Curriculum Vitae

Alessandra Bonoli

PERSONAL INFORMATION



Alessandra Bonoli

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Date of birth 06/07/1961 Nationality Italian

Academic Experience

2021-	Full Professor in Raw Materials Engineering She has taught a number of bachelor, master, international master and PHD classes at the University of Bologna and other Italian universities. Principal among them are "Raw Materials Engineering", "Valorisation of Primary and Secondary resources", "Sustainability in Construction", and " Resources and Recycling" (taught in English)
from 2002 - 2021	Associate Professor at the Civil, Chemical, Environmental and Materials Engineering Department, School of Engineering and Architecture, University of Bologna Assistant Professor at the University of Bologna
from 1990 - to 2002	Research Associate at the University of Bologna
from 1986 – to 1990	Master's Degree in Mining and Raw Material Engineering with honours from the University of Bologna in 1986 – phd in Raw Materials Engineering

Membership Since 2019 she has been a delegate of the University of Bologna to the United Nations in the Sustainable Development Solutions Network (UN, New York)

Representative member of the University of Bologna at the European Commission within the Operational Groups of the European Innovation Partnership on Raw Materials (EIP Raw Materials) (from 2018 to today).

Member of the experts board supporting the participating process of Bologna Municipality for 2030 Bologna Carbon Neutrality

Resident Fellow (by Rector appointment) for the "Raw Materials" research group of the University of Bologna, Italy Resident Fellow (by Rector appointment) for the Consortium "CINIGEO", National Consortium for Geo resources and Geo technologies Engineering

Member of the Sustainability UNIBO Team (by Rector appointment) to promote environmental sustainability and the achievement of the Agenda2030 SDGs inside the University of Bologna

Director of the Education Commission at DICAM department

Delegate of the University of Bologna at the Working Group for "School, University and Research for the 2030 Agenda", Ministry of Education, University and Research,

Delegate of the University of Bologna in the Table of Work on Education for the Sustainable Development Goals (UN Agenda 2030 SDGs) and to that of Waste and Resources of the Network of Italian Universities for Sustainable Development (RUS).

Referent of the University of Bologna for the European network WITEC, The European Association for Women in Science, Engineering and Technology (from 2015 to today).

Collaborations with Europe and other European Research	EU Commission - in the period June 2022-March 2023 she was appointed as expert at the Criticality Working Group of the European Commission for the Criticality assessment of raw materials for the EU- 27 - Contract CRM Assessment 2023
and Academic Departments	United Nations University Vice-Rectorate in Europe, Sustainable Cycles Programme (SCYCLE) at the United Nations Institute for Training and Research (UNITAR) Office, Bonn, Germany
	CITG TU Delft University of Technology, Faculty of Civil Engineering and Geosciences, Delft, Nederland;
	DTU, Technical University of Denmark, Department of Management Engineering, University of Copenhagen Denmark;
	University of Granada, Spain - Area de Tecnologías del Medio Ambiente, Ingeniería Civil /ETSI Caminos, Canales
	y Puertos Technical University of Iasi, "Gheorghe Asachi", Department of Environmental Engineering and Management,
	lasi. Romania:

University of Aalborg, Department of Development and Planning Urban Planning and Mobility, Aalborg Denmark;

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Collaborations with
Italian public and
private subjectsFachhochschule Nordwestschweiz Hochschule für Life Sciences, Institut für Ecopreneurship, Muttenz (CH);
Technical University of Cataluna, Barcelona, Spain "GIA (Grupo de Ingeniería Ambiental)", "Departamento de
Ciencias y Técnicas del Agua y del Medio Ambiente".
Clean Energy Research Centre, University of British Columbia, Vancouver, BC, Canada
UNIDO, Vienna.

Emilia Romagna Region, Bologna Municipality, ARPAE (regional agency for Environment and Energy), ENEA (National Energy and Environment Agency), HERA s.p.a. (Italian Multiutility for environmental services) Several private companies

er language(s)	UNDERSTANDING		SPEAKING		WRITING	
	Listening	Reading	Spoken interaction	Spoken production		
English	B2	C1	B2	C1	C1	
	Level C1 Common European Framework of Reference for Languages (CEFR)					
French	B1	B1	B1	B1	B1	
	Self evaluation					
German	A2	A2	A1	A1	A2	
	Self evaluation					

Organisational /managerial skills Founder and coordinator of a research group (about 15 persons) named "Engineering of Transition and Circular Economy" that is developing researches oriented to building a sustainable world, from the point of view of environmental, social and economic, by saving and valorising natural resources: raw materials, water and energy. Founder in 2012 the Department Research Center for international COoperation and Development on Engineering, Environment and Emergency (CODE^3) to promote and coordinate Environmental Engineering projects for developing Countries.

Raw Materials Engineering and Circular Economy Main Research Raw materials and Urban Mining themes Sustainable development, climate change, ecological transition and energy transition. Mitigation and adaptation. Sustainable environmental solutions in both the building and waste management fields. Innovative studies in integrated waste management and in collection and recycling system. Recycling of Construction and Demolition waste in the context of Circular Economy. Electrical electronic Equipment waste management and recycling. Valorisation of primary and secondary resources, as urban and industrial waste as well as technologies dedicated to the production of raw material and materials from recycling process. Life cycle Sustainability assessment, LCA, LCC, ecological footprint, multicriteria analysis Researches in urban sustainability and resilience. Urban green Technologies as adaptation tool at urban level Implementation and application of integrated management systems (in terms of safety, environment guality) to mineral and inert materials processing. Studies on construction and demolition waste recycling and on other waste derived from urban and industrial activities.

