

LUCIA RIGAMONTI

Lucia Rigamonti is an environmental engineer graduated at Politecnico di Milano in 2003 cum laude (title of the thesis: Environmental assessment of energy recovery from waste). She accomplished in 2007 a PhD in Environmental Engineering with a thesis on the topic of Life Cycle Assessment (LCA) applied to different integrated municipal solid waste management systems. The thesis was awarded of the first prize in the competition Best thesis 2008 organized by ORSA (Scuola di Alta Formazione Ambientale in Palermo). During the PhD she had been visiting the Columbia University (New York) in the Henry Krumb School of Mines.

She is currently a tenure-track assistant professor at the Department of Civil and Environmental Engineering (DICA) of Politecnico di Milano. Her research activity is mainly about the analysis by applying the life cycle thinking approach of environmental remediation technologies (e.g. treatment of solid waste, contaminated soils, wastewater), of prevention and potentially sustainable consumption choices, of management strategies and recovery of materials, resources and energy from civil and industrial residues, and of complex systems such as those related to the capture and utilisation of CO₂.

From 2007 to 2018 she was a researcher at DICA following different projects on the topic of environmental evaluation of material and energy recovery processes from waste. She won the UQ 2015 Travel Awards for International Collaborative Research and so from 20/9/2015 to 20/11/2015 she was a visiting academic at the University of Queensland (Brisbane - Australia) in the research group of prof. Halog (School of Geography, Planning and Environmental Management). In 2013 she spent three months at the research center Scion (Rotorua, New Zealand) in the team Clean Technologies (supervisor Kim McGrouther; Project: Development of a decision-making framework to manage technology development programmes within the BioResource Processing Alliance – BPA).

She won the Young Researcher Award LCA 2009, organized by the Italian Network on LCA.

She is member of the Technical Secretariat for the development of the Product Environmental Footprint Category Rules (PEFCR) for intermediate paper products in the context of the European Commission project "Environmental Footprint Pilot Phase". She founded the working group DIRE (Development and Improvement of LCA methodology: Research and Exchange of Experiences), inside the Italian Network on LCA, and she coordinates the working group Management and treatment of waste of the Italian Network on LCA. She is part of the scientific board of the Italian Network on LCA and of the Research Centre MatER (Material & Energy from Refuse).

She has been professor for the university courses Sanitary - environmental engineering and Phenomenon of pollution (Politecnico di Milano) since the academic year 2012-1013. She gave invited lectures about LCA and waste management for the following university courses: Waste Management, University College Dublin, Dublino, February 2014; Bio-Energy and Waste-To-Energy technologies, Politecnico di Milano, since the academic year 2011-2012; Management and treatment of solid waste, Politecnico di Milano, since the academic year 2011-2012. She gave the two-weeks course "The Life Cycle Assessment methodology" at the

Department of Civil Engineering of the National Institute of Technology di Warangal (India), (February 2017) inside the Technical Education Quality Improvement Programme-II.

She has been supervisor of several bachelor and master degree theses on the subject of waste management and life cycle assessment.

She has been the project leader of some research projects stipulated between Politecnico di Milano and various organizations. Moreover, she has been involved in many other research projects, about environmental and energy analyses and assessment of remediation technologies and waste treatment and management. The most recent projects are the following ones: LCA of different remediation technologies for San Cusumano Basso area (for Syndial), LCA of the construction and demolition waste management system implemented in Lombardy Region (for Regione Lombardia), Characterisation and LCA of the practice of packaging re-use in Italy (for CONAI), LCA of different scenarios of treatment of sewage sludge (for A2A), LCA of different scenarios of material recovery from white slag, Cost-Benefit Analysis of the Recycling of Packaging Waste (in collaboration with Istituto Superior Tecnico of Lisboa for the European Investment Bank), LCA of the municipal solid waste management system implemented in Lombardia Region: the GERLA project (for Regione Lombardia).

She has authored over 180 publications, including more than 45 on ISI journals. She attended as speaker many international conferences. She is referee for different international scientific journals, such as The International Journal of Life Cycle Assessment, Journal of Cleaner Production, Waste Management, Waste Management & Research, Resources, Conservation & Recycling, Science of the Total Environment. She was nominated “Top reviewer of 2011” for the Waste Management journal.

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