

VITTORINO BELPOLITI

ARCHITECT

M.ARCH., PH.D.

ASSISTANT PROFESSOR OF ARCHITECTURAL DESIGN

DEPARTMENT OF ARCHITECTURAL ENGINEERING - UNIVERSITY OF SHARJAH - UAE

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CURRICULUM VITAE

CV BRIEFS

Architect. B.Arch., M.Arch., Ph.D.

Assistant Professor, Department of Architectural Engineering, University of Sharjah, UAE.

Former Adjunct Professor, Department of Architecture, University of Ferrara, Italy.

Member of the Research Centre *Architettura>Energia*, Department of Architecture, University of Ferrara.

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 and Arca Engineering.

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.

CV FACTS

Attends scientific high school studies, and in 1999 he is an AFS scholar attending at Walnut Hills High School in **Cincinnati, Ohio USA**.

In 2000 begins Architectural studies at the Department of Architecture, University of Ferrara.

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

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

In 2006 **visiting graduate Scholar** at the **CED, University of California Berkeley, USA**, meeting the local **building energy certification systems**, deepening the expertise of **LEED**.

In 2007 **Mater 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.

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)**.

2009 – current **adjunct Professor Technology of Architecture and Environmental Design** at the **University of Ferrara, Department of Architecture, Italy**

In 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**.

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

2015/2016 **visiting Professor of Architectural Design** at the **University of Sharjah, Department of Architectural Engineering, UAE**

2016 - current **Assistant Professor of Architectural Design** at the **University of Sharjah, Department of Architectural Engineering, UAE**

Sharjah, 5th June 2017

CONTACTS

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EDUCATION

Institution Department of Energetics, University of Udine, Italy
Degree **Ph.D. of Energy Technologies**
Dissertation Social housing energy retrofit
Research area Energy retrofit of existing buildings;
Building application of innovative photovoltaic devices;
Elaboration of a simple and fast energy *audit* and refurbishment tool for social housing clusters: UPPER (Urban Parametric Protocol for Energy Retrofit)
Date 19th May 2011

Institution Department of Architecture, University of Ferrara, Italy
Degree **Master in Architecture (HONS)**
Dissertation Energy and environmental retrofit of existing buildings through the application of active and passive innovative strategies and devices.
Date 6th July 2007
Mark 110/110 *cum laude* (awarded with honour)

AFFILIATION

Member of the Research Centre *Architettura>Energia*, www.unife.it/centro/architetturaenergia, Department of Architecture, University of Ferrara.

LANGUAGES

Fluent English, academic level. TOEFL Test 280/300 (2005): complete oral and reading (scientific content) comprehension; competence in writing scientific texts; competence in presenting complex topics; qualified to teach technical/scientific lectures.

Spanish, school level.

SOCIAL AND PROFESSIONAL APTITUDES

Vittorino Belpoliti is an **Architect** enrolled in the National Architect Association, chapter of Reggio Emilia, Italy.

The **foreign experiences** studying, practicing, and teaching have increased social skills, capacity of interacting with diverse professional figures, managing complex situations and group work.

Travelling is among his preferred interests. **Meeting new cultures** and places is the way to keep an **open mind** and feed **creativity** both for professional and personal use.

Vittorino has excellent **artistic and manual competences**, which have been developed since his youth thanks his own aptitude, school activities (courses of applied art at Walnut Hills High School in Cincinnati, Ohio USA) and other parallel accomplishments (Vittorino won the Competition *Pierlambicchi 1997* for young comic-books artists; in 1999 he publishes his first illustration in the magazine “Il caffè illustrato”).

Vittorino is a **hard worker**, dedicated to his job. He always questions himself to get the best out of every situation. He tends to lead team-work, not overwhelming colleagues, although making decisions and taking care of final results and outcomes.

Among the most important developed skills, Vittorino has reached high proficiency in communication, both for design and product. It concerns a sort of marketing ability overall regarding conceptual design. This capacity comes from a necessary professional competitiveness: due to the recent economic crisis, the job scarcity has induced many more professionals to challenge each other on few commissions; today, being able of better explaining a project means higher percentages of success. This has been verified in design competitions (the job scarcity has almost tripled the competition average number of entries): over a period of 7 years, out of 40 (34 design competition + 6 architectural awards) total design competitions, Vittorino was awarded 8 first places, 3 second places, 3 third places, 4 honourable mentions.

The communication of the project is not only useful in the professional activity, but also in lecturing studio, which is the academic activity Vittorino is best at, having spent about 9 year assisting first, then coordinating several studio classes.

TECHINICAL COMPETENCES

The artistic skills have been mastered in hand-drawing and physical modelling.

Vittorino has tasted the practical-side of building, thanks to summer-work as a brick-layer during his period as a student. This helped appreciating more the final result, and better understanding the meaning of theoretical lessons.

However, digital art has not been ignored. Beside the use of **basic software tools for both Windows and Mac Operating Systems**, Vittorino has a full expertise of specific computer-graphic tools such as **AutoCAD, Photoshop, Sketch Up, SU Podium**, and a basic knowledge of other software, such as **3D Studio MAX, Dreamweaver, Flash**.

Lately, he has picked up hand-drawing due to the possibility of merging it with digital technologies, thanks to drawing tablets.

The latest expertise concerning energy efficiency in buildings have pushed him in learning several software for the building energy analysis and certification. They are mainly tools for the steady-state or dynamic-state energy assessment, Design Builder and Energy Plus, or auxiliary tools such as LBNL Therm and Ecotect. Such skills have been strongly implemented thanks to a scholarship at the University of California Berkeley (USA), due to the research in the field of innovative energy technologies assisted by advanced software produced at the Lawrence Berkeley National Laboratory (LBNL).

ACADEMIC ACHIEVEMENTS

- October 2016 **Project Manager and Faculty Advisor** of the Know Howse team of the University of Sharjah, qualified for the **Solar Decathlon Middle East 2018 in Dubai**.
- **Coordinator** of the Academic Course **Architectural Design 4**, 2016 – 2017, University of Sharjah, Department of Architectural Engineering, UAE
- Current - **Assistant Professor of Architectural Design** at the University of Sharjah, Department of Architectural Engineering, UAE
- **Visiting Professor of Architectural Design** (2015 - 2016) at the University of Sharjah, Department of Architectural Engineering, UAE
- **Adjunct Professor of Environmental Design** (2013 - 2014) in **Master of Architecture – dissertation final course (lecture + studio)**, Department of Architecture, University of Ferrara.
- **Adjunct Professor of Environmental Design** (2012 - 2013) in **Master of Architecture – dissertation final course (lecture + studio)**, Department of Architecture, University of Ferrara.
- **Visiting Professor at IIT Indian Institute of Technology Jodhpur, Rajasthan, India** in 2012. Elective course: **Basics of Sustainable Development. (lecture + studio)**.
- **Adjunct Professor of Technology of Architecture** (2011 - 2012) in **Bachelor of Architecture (lecture + studio)**, Department of Architecture, University of Ferrara.
- **Adjunct Professor of Energetics and Technical Systems** (2010 - 2013) in **Bachelor of Architecture (studio)**, Department of Architecture, University of Ferrara.
- From 2008 **Member of the Energy Section of the Research Centre *Architettura>Energia***, Department of Architecture, University of Ferrara.
- 2011 – current **Member of the Scientific Committee for the elaboration of the LEED protocols** for the energy certification of buildings (as part of the staff of the Department of Architecture of the University of Ferrara, partner of GBC Italia).
2012 LEED for Homes, the first GBC protocol in Italy (active member);
2014 GBC Historic Buildings, the first ever GBC protocol for the sustainability assessment of the historic heritage (corresponding member);
- **Instructor** of the Workshop Quali(ci)ty, promoted by the magazine OfArch, at the Made Expo Milan. Coordinators: Prof. Arch. Pietromaria Davoli, Prof. Arch. Andrea Rinaldi, Prof. Arch. Giuseppe Mincoelli, Department of Architecture – University of Ferrara, 10-16 October 2012.
- From May 2011 he participates to the **Commission for the University Sustainability**, as consultant of Prof. Arch. Pietromaria Davoli, coordinator of the Scientific/Technological Academic Area.
- In 2010 he is **Visiting researcher** (Ph.D. candidate) **at the SBE School of Environmental Design of the University of Nottingham (UK)**.
- **Instructor** of the Department of Architecture – University of Ferrara for the Workshop SITdA “Idee e proposte ecosostenibili per i territori del sisma aquilano [Eco-sustainable ideas and proposals for the lands hit by the earthquake]”, coordinator: Prof. Arch. Maria Cristina Forlani, Pescara/Caporciano (L'Aquila), 31 May-5 June 2010.

