



International Symposium
Life Cycle Assessment and Construction
Civil engineering and buildings

Lca & construction 2012

INVITATION AND CALL FOR PAPERS



IFSTTAR



le futur en construction

Nantes (France)

July 10-12, 2012

Numerous research activities about LCA applied to buildings and more recently to civil engineering, have risen over the past decades. Environmental stakes are particularly important in construction because any initial decision always has long term consequences. In addition, the construction sector both generates and recycles huge amounts of waste; it is generally considered as an important contributor to climate change and induces irreversible changes in local environments. To face these stakes, industries invest into so-called “green innovations”, and national or local public authorities are demanding scientifically based decision support such as LCA.

For the time being, this LCA research appears to be fragmented between LCA practitioners in various construction fields and LCA methodologists. However, LCA practitioners in the construction sector share identical methodological questions. For example, drastic variations that inevitably occur between the early and operational stages of construction projects have led many research institutions to develop their own dedicated LCA software tools. These tools are however seldom comparable, since they generally use different databases and assumptions. Only close cooperation between LCA methodologists and construction scientists can lead to relevant methodological developments and harmonized assessments.

The symposium aims at grouping disparate research communities to create a forum for the exchange of recent developments and research results amongst researchers. It also aims at providing an insight into societal demands in the civil engineering and buildings sectors. The symposium will thus be organized over three days. The first two days will be devoted to scientific presentations; the last day will deal with public policies and standardization in the field, on the base of invited presentations.

In this context, IFSTTAR (resulting from the merger of LCPC and INRETS) and CSTB, in partnership with the International Union of Laboratories and Experts in Construction Materials, Systems and Structures (RILEM), the International Society for Industrial Ecology (ISIE), and the Society of Environmental Toxicology and Chemistry (SETAC) invite you to participate and submit a paper to the International Symposium on LCA and Construction 2012.

Publications

Papers will be selected using a rigorous peer review system. Accepted papers will be presented at the meeting during the first two days or presented in posters sessions. All accepted papers selected for oral presentation will be published in the proceedings of the symposium. The papers will be registered in the Web of Science (WoS), through RILEM publication.

Official language of the symposium is English. Template and instructions to Authors are available on the Web site.

Organizing committee

Anne Ventura (IFSTTAR), Sébastien Lasvaux (CSTB), Chantal de la Roche (IFSTTAR), Kristel Hermel (IFSTTAR), Emmanuelle Pichot (IFSTTAR), Annick Lalloret (IFSTTAR), Adélaïde Feraille (École des Ponts ParisTech), Guillaume Habert (IFSTTAR), Yannick Tardivel (SETRA), Christian Tessier (IFSTTAR)

Scientific committee

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Hoang	Tung	Natl. U. Civil Engineering	Viet Nam	Tardivel	Yannick	SETRA	France
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Kellenberger	Daniel	Intep / Ecoinvent	Switzerland	Zamagni	Alessandra	ENEA	Italy

Key dates

Beware: No call for abstracts – Direct call for papers

November 15, 2011
March 1, 2012
March 15, 2012
April 1, 2012
May 1, 2012
July 10-12, 2012

Deadline for paper submission (8 pages)
Review results from the Scientific Committee
Opening of the Registration process
Final version of accepted papers
End of early bird registration
Symposium

Provisional Program

	July 10	July 11	July 12
Topics	Scientific exchanges		Societal expectations
Morning	Opening session and keynote lecture	Scientific session	Standardisation and public policies
	<i>Morning break and posters</i>		
	Scientific session	Scientific session	Standardisation and public policies
Afternoon	<i>Lunch break and posters</i>		
	Scientific session	Scientific session	Round Table
	<i>Afternoon break and posters</i>		
	Scientific session	Scientific session	Closing session
Evening	<i>Cocktail</i>	<i>Banquet</i>	

Topics

LCA methodology

Life Cycle Inventory data
 Recycling and allocation issues
 Impact assessment of resources consumption
 Site-specific impact assessment
 LCA and decision processes
 Dynamic LCA and service life
 New methodological developments

Construction

Materials, products and technologies
 Earthworks
 Buildings
 Transportation infrastructures
 Roads
 Tunnels, bridges
 Railways
 Others
 Transportation modes
 Infrastructures for energy production
 Infrastructures for wastes and water treatment
 Dedicated softwares and databases

Contact information

Website

<http://lca-construction2012.ifsttar.fr>

Instructions to authors and templates are available on the website.

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