

Life Cycle Thinking (LCT) is rapidly emerging as an essential approach for both private and public sectors. Indeed, life-cycle information is nowadays considered crucial to guide policy decisions and business strategies in many contexts. Policy makers have to promote sustainable consumption and production strategies to respond to national and international environmental challenges, by gathering baseline and future-oriented environmental impact information for market-oriented policies and developing strategies for resource efficiency and eco-design. Private businesses have to improve efficiency to boost margins and competitiveness, while contributing to sustainability. Thus, LCT and product sustainability are operational to reduce their environmental and socioeconomic burdens, while maximizing economic and social value.

The aim of the 12th Conference of the Italian LCA network is to discuss about the role of the LCT approach as a decision-making aid in the definition of strategies for sustainability, thus supporting both public and private businesses in making more informed decisions. Benefits will be: better policies with clear environmental and social objectives, more sustainable business strategies, environmentally friendly product design, and improved life quality driven choice.

Topics

- 1 - Life Cycle Thinking methods and tools in public policies: experiences, limitations and perspectives
- 2 - Life Cycle Thinking methods and tools in private businesses: experiences, limitations and perspectives
- 3 - Life Cycle Thinking and Circular Economy: policies and practices
- 4 - Life Cycle Thinking and the UN Sustainable Development Goals
- 5 - Methodological developments of LCA, LCC, S-LCA and integrated Life Cycle Sustainability Assessment

Conference Venue

11th-12th June 2018
University of Messina, Department of Economics, Messina (Italy) - Piazza Pugliatti, 1

Organizing Committee

Marco Ferraro, Giuseppe Ioppolo, Marina Mistretta, Francesco Pira, Andrea Raggi, Serena Righi, Giuseppe Saija and Roberta Salomone, Rete Italiana LCA

Contact

convegnoretelca2018@gmail.com

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The conference is sponsored by:



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Life Cycle Thinking

in decision-making for sustainability:
from public policies to private businesses

The XII Italian LCA Network Conference
The VII Italian LCA Network Association Conference



PROGRAM

June 11th, 2018 – Monday

08.30 - 09.00

Registration to Italian LCA Network Conference

Conference Desk - Rectorate Main Hall - Ground floor

09.00 - 09.30

Italian LCA Network Conference - Opening ceremony

Aula Magna of the University of Messina (Central Campus) - First floor

Salvatore Cuzzocrea *Rector of the University of Messina*
Augusto D'Amico *Director of the Department of Economics*
Maurizio Cellura *President of the Italian LCA Network*
Roberta Salomone *Conference Chair*

09.30 - 11.00

SESSION I (in Italian language)

LCA, LOCAL GOVERNMENTS, AND CIRCULAR ECONOMY

Aula Magna of the University of Messina (Central Campus) - First floor

Chairs: Maurizio Cellura – University of Palermo
Giuseppe Saija – University of Messina

EU Policies for ENERGY Research: the SET Plan and the new 2018-19 Horizon 2020 Work Program

Riccardo Basosi – *Italian Permanent Representative H2020 Energy EU Programme and MIUR Delegate in the SET Plan Steering Committee*

Life Cycle Assessment of electrochemical storage technologies

Marco Ferraro – *CNR-ITAE*

European Environmental Footprint methods: status update and future outlook

Michele Galatola – *European Commission - DG Environment - Sustainable Production, Products & Consumption*

The Accredia's experience in environmental conformity assessment, supporting LCA-based activities

Filippo Trifiletti – *General Director ACCREDIA*

11.00 - 11.30

Coffee break

Courtyard of the University of Messina (Central Campus)

11.30 - 13.00

SESSION II ENERGY AND BUILDING

Aula Magna of the University of Messina (Central Campus) - First floor

Chairs: Giuseppe Ioppolo – University of Messina
Marina Mistretta – Mediterranea University

Comparative LCA of renovation of buildings towards the nearly Zero Energy Building

Grazia Barberio – *ENEA*

Life Cycle Analysis of an innovative component for the sustainability in the building sector

Maria Laura Parisi – *University of Siena*

Life Cycle Assessment of building end of life

Serena Giorgi – *Politecnico di Milano*

ELISA: A simplified tool for evaluating the Environmental Life-cycle Impacts of Solar Air-conditioning systems

Sonia Longo – *University of Palermo*

A comparative study between a Prefab building and a Standard building for the characterisation of production and construction stages

Mónica Alexandra Muñoz Veloza – *Politecnico di Torino*

Energy saving in LT/MT transformers

Simone Maranghi – *University of Siena*

13.00 - 14.00

Lunch

Courtyard of the University of Messina (Central Campus)

14.00 - 15.00

Poster Session

Rectorate Great Hallway – First floor

15.00 - 16.30

SESSION III AGRI-FOOD APPLICATIONS

Aula Magna of the University of Messina (Central Campus) - First floor

Chairs: Bruno Notarnicola – University of Bari "Aldo Moro"
Roberta Salomone – University of Messina

Steps towards SDG 4: teaching sustainability through LCA of food

Nicoletta Patrizi – *University of Siena*

The blue water use of milk production in North Italy – a case study

Doriana Tedesco – *University of Milan*

Practitioner-related effects on LCA results: a case study on Energy and Carbon footprint of wine

Emanuele Bonamente – *University of Perugia*

Environmental impacts and economic costs of nectarine loss in Emilia-Romagna: a life cycle perspective