- **Instructor** of the Workshop A>E>A “Conversione di ex capannone industriale in scuola di musica del Comune di Argenta [Conversion of former industrial building in new public school of music for the Municipality of Argenta, Ferrara (Italy)]”, coordinators: Prof. Arch. Pietromaria Davoli, Prof. Arch. Andrea Rinaldi. Argenta (Ferrara), 17-20 December 2010.
- 2009 – 2010 **Member of the research group of the Research Centre *Architettura>Energia* within the framework of the British-Italian Partnership for Young Researchers project.**
- **Instructor** and organizing reference of the Workshop A>E>A “Dall’acqua alle mura. Cortine e collegamenti da Sant’Antonio a San Pietro [From water to walls. Barriers and connections between the bastions of S. Antonio and S. Pietro]”, coordinator: Prof. Arch. Pietromaria Davoli, Department of Architecture – University of Ferrara, 8-12 June 2009.
- **Instructor** of the Department of Architecture – University of Ferrara for the Workshop “Il futuro del costruito. Riqualficazione energetica e Piano Casa [The future of the built environment. Energy retrofit practices meet the Piano Casa]”, coordinators: Prof. Arch. Nicola Marzot, Prof. Arch. Andrea Rinaldi, SAIEnergy, Bolognafiere, Bologna, 28-31 October 2009.
- **Instructor** and organizing reference of the Workshop A>E>A (Architettura>Energia>Ambiente) “Palazzo degli Specchi a Ferrara. Dall’obsolescenza alla virtuosità: un progetto di riqualificazione energetico/sostenibile [Palazzo degli Specchi in Ferrara. From obsolescence to virtuosity: design for environmental sustainability and energy efficiency]”, coordinator: Prof. Arch. Pietromaria Davoli, Department of Architecture – University of Ferrara, 9-13 June 2008.
- 2007 **Graduates from Master in Architecture with honours (110/110 cum laude)**. Dissertation: Energy and environmental retrofit of existing buildings through the application of active and passive innovative strategies and devices.
- In 2006 he is **Visiting scholar at UCB University of California Berkeley – College of environmental design**.
- He is author of **scientific papers**, at National and International level, and he is co-author of other publications and volumes about existing buildings energy retrofit and innovative technologies integrated to buildings.
- He lectures **Calculation Methods of the energy behaviours of buildings** at the courses for **energy assessors**.
- From 2005 he **lectures** as assistant professor in **Technical physics, Building systems, Energy control in buildings**.
- From **2004** he is **instructor** for the courses **Technology of Architecture 1 and 2**: both semester studio courses, where the specific activity is studio assistance in the field of architectural design and wood technology (Technology of Architecture 1) and innovation in technology, building energy evaluation and HVAC systems (Technology of Architecture 2)

CONGRESSES AND CONFERENCES

Speaker at the **UAE Innovation Week**, presenting “**For a more sustainable and transparent future**”. as representative of the Department of Architectural Engineering – University of Sharjah. Sharjah, 24 November 2015.

Speaker at the **SciFest Scientific Festival in Dubai**, presenting “**The sustainable process in the built environment**”. as representative of the Department of Architectural Engineering – University of Sharjah. Dubai, 6 October 2015.

Speaker at the **International Workshop “Sustainability and Conservation”**, presenting “**A bottom up approach to existing buildings energy assessment**”. Department of Architecture – University of Ferrara. Ferrara, 23 May 2014.

Speaker at **Made Expo 2012 “Quali(ci)ty”**, presenting “**Social housing energy retrofit**”. Fiera Milano, 18 October 2012.

Speaker at the conference promoted by ConfAPI Reggio Emilia, presenting “**Energy efficiency in the productive building sector**”. **Ecocasa 2012**. Fiera Reggio Emilia, 16 February 2012.

Speaker at **Ecocasa 2012**, presenting “**UPPER. An energy diagnosis and retrofit protocol for the social housing**”. Fiera Reggio Emilia, 18 February 2012.

Speaker at the congress **AIGE 2012**, presenting “**Elaboration of a parametric protocol for the energy diagnosis of the social housing**”. Ferrara, June 2012

Speaker at **Expomeeting “Light. Local. Low Energy”**, presenting “**Strategies for the evaluation, valorisation, and energy refurbishment of the historical heritage**”, with M. Calzoalri, Bologna, 27 May 2011.

Lecturer at the info meeting **5 Avanti 5**, presenting “**The role of the architect in current society. A self-made path**”. Ferrara, 21 November 2011

Speaker at the congress **ATI 2010**, presenting “**Dynamic-state energy analysis in the historical heritage: and energy retrofit action accounting for climate dynamic influence**” Cagliari, September 2010.

Speaker at the Conference “**The LEED system. Environmental sustainability assessment in the building sector**”, promoted by Assform, presenting “**The Research Centre Architettura>Energia and the LEED system. Refurbishing the existing building heritage**”, Ferrara, 28 May 2010.

Lecturer at the refresher course promoted by the Architect Association of Reggio Emilia (Italy), presenting “**Sustainable environmental design and energy assessment**”. Reggio Emilia, 5 May 2010.

Speaker at the congress **AIGE 2010**, presenting “**Heat transfer through semitransparent PV devices: preliminary analysis on two case studies**”. Rome, June 2010.

Speaker at the congress **UIT 2010**, presenting “**Social housing energy retrofit scenarios: energy policies and CO₂ reduction in the Italian Region Emilia Romagna**”. Brescia, April 2010.

Wessex Institute conference, presenting “**Potential in GHG emission abatement through an effective energy policy: the Reggio Emilia case**”. Skiathos, September 2008.

Speaker at the congress **AICARR 2008**, presenting “**Building energy retrofit using semitransparent photovoltaic devices**”. Milan, April 2008.

Speaker at the congress **ATI 2007**, presenting “**Semitransparent PV devices, an investigation of the technology’s potential within building-integrated systems**”. Salerno, September 2007.

ACADEMIC COURSES AND WORKSHOPS

Title: **Building Environmental Control System Design**
Institution: Department of Architectural Engineering, University of Sharjah, UAE.
Duties: **Assistant Professor; Course Coordinator**
Program: Global and local climate factors, indoor environment and human comfort, heat stress and thermal balance of buildings, condensation, heat and moisture transfer in building fabrics, shading device designs, thermal control in buildings, ventilation and air movement requirements and patterns, natural cooling techniques in buildings, mechanical solution through air conditioning systems design.
The course will be taught in the format of 2 classes per week. The instructor will deliver the course as lectures: including theoretical ones and software training to practice taught notions to a real-life scenario. This training activity will start once the theoretical base has been provided after the Spring Break, and will be conducted in small groups (2-4 students). The instructor will assess the students individually with in-class quizzes (week 3-5) and midterm exam (week 7*), and a final exam (week 16*) that will include a questionnaire and a report of the software training activity.

