

Speakers' Curriculum Vitae

4 July 2022

VITTORINO BELPOLITI

CV

Architect. M.Arch. Ph.D.

Assistant Professor of Architectural and Environmental Design at the University of Sharjah, Department of Architectural Engineering, UAE (since 2015).

Author of publications on sustainable and environmental design, energy efficiency in buildings, and innovative renewable energy production devices. Self-employed professional and founding-associate of Tipi Studio. Accredited Building Energy Certification Assessor, energy consultant for architectural and engineering firms, LEED expert and co-author of Italian LEED rating systems. Accredited Coordinator of safety measures in construction sites.

Until 2015 Member of the Scientific Committee for GBC Italia, established in 2010. Active member for the elaboration of the first Italian LEED protocol (LEED for Homes) and corresponding member for the elaboration of the first ever LEED protocol for the sustainability assessment of the historic heritage (GBC historic buildings).

2012 Visiting Professor Environmental Design at the IIT-J Indian Institute of Technology Rajasthan, Jodhpur – India

2011 Ph.D. in Energy Technologies at the Department of Energetics of the University of Udine, with the research objective of elaborating energy retrofit guidelines for the existing social housing heritage.

2009 – 2015 Adjunct Professor Technology of Architecture and Environmental Design at the University of Ferrara, Department of Architecture, Italy

2009 and 2010 visiting Researcher (Ph.D.) at the SBE of the University of Nottingham, within the framework of the research project British-Italian Partnership for Young Researchers, financed by British Council e CRUI.

2007 Degree in Architecture at the Department of Architecture of the University of Ferrara, awarded with honour (*cum laude*). The dissertation concerned the energy and environmental retrofit of existing buildings through the application of active and passive innovative strategies and devices.

2006 visiting graduate Scholar at the CED, University of California Berkeley, USA.

2004 trains at the practice office of architect Balkrishna Doshi in Ahmedabad, India.

2003 visiting scholar (Erasmus Program) at the *Arkitektsskole i Aarhus* – DK.

MARTA CALZOLARI

CV

Architect, PhD in Architectural Technology and Assistant Professor at the Department of Architecture of the University of Ferrara.

From 2019 to 2021 she was Assistant Professor at the Department of Engineering and Architecture of the University of Parma.

Since 2009 at the Department of Architecture of the University of Ferrara she is a member of the Architettura>Energia Research Centre, a research hub working on building sustainability where she participates at the research's activities and at the coordination.

In recent years she has worked on several research projects in the field of both new construction and energy, environmental and functional requalification of the existing building heritage, with particular attention to the historic ones.

In April 2013 she received the title of PhD in Architectural Technology (final grade: excellent) with a thesis titled: "Evaluation of the energy behaviour of historic architecture. Analysis of the methods for calculating the energy status and corrective proposals". During the PhD she was visiting scholar at the University of Nottingham, Department of the Built Environment (England). The doctoral thesis has also received three first prizes in scientific competitions.

From 2015 to 2019 she worked as research fellow at the Department of Architecture of the University of Ferrara for the operational coordination of a research project for the energy-environmental analysis of the entire architectural heritage of the University of Ferrara.

From A.Y. 2018/2019 she teaches Architectural Technology at the Department of Engineering and Architecture of the University of Parma.

From the A.Y. 2012/2013 to the A.Y. 2018/2019 she was an adjunct professor in Environmental Design and from the A.Y. 2013/2014 to the A.Y. 2018/2019 she was an adjunct professor of Materials and Design of Construction Elements and Architectural Technology at the Department of Architecture of the University of Ferrara. She also teaches at various postgraduate training courses.

Since 2015 she is member of SITdA - Italian Society of Architectural Technology, with activities within the "Nearly Zero Energy Building - nZEB" thematic cluster.

Since 2020 she is reviewer for the International Journal Editor MDPI. Since 2018 she is reviewer for the class A magazines (Area 08) Territorio, Franco Angeli Editore (Double blind review) and Techne – Journal of Technology for Architecture and Environment. Since 2017 she is member of the editorial committee of the Series of Volumes "Designing for sustainable construction" by Maggioli Editore (double blind review), she was reviewer for the SER4SC (Seismic and Energy Renovation for Sustainable Cities - International Conference Catania - Italy 1st to 3rd conference February 2018). Since 2016 she is peer reviewer for the scientific journal Energy Research & Social Science, Elsevier Editorial System. Since 2017 she is member of the Scientific Committee, and since 2009 curator, for the Architettura>Energi research centre of the "Energy Efficiency" column of the Recupero e Conservazione Magazine, De Lettera Editore.

She won the award of scholarships for stays abroad for PhD students from the University of Ferrara (2010).

PIETROMARIA DAVOLI

CV

Full Professor in Technology of Architecture at the University of Ferrara (UNIFE), Department of Architecture (DA). Master Degree in Architecture with honours and publication worthy at the University of Florence (1990); PhD in Technology of Architecture (1995), University of Florence. Member of the Academic Board and Supervisor of the "International Doctorate Architecture and Urban Planning" and of the "National PhD Programme Technology of Architecture" (1999-2016), DA, UNIFE. Member of "Sustainability Council", UNIFE.