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Main International projects Coordination of

MedFreeSUP, Climate Kic (2020-2022) EU Horizon 2020 Climate KIC – CLIMATE European Institute for Innovation and Technology Acronimo: MEDfreeSUP Title: Single-use plastic free systemic local applications along the Mediterranean east coast, path for a common set of protocols through experiments in Italy, Croatia and Greece

CEI (2018) EU Horizon 2020 Climate KIC - CLIMATE European Institute for Innovation and Technology Title: Circular Economy Indicators for plastic value chain in manufacturing

INSIGHT BONOLI (2016) EU Horizon 2020 Climate KIC - CLIMATE European Institute for Innovation and Technology Acronimo: INSIGHT BONOLI Title: A "new deal" of the University in Informatic Waste Reuse and Recycling

Partner and responsible of WPs

eCircular EU Horizon 2020 (2018-2020) Climate KIC - CLIMATE European Institute for Innovation and Technology Project Flagship 2018 Title: Circular Economy Indicators for plastic value chain in manufacturing

EU Horizon 2020 – Societal Challenges - Climate Action, Resources Efficiency and Raw Materials (2017-2020) Acronym: ROCK

Title: Regeneration and Optimisation of Cultral Heritage in creative and Knowledge Cities

EU Horizon 2020 - CE-BG-06-2019 (2019-2022) Acronym: BioPlastic Europe Title: Developing and Implementing Sustainability-Based Solutions for Bio-Based Plastic Production and Use to Preserve Land and Sea Environmental Quality in Europe

INTERREG III/c, Interreg IIIC East. (2005-2008) Project name: IUWMM Title: Integrated Urban Waste Management Model

Main last year publications (2022-2023)

- Pennellini, Sara; Awere, Eric; Kakavand, Narges; Bonoli, Alessandra, Assessment of secondary wastewater treatment technologies for agricultural reuse in Rafah, Gaza Strip: Application of evidential reasoning method, «CLEANER ENGINEERING AND TECHNOLOGY», 2023, 13, Article number: 100611, pp. 1 12 1.
- De Pascale, Beatrice; Tataranni, Piergiorgio; Lantieri, Claudio; Bonoli, Alessandra; Sangiorgi, Cesare, Innovative light-coloured porous asphalt for low-impact pavements: A 2. laboratory investigation, «CONSTRUCTION AND BUILDING MATERIALS», 2023, 368, pp. 130482 - 130489 [articolo]
- 3. Sara Bottausci; Roger Midence; Francisco Serrano-Bernardo; Alessandra Bonoli;, Organic Waste Management and Circular Bioeconomy: A Literature Review Comparison between Latin America and the European Union, «SUSTAINABILITY», 2022, 1661, Article number: 1661, pp. 1 - 14
- Obeng, Peter Appiah; Awere, Eric; Quaye, Sharon Amanda; Obeng, Panin Asirifua; Banafo, Kwesi Sane; Pennellini, Sara; Bonoli, Alessandra;, A Review of User Vulnerabilities Associated with Shared Sanitation Practices in Sub-Saharan Africa, «INTERNATIONAL JOURNAL OF ENVIRONMENT AND CLIMATE CHANGE», 2022, 12, Article number: IJECC.95188, pp. 977 998 [articolo]Open Access Degli Esposti A., Magrini C., Bonoli A. Door-to-door waste collection: a framework for the socio economic evaluation and and ergonomics optimisation, Waste 4.
- 5. Management, WM-22-1673R1, 2022.
- Eric Awere, Alessandra Bonoli, Peter Appiah Obeng, Sara Pennellini, Sara Bottausci, William Kwaasi Amanor and Emmanuel Kekeli Akuaku, Small-Scale Palm Oil 6. Production in Ghana: Practices, Environmental Problems and Potential Mitigating Measures, in: Palm Oil - Current Status and Updates [Working Title], Mihintale, Dr. Viduranga Y. Waisundara, 2022Bottausci S., Midence R., Serrano-Bernardo F., Bonoli A., Organic Waste Management and Circular Bioeconomy: A Literature Review Comparison between Latin America and the European Union. Sustainability 2022, Volume 14, Issue 3, 1661
- 7 Alhjouj, A.; Bonoli, A.; Zamorano, M. A Critical Perspective and Inclusive Analysis of Sustainable Road Infrastructure Literature. Appl. Sci. 2022, 12, 12996. https://doi.org/10.3390/app122412996
- Zanni, S, Roccaro, M, Bocedi, F, Peli, A, Bonoli, A (2022). LCA to Estimate the Environmental Impact of Dairy Farms: A Case Study. SUSTAINABILITY, vol. 14, p. 1-15, 8. ISSN: 2071-1050, doi: 10.3390/su14106028
- Liserra, Tonino, Bonoli, Alessandra, Di Federico, Vittorio (2022). Direct Simulation of Micro-Component Water Consumption for the Evaluation of Potential Water Reuse in 9. Households. Environmental Sciences Proceedings, vol. 21, p. 43-50, ISSN: 2673-4931, doi: 10.3390/environsciproc2022021043
- 10. Magrini C., Dal Pozzo A., Bonoli A. Assessing the externalities of a waste management system via life cycle costing: The case study of the Emilia-Romagna Region (Italy). Waste Management, Volume 138, 1 February 2022, Pages 285-297.3.

Bologna, 18/06/2023

Alessendue/Denol