Year: 2015 – 2016
Level: 4/5th year (bachelor). Elective course
Duration: Spring semester
Organization: 40 hours studio

Title: **Architectural Design 5 Studio**
Institution: Department of Architectural Engineering, University of Sharjah, UAE.
Duties: **Assistant Professor;** studio advisor
Program: Design of complex group of buildings within the context of a related urban fabric where an urban design practice is needed prior to the design of individual buildings. Design of buildings with problems of complex nature, requirements, and functions in addition to acoustics, heating and ventilation.
The course will be taught in the format of 2 classes per week as 2 x 220 minutes. The instructor will deliver the course as lectures, and practical assignments (projects). The instructors will follow-up each student individually during the practical sessions.
In the Design 5 Studio, students shall approach the urban design targeting the refurbishment and renovation of the Heritage area of the city of Sharjah.

Year: 2015 – 2016
Level: 4th year (bachelor)
Duration: Spring semester
Organization: 90 hours studio

Title: **Architectural Design 4 Studio**
Institution: Department of Architectural Engineering, University of Sharjah, UAE.
Duties: **Assistant Professor;** studio advisor and **Course Coordinator in 2016 – 2017.**
Program: Advanced design of buildings with problems of complex structures, requirements, and functions in addition to acoustics, heating and ventilation. Students are expected to apply knowledge acquired in related subjects (building construction and environmental physics) to the design process. One major project or more each has a specific complex problem. The course employs a competitive approach.
The course will be taught in the format of 2 classes per week. The instructor will deliver the course as lectures, and practical assignments (projects). The instructors will follow-up each group individually during the practical sessions.
In the Design 4 Studio, students shall design a private school for KG 1-2 and Grade 1-12, at Sharjah.

Year: 2015 – 2016 and 2016 - 2017
Level: 4th year (bachelor)
Duration: Fall semester
Organization: 90 hours studio

Title: **Architectural Design 2 Studio**
Institution: Department of Architectural Engineering, University of Sharjah, UAE.
Duties: **Assistant Professor**; studio advisor
Program: An introduction to design methodology as a problem-solving strategy with logical thinking based on problem facts. Students are trained to conduct pre-design studies and analyses as a critical input to the design process.
Studio classes with presentations of new information and requirements, followed by studio work.
The assessment breakdown is 30% Coursework, 40% Technical Presentation, 30% Final Presentation.
In the Design 2 Studio, students shall design the new Toyota office building in Dubai, hypothesizing the demolition of the old one.
Year: 2015 – 2016 and 2016 - 2017
Level: 3rd year (bachelor)
Duration: Fall semester
Organization: 90 hours studio

Title: **Final Architecture Design Studio**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Adjunct professor**; environmental design lectures, studio advisor
Program: The design studio is propaedeutic to the final thesis/dissertation of Architecture diploma. Students could choose their own subject within the main topic of “Refurbishment and valorisation of the existing productive and industrial areas”. Existing building retrofit and new construction are accepted within a consolidate built environment. The drawing scale depends on the topic selection: usually a site plan is required (1:1000/1:500), plus following focuses. The studio acts as a bridge from the last academic experience to the final design thesis; therefore it aims at reaching turn-in requirement specified by the institution for the final dissertation (usually 10-14 boards, DIN A1 format).
Year: 2014 – 2015
Level: 5nd year (Master degree project)
Duration: Year
Organization: 200 hours studio + 20 hours frontal lectures

Title: **Final Architecture Design Studio**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Adjunct professor**; environmental design lectures, studio and thesis advisor
Program: The design studio is propaedeutic to the final thesis/dissertation of Architecture diploma. Students could choose their own subject within the main topic of “Refurbishment and valorisation of the existing building heritage”. Existing building retrofit and new construction are accepted within a consolidate built environment. The drawing scale depends on the topic selection: usually a site plan is required (1:1000/1:500), plus following focuses. The studio acts as a bridge from the last academic experience to the final design thesis; therefore it aims at reaching turn-in requirement specified by the institution for the final dissertation (usually 10-14 boards, DIN A1 format).
Year: 2013 – 2014
Level: 5nd year (Master degree project)
Duration: Year
Organization: 200 hours studio + 20 hours frontal lectures

Title: **Final Architecture Design Studio**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Adjunct professor**; technology of architecture lectures, studio and thesis advisor
Program: The design studio is propaedeutic to the final thesis/dissertation of Architecture diploma. Students could choose their own subject within the main topic of “Refurbishment and valorisation of the existing building heritage”. Existing building retrofit and new construction are accepted within a consolidate built environment. The drawing scale depends on the topic selection: usually a site plan is required (1:1000/1:500), plus following focuses. The studio acts as a bridge from the last academic experience to

the final design thesis; therefore it aims at reaching turn-in requirement specified by the institution for the final dissertation (usually 10-14 boards, DIN A1 format).

Year: 2012 - 2013
Level: 5nd year (Master degree project)
Duration: Year
Organization: 200 hours studio + 20 hours frontal lectures

Title: **Basics of the Sustainable Development**

Institution: IIT-J Indian Institute of Technology – Jodhpur (Rajasthan), India.

Duties: **Visiting Professor**; sustainability and environmental design lectures; studio advisor

Program: The objective of this course is to introduce the concept of sustainability to students so that they can integrate these principles in their designs and careers. Given the foreign expertise, the course will focus on general issues of sustainable urban development, focusing on new construction and refurbishment, contextualizing case studies and class-project on Indian climatic conditions (and similar). Briefs on sustainable policies and programs in India will also be presented. The students will be asked to apply best practices from the case studies in the elaboration of a model for a small office building in Jodhpur.

Year: November – December 2012
Level: 3rd and 4nd year (bachelor student form Civil, Mechanical, and IT Engineering Majors)
Duration: 1 month (winter elective course)
Organization: 26 hours lectures + small project assignment)

Title: **Technology of Architecture Studio 2**

Institution: Department of Architecture, University of Ferrara, Italy.

Duties: **Adjunct professor**; environmental design and system integration lectures and studio advisor

Program: The studio works first on the design of a small building (i.e. a primary school, a small civic centre, a sport changing room and service, etc.), then mainly focuses on the construction technological issues and technical phases of the design process. It deals with any kind of technology, suggesting the use of steel and traditional systems (masonry and concrete). The drawing scales reaches 1:10 (1:5 for certain details). The studio aims at reaching a hypothetical construction-site drawing level. Students are required to turn in presentation boards of architectural and technological design (usually 20-25 boards, DIN A2 format), as well as 3D views. Physical model is optional.

Year: 2011 – 2012 and 2012 – 2013
Level: 4nd year (bachelor)
Duration: Spring semester
Organization: 100 hours studio + 36 hours frontal lectures

Title: **Architecture Design Studio 2**

Institution: Department of Architecture, University of Ferrara, Italy.

Duties: **Adjunct professor**; environmental design lectures and studio advisor

Program: In design studio 2, students face the building design together with the understanding of its surrounding context. The assignment is often a small-medium project (retail or congress centre, school, multi-dwelling residential, etc.), and it focuses on investigating the process of “making” architecture in terms of morphological and typological outcomes. The drawing scales usually reaches 1:100. The class is part of the Design Studios path (from 1 to 4), which is characterized by increasing level of complexity. Students are required to turn in presentation boards of architectural design, with particular care to the graphic design and project communication (usually 6-10 boards, DIN A1 format), as well as a physical model. 3D views are optional.