He teaches (since 1995) for more than 20 years the degree course of Technology of Architecture in the Architecture Construction 1 Studio at the DA, UNIFE. He also taught at the University of Parma. Coordinator of the Integrated International Program for a Joint Double Master Degree (UNIFE - PUCPR, Brazil). Coordinator of many design workshops. He teaches energy retrofit of the architectural heritage at p.g. and professional courses.

Since 1997 he has been supervisor of many u.g. students and supervisor or co-supervisor for 7 PhD Candidates, both on national and international PhD Programs. He also has been invited as PhD Thesis Dissertation Evaluator.

Author of over 150 national and international scientific books, essays, articles, conference proceedings regarding to: relationships between environment, architecture (from the spontaneous pre-industrial) and sustainable technologies, particularly for energy efficiency control in new buildings and in "recycling" of historic heritage; technological innovation with specific interest in timber building systems.

Director of the Laboratory "Research Center Architettura>Energia" (A>E), DA. He coordinates and participates in scientific research group at national and international level, e.g.: scientific coordinator of the research "Sustainable UNIFE. Energy audit of the building stock of the UNIFE and preliminary retrofit proposals", A>E, DA, UNIFE (since 2015); "INNO-ZEB_INNOvative active and passive technologies for nearly Zero Energy Buildings", 2014-2016 (Principal Investigator), DA with international partnership of universities (China, New Zealand, Portugal); change leader of stakeholders core group in the National W.G., "GBC Italy", for the Project "BUILD UPON (HORIZON 2020)", Europe Regional Network of the World Green Building Council (2015-2017). Since 2016 is academic advisor of DA-A>E, UNIFE for the international university competition "Solar Decathlon Middle East 2018" ("leader institution" University of Sharjah, UAE).

Member of the Governing Council of the "SITdA-Società Italiana della Tecnologia dell'Architettura". Supervisor of the project: "HeLLo - Heritage energy Living Lab onsite", Marie Skłodowska-curie action (IF), 2018-2020, HORIZON 2020, DA, A>E, Unife

Scientific Responsible of Project Operational Unit of the Unife, national research "PRIN 2017" (funded 2019; Scientific Coordinator: LOSASSO Mario Rosario. Project title: "TECH-START").

GIOVANNI ZANNONI

CV

(Ravenna, Italy, 1954)

architect (Firenze 1981), PhD in "Technology of Architecture" University of Roma "La Sapienza", Associate professor at the IUAV University of Venice since 1992 and at Department of Architecture of Ferrara since 2010. Full professor since 2017 at Department of Architecture of Ferrara.

Coordinator of the workshops of the fourth year of the degree course in architecture.

Member of UNI (Italian National Body of Standard);

member of CIB (Conseil International du Bâtiment) within W096 "Architectural Management";

member of the teacher's committee of the PhD in Architecture Technology at the University of Ferrara, IUAV University of Venice, University of Bologna-Cesena, University of RomaTre and Libera Università di Bolzano;

member of the teacher's committee of the International Doctorate Architecture and Urban Planning at the University of Ferrara with POLIS University of Tirana and Malta Unkversity;

technical consultant for the Ministry of Health - Italian National Institute of Health for the Nation Plan for Radon.

His activity concerns quality of construction products and innovation in building technologies both in new buildings and in restorations, from the design phase through manufacture up to the phases of use, construction, management, service and recycle. He is an expert in the field of materials and technical building components, particularly for the building's envelope. He addresses his attention on the design of technical details of building related with the indoor environment quality and of the construction process. He is a national expert in building techniques for roofing and coordinator of national researches (National Research Council) and for private and industrial bodies. He is among the most national experts in the field of mitigation techniques from indoor radon pollution.

He published over 200 publications including two dozen of books and manuals, two patents, several encyclopedia entries about indoor air quality, articles and essays in national and international magazines. It had been the founder and / or editor of three magazines, founder and director of Artec, Archive of materials and techniques, at the University IUAV of Venice (<http://www.iuav.it/SISTEMA-DE/Archivio-d/>), he is currently director of the series titled "Architecture Technology Research" by Franco Angeli Publisher (http://www.francoangeli.it/Ricerca/Risultati_Ricerca_collane.asp?Collana=1330).

Since 2015 he is a member of the research group of the Department of Architecture in the action "Climate Change Adaptation" of the EU project LIFE plus.

ELEONORA BACCEGA

CV

Eleonora Baccega is an architect graduated from the University of Venice in 2018 and now PhD candidate of the XXXV cycle of the International Research Doctorate in Architecture and Urban Planning of the University of Ferrara. Topic of her research is the energy refurbishment of historical buildings, more specifically the addition of Phase Change Materials (PCMs) into lime-based plasters, for the improvement of energy performance of existing and historical buildings during summer. Her research, however, is dedicated to the building envelope in general, with ongoing researches also on ventilated roofs and radiant floors, with special focus on thermal energy storage (TES) and passive cooling techniques using PCMs.

She has also been involved in the experimental monitoring activity of the H2020 IDEAS project (Novel building Integration Designs for increased Efficiencies in Advanced climatically tunable renewable energy Systems).