



Recovering the Past to create a sustainable Future Summer Training course - Ferrara, Italy – July 24 – July 29 2011

Course Outline

Continuing Education Program

Course Name: *Recovering the Past to Create a Sustainable Future*

Start Date:	Arrival Sunday July, 24 th	End Date:	Friday July 29 th 2011
Total Hours:	26 Not including travel or Free time.	Course Credits:	26 CORE (RAIC)

Course Description:

This course takes place in Ferrara, Italy and is directed at architects, teachers, design professionals and allied built-environment professionals, as it examines the applications of Restoration of Historic buildings and Innovative Sustainable Practices in Design. The course will be divided in two parts, part One will focus on Architectural Conservation of Cultural Environmental Heritage and Part Two on Sustainable strategies and installations of renewable energy including technical economical aspects relating to energy efficient design.

The course examines historical applications, current issues, emerging technological advances, and provide technical information restoration and renewable energy.

The course utilizes interactive learning and active learning, through examination of demonstration sites and case studies, and design process.

Course learning outcomes will include:

1. Developing a common framework for the restoration of cultural heritage buildings;
2. To understand the integration and validation of Building Heritage from a rural to urban example;
3. To Develop methods which will be used to analyze project restoration priorities utilizing both traditional and contemporary innovative strategies;
4. Identify technical issues used to deploy renewable energy technologies within new and existing buildings;
5. Accessing and integrating the utilization of renewable energy in the built environment as a sustainable strategy while satisfying client objectives.

Course Delivery:

Part One

Preserving the cultural past of any country involves the overcoming of economic barriers and the adaptation of innovative restoration techniques in order to preserve the heritage of buildings which were instrumental in creating and defining where we exist today.

Using investigative Case Studies of Completed Building projects in conjunction with the Architects and professionals who were instrumental in overcoming economic as well as technical features the participants will be involved in both lecture and on site tours of National and Private projects focusing on detailed views and innovative technical practice of Historic Restoration.



Recovering the Past to create a sustainable Future
Summer Training course - Ferrara, Italy – July 24 – July 29 2011

Part Two

International adoption of any sustainable technology in the building industry requires a short economic payback time and compatibility with today's building construction practices. Professionals as well as the public require evidence that the built reality offers concrete proof and demonstrates that passive design and installations are an effective way to illustrate the compatibility and economic soundness of renewable energy in design while demonstrating the versatility of the approach.

This portion of the course involves presentation and discussions with local professionals and site visits to Case studies chosen as European best practice models. The second part of the course will focus on the use of renewable energy at both the private and public levels of building architecture.

Learning Resources:

- On site presentations
- On site Case Studies



Recovering the Past to create a sustainable Future
Summer Training course - Ferrara, Italy – July 24 – July 29 2011

Proposed Schedule (subject to change)

Start (duration)	Part & Description	Learning Methodology	Presenter	Learning outcomes
July 24th	Arrivals in FERRARA Participants Check in Welcome & Introductions			More details will be forthcoming once participants have registered.
16:00_18:00	FERRARA The Historic city centre.	Guided tour		Retention of the Core Fabric
July 25th	FERRARA			
10:30_13:00	FERRARA: the Renaissance city	Guided tour		The Significance of the past
15:00_18:00	RESTORATION EXCELENCE	Case Study		Restoration techniques as applied to historic buildings, including discussions with the restoration experts on the art of restoration and Conservation of the Cultural and Environmental Heritage.
July 26th				
09:30_12:30	MEIS (National Museum of Judaism and the Shoah).	Case Study		An in depth evaluation of the International Design competition.
July 27th	BOLOGNA			
10:00_11:00	GENUS BONONIAE City Museum			In depth look at the network of museums of Bologna & the creation of an integrated museum network
11:00_13:00	Fava Palace			In depth review of the restoration project with the Architects and designers.
July 28th	BOLZANO			
09:00_09:30	TIS Innovation Park			Introduction about the European model for energy efficiency technology and innovation
09:30_10:30	CASACLIMA		Norbert Lantschner – Head of CasaClima	A national standard for energy efficiency and sustainable design
10:45_12:15	Alto Adige Head Office of the Salewa sport factory	Case Study	Heiner Oberrauch (Oberrauch group), Georg Felderer (Energytech)	Presentation with Designers and Agencies involved.
14:15_15:45	General post office CasaClima Gold	Case Study	Michael Tribus	CasaClima Gold plus certificate
16:30_18:30	Primary school in Lajon/Novale	Case Study	Johann Vonmetz	CasaClima Gold plus certificate
July 29th	Case Studies in Alto Adige			
09:00_11:00	Naturalia-Bau properties	Case Study	Roland Gabasch	The first zero-emission commercial building in Italy (energy efficiency with a CasaClima Gold plus certificate)
11:00_13:00	Bio Vital Hotel Theiners Garten	Case Study	Stefan Hütter	The first zero-emission hotel building in Italy



Recovering the Past to create a sustainable Future
Summer Training course - Ferrara, Italy – July 24 – July 29 2011

Project Coordinator:

Maddalena Coccagna, architect, member of the LEM (until 1996) at the Faculty of Architecture of Ferrara, where she was lecturer of Building and Environment Assessment Techniques (2005-2010), becoming University Researcher in 2010 joining the TekneHub Laboratory staff. PhD on Building Technology (2000/02) and a long experience on National and International activities, including didactical programs with international partnerships and EU research program as: Cost Action C5 (1997), Brite Euram 4676 (1998), IFD Building (2001), Villas Interreg IIIB (2004) and SuREFit Intelligent Energy (2007). She works also as an architect until 1999.

[<http://docente.unife.it/maddalena.coccagna>]

Partnerships:

The following represents a list of the consortium members who have participated in the advancement of this program:

MEIS (National Museum of Judaism and the Shoah), Ferrara

<http://www.emiliaromagna.beniculturali.it/index.php?it/22/eventi/61/premiazione-del-concorso-internazionale-del-museo-nazionale-dellebraismo-italiano-e-della-shoah>

GENUS BONONIAE City Museum, Bolzano

LABO.R.A (LABORatorio di Restauro Architettonico - Laboratory of Architectural Restoration) <http://www.unife.it/dipartimento/architettura/attivita-di-ricerca/centri-di-ricerca-2/labora>

Dept. of Architecture at the Ferrara University

The Regional Laboratory TekneHub in Ferrara

CASA CLIMA, www.agenziacasaclima.it, www.tis.bz.it

Cino Zucchi Architects and Park Ass. (Milan)

Energy Tech (Bolzano)

Bio Vital Hotel Theiners Garten

Alto Adige TIS_Innovation Park

Enertour, <http://www.enertour.bz.it/en/progetto-enertour>