Year: 2011 - 2012
Level: 2nd year (bachelor)
Duration: Spring semester
Organization: 100 hours studio + 36 hours frontal lectures

Title: **Technology of Architecture Studio 1**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Instructor**; studio advisor
Program: The studio works first on the design of a small building (i.e. a primary school, a small civic centre, a sport changing room and service, etc.), then mainly focuses on the construction technological issues and technical phases of the design process. The course mainly focuses on the timber technology. The drawing scales reaches 1:20 (1:10 for certain details). The studio aims providing students with the practical knowledge and awareness to proceed in their academic path. Students are required to turn in presentation boards of architectural and technological design (usually 10 boards, DIN A1 format), as well as 3D views or a physical model (suggested option).
Year: 2006 – 2015 (present)
Level: 2nd year (bachelor)
Duration: Autumn semester
Organization: 100 hours studio
Note: *This course has been my first experience as a teacher. Now, as an Adjunct Professor I hold other courses (above), but I keep assisting Technology of Architecture Studio 1, on a volunteering base, due to my personal interest and passion for studio activity.*

Title: **Workshop “Quali(ci)ty”**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Instructor and coordinator** of the workshop studio activity
Program: Design workshop to identify sustainable refurbishment scenarios for the former marketplace and Agriculture Consortium of Reggio Emilia (Italy).
Year: 10-16 October 2012
Level: 3rd and 4th year students involved (bachelor of architecture and industrial design)
Organization: 7 days studio activity and seminars

Title: **Workshop SITdA “Idee e proposte ecosostenibili per i territori del sisma aquilano”**
Institution: SITdA, Italy.
Duties: **Instructor**; workshop advisor (studio activity)
Program: Organized by the Department of Architecture - University of Pescara (Italy) and promoted by SITdA (Italian Society for Technology of Architecture), the workshop has taken place in Pescara for the seminar beginning part, then in Caporciano, an historical town in the Navelli Plateau (countryside of L’Aquila) heavily struck by the 2010 earthquake.
Year: 31 May-5 June 2010
Level: 3rd and 4th year students involved (bachelor of architecture)
Organization: 1 day seminars, 5 days studio activity and presentation

Title: **Workshop A>E>A “Conversione di ex capannone industriale in scuola di musica del Comune di Argenta”**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Instructor**; workshop advisor (studio activity)
Program: Design workshop to identify sustainable refurbishment scenarios for the conversion of a former productive building into the new public school of music of the Municipality of Argenta, Ferrara (Italy)].
Year: 17-20 December 2010
Level: 2nd, 3rd, and 4th year students involved (bachelor of architecture)
Organization: 4 days studio activity and presentation

Title: **Workshop A>E>A “Dall’acqua alle mura. Cortine e collegamenti da Sant’Antonio a San Pietro”**
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Instructor**; workshop advisor (studio activity)
Program: Design workshop to identify sustainable refurbishment scenarios for the strip of park going from the medieval walls of Ferrara and the river and from the Sant’Antonio’s bastion to the San Pietro’s one.

Year: 8-12 June 2009
Level: 4th and 5th year students involved (bachelor of architecture)
Organization: 5 days studio activity and presentation (plus two propaedeutic weeks before the workshop itself)

Title: **Workshop** of the Department of Architecture – University of Ferrara “Il futuro del costruito. Riqualificazione energetica e Piano Casa”
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Instructor**; workshop advisor (studio activity)
Program: Design workshop to identify sustainable refurbishment scenarios for the social housing due to the upcoming of the Governmental regulation “Piano Casa”, promoting the retrofit action on the housing stock therefore feeding the building market in regards to the residential sector. Case studies in Bologna.
Year: 28-31 October 2009
Level: 4th and 5th year students involved (bachelor of architecture)
Organization: 4 days studio activity and presentation

Title: **Workshop** A>E>A “Palazzo degli specchi a Ferrara. Dall’obsolescenza alla virtuosità: un progetto di riqualificazione energetico/sostenibile”
Institution: Department of Architecture, University of Ferrara, Italy.
Duties: **Instructor**; workshop advisor (studio activity)
Program: Design workshop to identify sustainable refurbishment scenarios for Palazzo degli Specchi in Ferrara, an office complex never used after completion and today left to decay and degradation.
Year: 9-13 June 2008
Level: 4th and 5th year students involved (bachelor of architecture)
Organization: 5 days studio activity and presentation (plus two propaedeutic weeks before the workshop itself)

FINAL TEHSIS AND SENIOR SUPERVISING

Thesis title: Upgrade of the school sector in Sharjah. Guidelines to enhance the performance of new and existing buildings
Candidate: Arwa Ali Abdulla Musallam Abdulla Aljunaibi, Eman Jasim Alzaabi, Reem Abdul Ghani Nassif
Duties: **Supervisor**
Year: 2017
Thesis Evaluation: A

Thesis title: Sustainable future for governmental housing in the UAE. A social project to educate new generations to cultural, economic, and environmental awareness
Candidate: Ahmed Dib Abdul Rehman Mahmoud, Ali Hassan Kareem
Duties: **Supervisor**
Year: 2017
Thesis Evaluation: A

Thesis title: Designing from waste. A proposal for the re-use and recycle of waste materials in the construction of an R&D center in Masdar City
Candidate: Ayah Mahdi Mohammed Alkhulaifi, Heba Samih Abbas, Mahmoud Ahmad Mahmoud Abu Ali
Duties: **Supervisor**
Year: 2017
Thesis Evaluation: B+

Thesis title: Dubai Nanotechnology Center.
Candidate: Ammar N. Ahmad Ghanem, Aya B. Alcharfli
Duties: **Supervisor**
Year: 2016
Thesis Evaluation: B+

Thesis title: Seawalk.
Candidate: Farah A. M A Ebrahim
Duties: **Supervisor**
Year: 2016
Thesis Evaluation: C+

Thesis title: Regenerating Sharjah. Valorisation of the Heart of Sharjah through the retrofit of its heritage buildings.
Candidate: Ayah O. A. Hammouda, Nawal S. Karama
Duties: **Supervisor**
Year: 2016
Thesis Evaluation: B

Thesis title: Spazialità sonore. Rigenerazione del fabbricato principale dell'Ippodromo Comunale di Ferrara.
Candidate: Mariacaterina Miozzi
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Andrea Rinaldi (second), Vittorino Belpoliti
Year: 2015
Thesis Evaluation: 5/8 points

Thesis title: Still-life: strategie per la riattivazione e la valorizzazione del patrimonio architettonico pubblico. Il caso pilota dell'ex convento di San Procolo a Bologna
Candidate: Pietro Cesari, Giacomo Quercia
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Giuseppe Saponaro (second), Vittorino Belpoliti, Laura Gabrielli
Year: 2014
Thesis Evaluation: 8/8 points

Thesis title: Analisi e proposte per una scuola a misura di studente: il caso dell'Istituto Belluzzi Fioravanti di Bologna
Candidate: Elena Minarelli
Duties: **Co-supervisor**
Other supervisors: Paola Boarin (principal), Vittorino Belpoliti, Laura Gabrielli
Year: 2014
Thesis Evaluation: 7/8 points

Thesis title: R-Urban training. Rigenerazione ex Caserma Mazzoni a Bologna
Candidate: Giulia Ferro, Laura Venturi
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Paolo Iotti (second), Vittorino Belpoliti, Valeria Farinelli
Year: 2013
Thesis Evaluation: 8/8 points, with honours (cum laude)

Thesis title: Sani caserma aperta: strategie nel tempo per il riuso dell'ex area militare a Bologna
Candidate: Niccolò Bani, Giovanni Guidi
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Vittorino Belpoliti, Giuseppe Saponaro
Year: 2013
Thesis Evaluation: 8/8 points, with honours (cum laude)

Thesis title: Grattacielo: un'offerta abitativa integrata per la rigenerazione urbana del comparto ferroviario della città di Ferrara
Candidate: Valentina Frighi
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Fabio Conato (second), Vittorino Belpoliti, Laura Gabrielli, Ferdinando Laudiero
Year: 2013
Thesis Evaluation: 6/8 points

