
9:05	Valuation of Circular economy in Swiss environmental policy	Anders Gautschi (BAFU)
9:30	Accelerating Towards a Circular Economy	Dale Walker (Ellen MacArthur Foundation)
10:00	Circular Economy in the context of other sustainability concepts: how can it work in the food industry?	Urs Schenker (Nestlé)
10:25	Coffee break	
	Research – How can LCA support the Circular Economy?	[Melanie Haupt]
10:45	Life-cycle costing of food waste prevention and importance of indirect effects	Prof. Thomas Astrup (DTU)
11:15	Recycling and LCA: choices and results	Cornelia Stettler (Carbotech AG)
11:40	Recycling contaminants: chemicals in the paper product cycle	David Laner (TU Vienna)
12:10	Managing waste for an efficient and clean Circular Economy: indicators and tools	Melanie Haupt (ETH Zürich)
12:40	Lunch	
	Panel discussion	[Melanie Haupt]
13:40	Questions to discuss: – How can LCA be incorporated in the circular economy framework? – How much circularity does economy need? – How can circularity be measured?	Thomas Astrup (DTU) Raphael Fasko (Rytec AG) Stefanie Hellweg (ETH Z.) David Laner (TU Vienna) Dale Walker (Ellen MacArthur Foundation)
14:15	Coffee break	
	Applying circular economy in practice – short presentations	[Mischa Zschokke]
14:35	Urban Mining for a Circular Economy	Sonia Valdivia (World Resources Forum)
14:50	Challenges in LCA modelling of multiple loops for aluminium cans	Monia Niero (DTU)
15:05	Recommendations about how to model substituted materials based on the LCA case study of the construction and demolition waste management in Lombardy	Lucia Rigamonti (Politecnico di Milano)
15:25	Industrial Symbiosis and LCA	René Itten (ZHAW)
15:45	Strengthening the transition to Circular Economy by LCM: an industrial case	Melanie Guiton (LIST)
16:05	Business models for Circular Economy	Raphael Fasko (Rytec AG)
	Wrap-up, announcements & farewell	
16:20	Wrap-up	Melanie Haupt
16:25	Announcements	Stefanie Hellweg
16:30	Farewell	



## Practical information

### Registration

To register for the 63<sup>rd</sup> DF, please use the following link:

<http://www.registration.ethz.ch/eventolight/>

At the first instance you visit this Website you will be asked to create an account. Afterwards, please login with the information that is sent to you by email. Please click on “published events”, then select “Discussion forum on life cycle assessment 2016” and then click “Anmelden”. Afterwards, please follow the instructions.

Programme updates will be available at: [www.lcaforum.ch](http://www.lcaforum.ch)

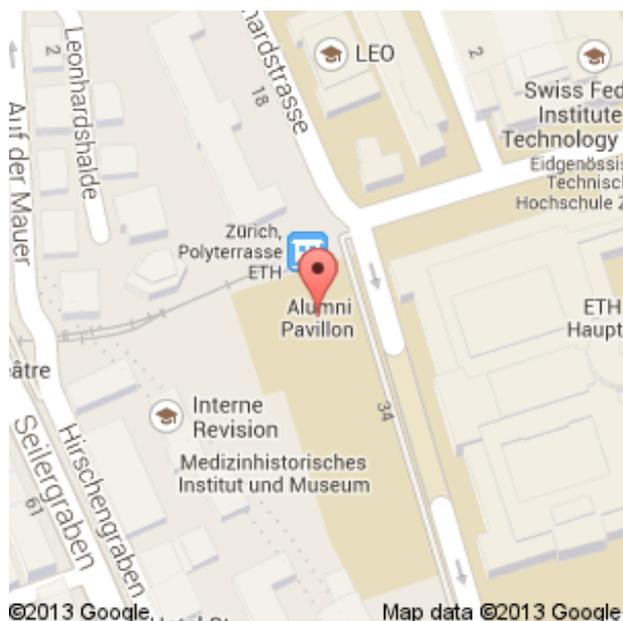
### Lunch

Vouchers for lunch at the ETH restaurant will be provided to all participants. A vegetarian meal option is always on offer.

### Location

The DF will take place in the Alumni (GEP) Pavillon, Swiss Federal Institute of Technology Zurich, 8001 Zurich.

<https://maps.google.ch/maps/ms?msa=0&msid=205813047619347088253.0004e0af154b1fc2c1968&ie=UTF8&ll=47.376616,8.546441&spn=0.00287,0.006968&t=m&z=18&vpsrc=6&iwloc=0004e0af154df9d0190e4>



For further information, please contact Barbara Dold: [lcaforum@ethz.ch](mailto:lcaforum@ethz.ch)