Fabio De Menna – *University of Bologna*

Grana Padano and Parmigiano Reggiano cheeses: preliminar results towards an environmental eco-label with Life DOP project

Daniela Lovarelli – *University of Milan*

Life Cycle studies in agrifood sector: focus on geographical location

Anna Mazzi – *University of Padova*

16.30 - 17.00

Tea break

Courtyard of the University of Messina (Central Campus)

17.00 - 17.30

YOUNG RESEARCHER AWARDS

Aula Magna of the University of Messina (Central Campus) – First floor

Chairs: Grazia Barberio – ENEA

Andrea Raggi – University "G. d'Annunzio"

Environmental implications of future copper demand and supply in Europe

Luca Ciacci – *University of Bologna*

Multifunctional agriculture and LCA: a case study of tomato production

Cristian Chiavetta – *ENEA*

Development of a method to integrate particular matter formation in climate change impact assessment

Andrea Fedele – *University of Padova*

17.30 - 18.30

ITALIAN LCA NETWORK CONFERENCE ASSEMBLY

Aula Magna of the University of Messina (Central Campus) – First floor

18.30 - 20.00

Free time

20.00 - 20.30

Bus transfer to Gala Dinner

Meeting point: Piazza Pugliatti, 1 (in front of the main entrance of the University)

20.30 - 22.30

Gala Dinner – Villa Ida (only for participants registered to this event)



PROGRAM

June 12th, 2018 – Tuesday

09.30 - 11.00

SESSION IV

LIFE CYCLE THINKING METHODS AND TOOLS

Aula Magna of the University of Messina (Central Campus) – First floor

Chairs: Grazia Barberio – ENEA

Serena Righi – University of Bologna

A case study of green design in electrical engineering: an integrated LCA/LCC analysis of an Italian manufactured HV/MV power transformer

Emanuela Viganò – *CESI S.p.A.*

Eco-design of wooden furniture based on LCA. An armchair case study

Isabella Bianco – *Politecnico of Torino*

Life Cycle Thinking in online accommodation booking platforms: making a more sustainable choice

Ioannis Arzoumanidis – *University "G. d'Annunzio"*

Matching Life Cycle Thinking and design process in a BIM-oriented working environment

Anna Dalla Valle – *Politecnico of Milano*

Lithium-ion batteries for electric vehicles: combining Environmental and Social Life Cycle Assessments

Silvia Bobba – *Politecnico of Torino*

State of art of SLCA: case studies and applications

Gabriella Arcese – *University of Bari "Aldo Moro"*

11.00 - 11.30

Coffee break

Courtyard of the University of Messina (Central Campus)

11.30 - 13.00

SESSION V

WASTE MANAGEMENT

Aula Magna of the University of Messina (Central Campus) – First floor

Chairs: Anna Mazzi – University of Padova

Marzia Traverso – RWTH Aachen University

Life cycle assessment applied to biofuels from sewage sludge: definition of system boundaries and scenarios

Serena Righi – *University of Bologna*

13.00 - 14.00

Lunch

Courtyard of the University of Messina (Central Campus)

14.00 - 15.00

Poster Session

Rectorate Great Hallway – First floor

15.00 - 16.30

SESSION VI

LIFE CYCLE THINKING METHODS AND TOOLS

Aula Magna of the University of Messina (Central Campus) – First floor

Chairs: Marco Ferraro – CNR-ITAE

Giuseppe Tassielli – University of Bari “Aldo Moro”

The Constructal Law to optimize performances of energy systems through the Life Cycle approach

Francesco Guarino – University of Palermo

Walk-the-talk: Sustainable events management as common practice for sustainability conferences

Rose Nangah Mankaa – RWTH Aachen University

A Preliminary LCA Analysis of Snowmaking in Fiemme Valley

Paola Masotti – University of Trento

Life Cycle Assessment of a calcareous aggregate extraction and processing system

Rosa Di Capua – University of Bari “Aldo Moro”

Efficient Integration of Sustainability aspects into the Product Development and Materials Selection Processes of Small Businesses

Jonathan Schmidt – RWTH Aachen University

Bioplastics in designing beauty and home packaging products. A case-study from Aptar Italia SpA

Michele Del Grosso – APTAR Italia SpA

16.30 - 17.00

Tea break

Courtyard of the University of Messina (Central Campus)

17.00 - 18.20

ROUND TABLE

LIFE CYCLE THINKING IN DECISION-MAKING FOR SUSTAINABILITY: FROM PUBLIC POLICIES TO PRIVATE BUSINESSES

Aula Magna of the University of Messina (Central Campus) – First floor

Moderators: Maurizio Cellura – University of Palermo

Bruno Notarnicola – University of Bari “Aldo Moro”

Methodological advancements and remaining challenges after 5 years of Environmental Footprint road field testing

Michele Galatola – European Commission - DG Environment - Sustainable Production, Products & Consumption

Life Cycle Thinking in the U.S. Public Policy

Sangwon Suh – Professor of Industrial Ecology, University of California, Santa Barbara

Life cycle based environmental assessment of EU consumption

Serenella Sala – European Commission - Joint Research Centre - Directorate D - Sustainable Resources, Bio-Economy Unit (D1)

18.30 - 19.00

Bus transfer to Regional Museum

Meeting point: Piazza Pugliatti 1 (in front of the main entrance of the University)

19.00 - 21.30

Guided tour of the Regional Museum and Light Dinner
(only for participants registered to this event)