Thesis title: The unconventional city : strategie per un progetto di riuso come sperimentazione urbana
Candidate: Giacomo Calisti, Giulia Domeniconi, Giovanni Maria Laguzzi
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Giuseppe Saponaro (second), Vittorino Belpoliti
Year: 2013
Thesis Evaluation: 6/8 points

Thesis title: Remade in Fe : rigenerazione dell'ex area industriale di via del Lavoro, Ferrara
Candidate: Lorenzo Bellini, Mattia Guaresi, Sara Poletti
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Vittorino Belpoliti, Laura Gabrielli
Year: 2013
Thesis Evaluation: 7/8 points

Thesis title: La riqualificazione dell'ex Colonia Bolognese: il mercato del lusso per il rilancio dell'offerta turistica Riminese
Candidates: Ilaria Ciatto, Elisabetta Corinaldesi, Anna Fracasso
Duties: **Co-supervisor**
Other supervisors: Nicola Marzot (principal), Giuseppe Saponaro (second), Vittorino Belpoliti
Year: 2012
Thesis Evaluation: 6/8 points

Thesis title: Lo spazio pubblico nell'edilizia residenziale pubblica, Primavalle. Periferia romana, un'occasione di approccio al progetto urbano e architettonico
Candidates: Elena Francesca Bottazzi
Duties: **Co-supervisor**
Other supervisors: Carmelo Baglivo (principal), Giacomo Bizzarri (second), Vittorino Belpoliti, Joao Nunes
Year: 2012
Thesis Evaluation: 7/8 points

Thesis title: Biometamorfosi e controllo energetico in clima mediterraneo : riqualificazione di palazzo Parlangei a Lecce
Candidates: Ludovica Mauro, Serena Tommasi
Duties: **Co-supervisor**
Other supervisors: Silvia Brunoro (principal), Vittorino Belpoliti, Paolo Rava
Year: 2012
Thesis Evaluation: 6/8 points

Thesis title: Progettazione edilizia residenziale ad alta efficienza energetica in Ferrara: nuovi approcci metodologici integrati
Candidate: Jacopo Aste
Duties: **Co-supervisor**
Other supervisors: Giacomo Bizzarri (principal), Silvia Brunoro (second), Vittorino Belpoliti
Year: 2011
Thesis Evaluation: 4/8 points

Thesis title: Un nuovo contenitore di idee per la città di Bologna: progetto di un centro di formazione avanzata in Genetica Medica sui colli di Ronzano
Candidate: Riccardo Chiarini
Duties: **Co-supervisor**
Other supervisors: Pietromaria Davoli (principal), Michele Bottarelli (second), Vittorino Belpoliti, Giacomo Bizzarri, Laura Gabrielli, Ferdinando Laudiero, Gaspare Inglese
Year: 2010
Thesis Evaluation: 8/8 points, with honours (cum laude)

FIELDS OF RESEARCH

Existing buildings Energy retrofit: elaboration of a fast energy *audit* and refurbishment system for the social housing clusters named UPPER (Urban Parametric Protocol for Energy Retrofit) (2008 - 2011).

- *UNIVERSITY OF FERRARA, DEPARTMENT OF ARCHITECTURE – ACER REGGIO EMILIA (Social Housing Agency of Reggio Emilia, Italy).*
- *Ph.D. in Energy Technologies.*

Investigation of the potential of semitransparent photovoltaic devices applied to architecture.

Analysis of energy efficiencies of semitransparent innovative PV devices versus thermal energy performances: solar gain overheating issues in relation to large-glazing façade buildings (2005 - current).

- *UNIVERSITY OF FERRARA, DEPARTMENT OF ARCHITECTURE, Research Centre Architettura>Energia*
- *Research project financed by British Council and CRUI 2008 “Potential of organic polymer-based thin-film photovoltaic devices: components development and LCA analysis to enhance the devices energy efficiency and improve their characteristic of building integration. Transfer of research from laboratory to industry”, in cooperation with the UNIVERSITY OF NOTTINGHAM, DEPARTMENT OF ARCHITECTURE AND BUILT ENVIRONMENT, for the action **British-Italian Partnership for Young Researchers.***

Comparison analysis of existing (and regulations-compliant) building energy calculation method: matching steady-state calculation to dynamic-state one (2009 - 2011).

- *UNIVERSITY OF FERRARA, DEPARTMENT OF ARCHITECTURE, Research Centre Architettura>Energia*
- *Ph.D. in Energy Technologies (V. Belpoliti).*

Innovative lighting concepts for the historic building heritage. A research to reduce energy consumption employing LED devices, accounting for mandatory requirements of listed buildings. (2009 - current).

- *ROVER S.R.L., ROVER ATELIER - UNIVERSITY OF FERRARA, DEPARTMENT OF ARCHITECTURE, Research Centre Architettura>Energia – Group LUCE & LIGHT.*

Historical heritage energy evaluation and refurbishment: energy performance evaluation of traditional construction technologies and dynamic-state energy simulation of historical buildings (2010 - current).

- *UNIVERSITY OF FERRARA, DEPARTMENT OF ARCHITECTURE, Research Centre Architettura>Energia*
- *Supervision to the Ph.D. in Technology of Architecture (M. Calzolari).*

Elaboration of an energy survey kit to investigate real energy consumption in historical buildings, named DR-House (Diagnosis of a Real Housing Envelope) 2010 - current.

- *UNIVERSITY OF FERRARA, DEPARTMENT OF ARCHITECTURE, Research Centre Architettura>Energia*
- *Supervision to the Ph.D. in Technology of Architecture (M. Calzolari).*

Know-how transfer from academic research to architectural design experimentation.

Professional activity aimed at applying academic research outcomes (either design-related or scientific) to professional practice (*see the section Professional Achievements and Awards*).

- *Rover Divisione Atelier 2009 - 2013*
- *Self-employed professional activity 2013 - current*

RESEARCH ACHIEVEMENTS AND PARTICIPATION TO FUNDED PROJECTS

ONGOING OR COMPLETED FUNDED ACTIVITY

2016 – current Project Manager and Faculty Advisor of the **Team Know Howse**, qualified for the **Solar Decathlon Middle East 2018 in Dubai**. The team is lead by the Architectural Engineering Department of the University of Sharjah, an comprises the Research Centre Architettura>Energia of the University of Ferrara, Sharjah Investment and Development Authority, and Sheik Zayed Housing Programme.

The research activity is self-sponsored.

It is refunded up to AED 400,000.

Awards for the result, on a competition base, reach AED 900,000.

2015 – current Member of the research group of the Research Centre Architettura>Energia for the funded research project **“Unife sostenibile. Screening energetico del patrimonio edilizio dell’Ateneo di Ferrara e proposte preliminari per la fase di intervento” [Sustainable Uni-Fe. Energy audit of the building stock of the University of Ferrara and preliminary retrofit proposals]**.

University of Ferrara, Italy. Internal grant: € 55,000 (AED 220,000).

2014 – current Member of the research group of the Research Centre *Architettura>Energia* for the funded research project **“INNO-ZEB. INNOvative active and passive technologies for nearly Zero Energy Buildings”** for the call for internationalization actions of the University of Ferrara, Italy. In partnership with the University of Auckland (NZ), the University of Minho (PR), and Tianjin University (CN).

Co-investigators: **Dr. Vittorino Belpoliti**; Dr. Paola Boarin, Dr. Michele Bottarelli, Dr. Marta Calzolari, Dr. Laura Gabrielli, Dr. Donato Vincenzi;

External co-investigators: Dr. Prof. Paola Maria Leardini (University of Auckland), Dr. Prof. Paulo Mendonça (University of Minho), Zhu Neng (Tianjin University).

2013 - 2015 Member of the research group of the Department of Architecture of the University of Ferrara, lead by Prof. Arch Pietromaria Davoli and Prof. Arch. Nicola Marzot for the funded research project **“Progettare il costruito: nuovi modelli a qualita’ integrata per la citta’ compatta”** for the Regional action **Spinner 2013**. Leader partner: Department of Architecture, University of Parma; coordinator: Prof. Arch. Carlo Quintelli.

2012 Member of the research group of **Becquerel Electric s.r.l.**, for the starting semester of the Project **PROFICIENT, SME network business model for collective self-organised processes in the construction and retrofit of energy-efficient residential districts**, FP7.EeB.NMP.2012-3. Coordinator: Rizal Sebastian (TNO, Delft - NL).

2012 External consultant for the research group of the University of Ferrara in the Project **COP, Cities on Power**, European Territorial Cooperation Objective - CENTRAL EUROPE Programme - GA Nr. 3CE302P3, directed by Prof. Eng. Stefano Piva. Coordinator: Stefan Mieth (Local Agenda 21 Dresden).

2012 Member of the research group of the Research Centre *Architettura>Energia* for the elaboration of an investigation on the energy retrofit scenarios for the Municipality of Apice Vecchia (Benevento), with the aim of identifying suitable actions to improve the energy performance of the historical town while revitalizing it. (Project coordinator: arch. Paola Boarin).

2009 – 2010 Member of the research group of the Research Centre *Architettura>Energia* for the funded research project **“Potential of organic polymer-based thin-film photovoltaic devices: components development and LCA analysis to enhance the devices energy efficiency and improve their characteristic of building integration. Transfer of research from laboratory to industry”** for the action **British-Italian Partnership for Young Researchers**, awarded by British Council and CRUI. In partnership with the **SBE – University of Nottingham**.

OTHER RESEARCH ACTIVITY

In 2009 and 2010 he is **Visiting Scholar** at the **School of the Built Environment (SBE)** of the **University of Nottingham**, **doing research on energy efficiency in residential buildings, assisting the development** of the Project Creative Energy Homes, coordinated by Prof. Mark Gillott.

From 2008 he **collaborates part-time with the Energy Office of ACER Reggio Emilia** (Agency of the Social Housing of Reggio Emilia) regarding the **elaboration of building energy retrofit guidelines for the social heritage**.

In 2008 he is **consultant for the design and the energy improvement** of the **APEA (Ecologically Equipped Productive Area)** in Pavullo nel Frignano (Madonna Baldaccini), within the Operative Regional Program FESR 2007-2013 – Financial aid for the construction of Ecologically Equipped Productive Area”.

In 2006 he is **Visiting Scholar** at the **UCB, University of California Berkeley, USA**, where he attends the graduate academic activity and he meets the research of the **Lawrence Berkeley National Laboratory**. He meets the **local environmental and energy assessment protocols** and deepens the **LEED system**.

From 2004 he begins research with Prof. Eng. Giacomo Bizzarri, on **BiPV (Building integrated Photovoltaic)**. He mainly focuses on innovative semitransparent and organic PV devices, which he met, for the first time, during the time spent at the **Arkitektsskole i Aarhus (Denmark)**. He is author of several scientific papers regarding this topic and he is speaker at conferences on the scientific field.

In June 2004 he is member of the group hired by the **Museum of National History of Reikiavik (Isalnda)** for the survey campaign of religious buildings spread throughout the island.

PUBLICATIONS

- V. Belpoliti** “From university theory to professional practice: a prototype house designed, built, and operated by students to educate to an environmentally sustainable lifestyle” Proceedings of the joint 8th IFEE 2017 and 3rd TSDIC2017, Sharjah, United Arab Emirates, April 18 – 20, 2017.
- V. Belpoliti**, G. Bizzarri, M. Calzolari, E. Cattani, P. Davoli, S. Pitzianti, A. Rinaldi “Energy screening of wide building stock”, 41st IAHS World Congress “Sustainability and Innovation for the Future”, 13-16th September 2016, Albufeira, Algarve, Portugal.
- V. Belpoliti**, P. Boarin, P. Davoli, N. Marzot “Densifying the city: urban recycle as a strategic system to refurbish the built environment”, *Techne – Journal of Technology for Architecture and Environment* 10 (2015), Firenze University Press. Published online at <http://www.fupress.net/index.php/techne/article/view/17515>. Hard copy *in press* 2015.
- V. Belpoliti** “Productive skylines in natural landscapes”, *Paesaggio Urbano*. 3 (2015), Editore Maggioli, June 2015.
- V. Belpoliti**, G. Bizzarri “A parametric method to assess the energy performance of the social housing stock and simulate suitable retrofit scenarios: an Italian case study”, *Energy Build.* 96 (2015) 261–271.
- V. Belpoliti** “Il razionalismo è in attivo. Restyling e ampliamento della sede del gruppo Tozzi a Ravenna, tra rilettura formale e innovazione tecnologica” [The active rationalism. Restyling and enlargement of the new offices of Tozzi Group in Ravenna, between morphological reinterpretation and technological innovation], *ArchitettaRE – rivista dell’Ordine degli Architetti della Provincia di Reggio Emilia* (2015).
- V. Belpoliti**, P. Boarin, M. Calzolari, P. Davoli “Innovative methods for a sustainable retrofit of the existing building stock. A cross-path from social housing to the listed heritage”, *Techne – Journal of Technology for Architecture and Environment* 8 (2014) 181-189, Firenze University Press, August 2014.
- V. Belpoliti** “La nuova scuola di musica di Finale Emilia. La ricostruzione passa per interventi innovativi” [The new school of music of Finale Emilia. Reconstruction goes through innovation], *Recupero e Conservazione* (online magazine), De Lettera Editore, January 2014.
- V. Belpoliti** “Recupero (degli spazi) e conservazione (della memoria). Riutilizzo di un ex edificio industriale come motore di trasformazione per la Darsena di Ravenna” [Refurbishment of spaces and conservation of the memory. Reuse of a former productive building as start-up for the industrial area in Ravenna], *Recupero e Conservazione* (online magazine), De Lettera Editore, December 2013.
- V. Belpoliti**, P. Boarin, M. Calzolari, P. Davoli “La riqualificazione energetico-ambientale del tessuto storico. Un borgo eco-sensibile per tradurre il sisma in opportunità” [Energy and environmental refurbishment of the historical settlement. A sustainable village to translate earthquake into opportunities], contributo in volume “The building retrofit challenge”, a cura di S. R. Ermolli, V. D’Ambrosio, Alinea Editrice, 2012.
- M. Andreotti, **V. Belpoliti**, G. Bizzarri, M. Calzolari, G. Cibinetto, P. Davoli “Diagnosis of a Real Housing Envelope (DRHouse). Metodi per la valutazione dello stato di fatto energetico negli edifici storici” [Diagnosis of a Real Housing Envelope (DRHouse). Methods for the benchmark energy assessment in historic buildings], Congress AIGE 2012, Ferrara, June 2012
- V. Belpoliti** “Elaborazione di un protocollo di diagnosi e riqualificazione energetica parametrica per l’edilizia residenziale sociale” [Elaboration of a parametric protocol for the energy diagnosis of the social housing], Congress AIGE 2012, Ferrara, June 2012.
- V. Belpoliti**, G. Bizzarri “Politiche energetiche e riduzione delle emissioni di CO₂ nel patrimonio edilizio sociale della regione Emilia-Romagna” [Energy policies and CO₂ emission reduction in the social housing heritage of the Region Emilia Romagna], *L’Ufficio Tecnico*, Maggioli Editore, November-December 2011.

V. Belpoliti, P. Boarin, M. Calzolari, P. Davoli “Borgo_clima. Un metodo di valutazione speditiva e di programmazione dell'intervento di riqualificazione energetica e ambientale del tessuto storico” [**Borgo Clima. A preliminary energy and environmental assessment and definition of suitable retrofit intervention of the historical heritage**], Recupero e Conservazione, De Lettera Editore, September/October 2011, n. 100.

G. Bizzarri, V. Belpoliti “The potential of semitransparent photovoltaic devices for architectural integration. The development of device performance and improvement of the indoor environmental quality and comfort through case-study application”, *Sustainable Cities and Society* 1 (2011) 178– 185, Elsevier, 2011.

V. Belpoliti, G. Bizzarri “La diagnosi energetica dinamica nell'edilizia storica: un'operazione di *energy retrofit* mediante interventi soggetti ai fenomeni transitori” [**Dynamic-state energy analysis in the historical heritage: and energy retrofit action accounting for climate dynamic influence**], Congress ATI 2010, Cagliari, September 2010.

V. Belpoliti, G. Bizzarri, M. Calzolari “La trasmissione di calore attraverso sistemi fotovoltaici semitrasparenti integrati: valutazioni preliminari in regime dinamico su due casi studio dell'area ferrarese” [**Heat transfer through semitransparent PV devices: preliminary analysis on two case studies**], Congress AIGE 2010, Roma, June 2010.

V. Belpoliti, G. Bizzarri, G. Ligabue, Montanari “Scenari di *energy retrofit* del patrimonio edilizio residenziale pubblico: politiche energetiche e riduzione delle emissioni di CO₂ nella Regione Emilia Romagna” [**Social housing energy retrofit scenarios: energy policies and CO₂ reduction in the Italian Region Emilia Romagna**], Congress UIT 2009, Brescia, April 2010.

G. Bizzarri, E. Lambertini, V. Belpoliti, A. Lambruschi “Linee guida per la riqualificazione energetica delle aree industriali” [**Energy refurbishment guidelines for productive areas**], Congress AIGE 2009, Parma, June 2009.

V. Belpoliti “Il biossido di titanio nei materiali da costruzione” [**Titanium dioxide in construction materials**], Recupero e Conservazione, De Lettera Editore, March/April 2009.

V. Belpoliti, G. Bizzarri, M. Bottarelli “Prove di Energy Retrofit” [**An energy retrofit case study**], CDA, AICARR official journal, March 2009.

V. Belpoliti “La simulazione energetica tra normativa, professione e ricerca. Review dei software differenti per caratteristiche e target” [**Building energy simulation between regulations and research. Review of the different software**], L'Ufficio Tecnico, Maggioli Editore, February 2009.

V. Belpoliti, “L'innovazione tecnologica nel recupero energetico. I dispositivi fotovoltaici semitrasparenti” [**Technological innovation in the energy retrofit. Semitransparent PV devices**], InArCos, Editore ASSIABO, February 2009.

V. Belpoliti, G. Bizzarri, M. Bottarelli “Interventi di energy retrofit attraverso l'utilizzo di dispositivi Fotovoltaici Semitrasparenti” [**Energy retrofit interventions through the use of semitransparent photovoltaic devices**], CDA, AICARR official journal, February 2009.

V. Belpoliti “Progettazione sostenibile virtuale. Dalla fase metaprogettuale alle valutazioni di prestazione energetica” [**Virtual sustainable design. From conceptual stage to energy performance evaluation**], Recupero e Conservazione, De Lettera Editore, January/February 2009.

V. Belpoliti “L'utilizzo di biossido di titanio nei materiali per l'edilizia: funzione energetica attiva e passiva” [**The use of titanium dioxide in building materials: active and passive energy action**], L'Ufficio Tecnico, Maggioli Editore, January 2009.

G. Bizzarri, M. Bottarelli, V. Belpoliti, P. Pastore, G. Prearo, A. Pratissoli “Potential in GHG emission abatement through an effective energy policy: the Reggio Emilia case”, Wessex Institute Conference, Skiathos, WIT Press 2008, September 2008.

P. Pastore, P. Neri, G. Bizzarri, V. Belpoliti “Analisi LCA di impianti solari termici integrati” [**LCA analysis of building-integrated solar thermal systems**], Congress ATI 2008, Palermo, July 2008.

G. Bizzarri, G. L. Morini, **V. Belpoliti**, P. Pastore “Il ciclo di vita di un impianto fotovoltaico (Analisi LCA di sistemi fotovoltaici integrati)” [**PV system life cycle (LCA analysis of building integrated photovoltaic devices)**], PV Technology, April 2008.

V. Belpoliti, G. Bizzarri, M. Bottarelli “Interventi di Energy Retrofit attraverso l’utilizzo di Dispositivi Fotovoltaici Semitrasparenti” [**Building energy retrofit using semitransparent photovoltaic devices**], Congress AICARR 2008, Milan, September 2008.

V. Belpoliti “Sistemi vetrati in copertura: una review delle tecnologie ad elevate prestazioni energetiche” [**Roofing glazing systems: a review of energy efficient devices**], L’Ufficio Tecnico, Maggioli Editore, March 2008.

V. Belpoliti “Progetto di energy retrofit del complesso direzionale di Palazzo degli Specchi a Ferrara” [**Energy retrofit proposal for the office complex named *Palazzo degli Specchi* in Ferrara, Italy**], Recupero e Conservazione, De Lettera Editore, January/February 2008.

G. Bizzarri, **V. Belpoliti**, I. Di Federico “Sistemi fotovoltaici semitrasparenti, una review della tecnologia attraverso l’esame delle sue potenzialità nei sistemi integrati” [**Semitransparent PV devices, an investigation of the technology’s potential within building-integrated systems**], Congress ATI 2007, Salerno, September 2007.

“Transparent Facader” - Danish Technological Institute, web publication, *Danske Teknologiskinstitute*, www.solarcell.dk, January 2004.

PROFESSIONAL ACHIEVEMENTS

- From 2013 he is **self-employed** and cooperates on a regular base with arch. Alfredo Borghi, arch. Cecilia Carattoni, arch. Riccardo Chiarini, arch. Sara Fabbri, arch. Valeria Farinelli, and arch. Stefano Mezzogori.

On-going projects:

- School of music in Finale Emilia, Modena. *Construction on-going. Completed April 2015;*
 - Refurbishment of housing in Finale Emilia, Modena. *Construction phase. Expected Completion September 2015;*
 - Housing in Vigarano Mainarda, Ferrara. *Design phase;*
 - Refurbishment of housing in Pieve di Cento, Modena. *Design phase;*
 - Interior design of private house in San Bartolomeo, Reggio Emilia. *Design phase;*
 - Interior design of private house, Reggio Emilia. *Design phase;*
 - Refurbishment and interior design of private house, Correggio, Reggio Emilia. *Project complete.*
 - Conversion of the historical town of Mandonico in hotel and new construction of service building. *Design phase;*
- In 2012 creates **ARCA Engineering** (www.arcaengineering.com) with arch. Stefano Focaccia, arch. Cesare Tremendelli, eng. Alessandro Lombardini, arch. Emanuele Piaia and Studio Monti Ingegneri Associati, an enterprise network for internationalization processes, with particular focus on the Indian market;
 - 2009 – 2013 **collaboration** with **Rover s.r.l.**, engineering group based in Bologna, Italy;

Completed projects:

- New school complex in Castello di Godego, Treviso. *Preliminary project completed;*
 - Private house enlargement in Bologna. *Construction completed.*
- In 2009 creates **Rover Divisione Atelier** (branch of Rover s.r.l.) with arch. Gaspare Inglese, arch. Marta Calzolari, eng. Antonio Domenicali, arch. Sara Fabbri, and arch. Stefano Mezzogori, for design research and structured participation to design competition. *See competition section for details on awards.*
 - From 2008 he is **external consultant for architectural and engineering practices, concerning energy efficiency and environmental design**. Collaborates with: Laboratorio di Architettura (Reggio Emilia), BB Architetti (Reggio Emilia), Andrea Oliva Architetto (Reggio Emilia), Ticonzero Architetti (Ferrara), Cristina Garavelli Architetto (Ravenna), Arch. Giovanni Mecozzi (Ravenna), Arch. Alfredo Borghi (Madrid).
 - From 2008 to 2010 he **collaborates part-time with the Energy Office of ACER Reggio Emilia** (Agency of the Social Housing of Reggio Emilia) regarding the **elaboration of building energy retrofit guidelines for the social heritage**. The cooperation is still active, but on an advisory base.
 - From 2007 to 2010 **collaborates with Becquerel Electric s.r.l.**, Reggio Emilia, and designs photovoltaic plants for over 10 MWp.
 - From 2007 **collaborates with the professional activity of Arch. Maurizio Belpoliti**, particularly regarding architecture and environmental design at building and urban level.

Completed projects:

- Revitalization of the former water tower in Carpi, Modena, 2014. *Preliminary project completed;*
 - Feasibility study for the Municipality of Novellara (Reggio Emilia) for the modification of the General Urban Plan (P.T.C.P. - Piano Territoriale di Coordinamento Provinciale) in regards to a lot to be committed to office/retail program. 2008. *Work completed.*
 - Extension of the cemetery of the Municipality of Rescaldina, Milano, 2012. *Construction completed.*
 - New cemetery of the Municipality of Rubiera, Reggio Emilia. 10°, 11°, 12°, and 13° section of the general plan (designed by Arch. Maurizio Belpoliti in 1982). 2007-2012. *Construction completed.*
 - Extension of the cemetery of the Municipality of Rescalda, Rescaldina (Milano), 2011-2012. *Construction completed.*
 - Extension of the cemetery of the Municipality of Solbiate Olona (VA), 2011-2012. *Construction completed.*
 - Modification to the General Urban Plan (P.R.G.) of the Municipality of Rescaldina, Milano, 2008. *Work completed.*
 - Extraordinary maintenance of the junior high school of Campitello, Marcaria (Mantova), 2008. *Construction completed.*
 - Extension of the cemetery of the Municipality of Avigliana, Turin, 2008. *Design phase completed.*
- In 2006 he **cooperates with Arch. Costanza Cavicchi** regarding architectural design assistance and graphic design.

Completed projects:

- Refurbishment of the historical building “Caserma di via Palestro a Ferrara” and reconversion in Police Headquarter, Ferrara. *Preliminary project completed – the construction has been built by the technical office of the Police.*
- In 2004 he **cooperates with Arch. Giuliana Panizzi** regarding architectural design assistance and graphic design.

Completed projects:

- Refurbishment of the Theatre square in Felino, Parma. *Preliminary project completed.*

AWARDS

- Supervisor of the Senior Project “**Designing from Waste**”, awarded the **First Prize** – Abu Dhabi University Undergraduate Reserach Award 2017. Students: Ayah Mahdi Mohammed Alkhulaifi, Heba Samih Abbas, Mahmoud Ahmad Mahmoud Abu Ali.
- **First Prize** – **Appalto integrato complesso or l’affidamento d’incarico dell progettazione definitive, esecutiva ed esecuzione dei lavo per la realizzazione della Casa della Salute a Bondeno, Ferrara** [Tender - Design and Build of the Healthcare Centre in Bondeno, Ferrara - Italy], with UTeCo.
- **Second Prize** - **Concorso di progettazione Ripristino Palazzina ex MOF sede dell'Ordine degli Architetti di Ferrara** [Competition: Refurbishment of the former market-offices to become the office of the Architects Association, chapter of Ferrara] with Arch. Riccardo Chiarini, Arch. Valeria Farinelli e Arch. Stefano Mezzogori. Ferrara, March 2014.
- **Mention (shortlisted for second phase)** - **Concorso di progettazione Senior City, Cortina d’Ampezzo** [Competition: Senior City, Cortina d’Ampezzo, Belluno], with Arch. Alfredo Borghi and Arch. Cecilia Carattoni. Cortina d’Ampezzo (Belluno), February 2014.
- **Third Prize** as member Rover Divisione Atelier - **Concorso di idee Riqualficazione e valorizzazione isola archeologica del mosaico romano** [Competition: Refurbishment and valorization of the archeological site of the Roman mosaic], S. Salvo (Chieti), November 2013.
- **First Prize** as member Rover Divisione Atelier - **Concorso di progettazione del Nuovo Polo Scolastico del Comune di Castello di Godego (Treviso)** [Competition: Design of the new school complex in Castello di Godego], February 2012.
- **Third Prize** - **Concorso di idee per la realizzazione del centro polifunzionale, Comune di Fiesse** [Competition: Design of a multipurpose Municipality centre], with Arch. Giovanni Mecozzi and Arch. Alfredo Borghi. Fiesse (Brescia), March 2012.
- **Second Prize** - **Concorso di idee Realizzazione di un complesso scolastico** [Competition: Design of the new school complex], with Arch. Giovanni Mecozzi and Arch. Alfredo Borghi. San Mauro Pascoli (Forli-Cesena), November 2011.
- **First Prize** as member Rover Divisione Atelier - **Concorso di idee Trasformati dalla Luce** [Competition: Transformed by the light] for the design of an innovative lighting system for the main façade of the Chamber of Commerce of Bergamo, August 2011.
- **First Prize** as member Rover Divisione Atelier - **Concorso di idee Centro San Pietro, Arco** [Competition: Design of a new residential complex named Centro San Pietro]. Arco (Trento), June 2011.
- **First Prize** - **Concorso di idee per lo studio di proposte ideative relative alla riqualificazione ambientale e al recupero funzionale (edilizio-architettonico) del nucleo storico di Mandonico** [Competition: design proposals for the functional refurbishment of the historical burg Mandonico], with Arch. Giovanni Mecozzi and Arch. Alfredo Borghi. Dorio (Lecco), May 2011.
- **Third Prize** as member Rover Divisione Atelier - **Concorso di idee per gli interventi di valorizzazione del fondo Cossar** [Competition: design proposals for reactivation of the Archaeological site “fondo cossar” in Aquileia], Aquileia, March 2011.
- **Environmental and energy consultant** for the **First Prize** (Arch. Andrea Oliva) - **Concorso di progettazione ad inviti per il Tecnolpo per la Ricerca alle Ex Reggiane** [Competition: design proposals for a research facility, University of Reggio and Modena], Reggio Emilia, 2010.

- **Second Prize** - **Concorso di idee per la valorizzazione del sito museale Antiquarium** (Villa del Foro) mediante interventi volti a massimizzare la prestazione energetica dell'edificio” [Competition: design proposals for the functional and energy refurbishment of the Museum of local archaeology, Alessandria], Alessandria, December 2009.
- **First Prize** - **Energethica 2008 - Giovani talenti nel campo dell'energetica** e della sostenibilità ambientale, [Architectural Prize: young talents in the field of energetics], Fiera Energethica di Genova, March 2008.
- **Environmental and energy consultant** of the group **First Prize** (BB Architetti) - **Concorso di idee Pratonera una nuova dimensione dell'abitare**. Idee ed immaginazioni architettoniche – ambientali per una nuova area residenziale [Competition: design proposals for a new environmental sustainable residential area], Caviago (RE), 2008.
- **Special Mention - Prize “Guido Nardi 2008 –Innovation in transparency”**, Department BEST – Milan Politecnico, January 2008.
- **First Mention** - **Concorso L'architettura Bioecologica** [Competition: Bio-ecologic Architecture], FantiniScianatico S.p.A. Pescara, October 2008.
- **First Prize SIPRO 2008** Edifici industriali eco-sostenibili ed energie rinnovabili [Competition: design proposal for new eco-sustainable industrial buildings], with Arch. Giovanni Mecozzi e Arch. Alfredo Borghi. Ferrara, June 2008.