



**Politecnico
di Torino**

Dipartimento
di Architettura e Design



Restoration methodology

Master degree Architecture for Heritage

Manuela Mattone

Topics

Conservation issues:

- theoretical aspects;
- practical/application aspects.

Activities

- Lectures;
- Conferences;
- Site visits;
- Flipped classrooms;
- Final assignment.

Conferences

Master's degree course *Architecture for Heritage*

Lecture promoted within the *Restoration methodology course*
Teacher: Manuela Mattone



The Conservation Challenges of Industrial Heritage

Dr Miles Ogilthorpe

There can be no other branch of the built heritage that poses quite such a large and complex range of conservation challenges. This is because it represents such a broad range and scales of sites, varying from unrecognisable ruins to enormous production complexes, and from artefacts and documents in museums and archives to the intangible heritage associated with sites, processes and individual objects.

For the purposes of this lecture, the aim is to focus primarily on sites and structures where there are substantial remains which require conservation programmes to survive. In particular, it will discuss issues relating to the conservation of steel, and the importance of conserving the traditional skills that are necessary to ensure future generations can care for our industrial heritage.

Dr Miles Ogilthorpe is President of the International Committee for the Conservation of the Industrial Heritage (TICCIH), and is Head of Industrial Heritage at Historic Environment Scotland.

A Durham University graduate, he completed his PhD at Glasgow University, subsequently moving to Strathclyde University's Scottish Industrial Archaeology Survey Unit in 1983. In 1985 he joined the Royal Commission on the Ancient and Historical Monuments of Scotland, from where he moved to the Scottish Government heritage agency, Historic Scotland, in 2007. Since then, his work has included leading the team that successfully nominated the Forth Bridge for UNESCO World Heritage listing.

He has worked with international partners on industrial heritage, notably in Norway, Japan and Saudi Arabia, and led the team responsible for preparing the successful World Heritage nomination for the Forth Bridge (inscribed in 2015).

He has edited, authored and co-authored a number of books and papers relating to industrial heritage, and energy in particular. Of these, his book, *Scottish Collieries: An Inventory of the Scottish Coal Industry in the Nationalist Era (2008)* is the most significant, containing the fruits of many years' work on Scotland's coal industry. He also helped establish *Capturing the Energy*, an initiative established by the University of Aberdeen. Of the UK, TICCIH and other partners which is attempting to ensure the achievements of the UK's offshore oil and gas industries are properly recorded and recognised.

TICCIH website: <https://ticcih.org/>

Historic Environment Scotland website: <https://www.historicenvironment.scot/>

Link to the event will be available approx. 30 minutes earlier.



November 10, 2021
10:00 AM
Virtual Classroom
Platform BBB
Politecnico di Torino

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Foto: M. Ogilthorpe - Historic Environment Scotland

Master's degree course *Architecture for Heritage*

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Chapel of the Holy Shroud, Turin, Italy

Marina Ferroggio

On the night of 11-12 April 1997, a fire caused extensive damage to the Chapel of the Holy Shroud of Turin. The 17th-century Chapel, constructed to house the religious relic of the Shroud which is believed by some to be the cloth in which Jesus of Nazareth was buried, is the masterpiece of architect Guarino Guarini. The Chapel had been closed seven years previously when a piece of marble from the cornice had fallen, presenting a danger to the public.

These events marked the beginning of a long and challenging structural and architectural restoration, made even more complex due to the fact that the supporting structure of the Chapel had never been fully investigated and interpreted. The restoration was funded by the Ministero per i Beni e le Attività Culturali with the support of the Compagnia di San Paolo, Fondazione La Stampa - Specchio del Tempo, the Consulta per la Valorizzazione dei Beni Artistici e Culturali di Torino, Iren Spa and Performance in Lighting.

New safety and lighting systems have been added to guarantee public use of the Chapel, together with new educational elements, such as videos and virtual reality stations. Thanks to the determination and the work that involved hundreds of people in a very delicate restoration over a time span of twenty years, the building is now accessible to the public and is included in the tour of the Royal Museums of Turin.

Marina Ferroggio graduated with honors in Architecture at the Polytechnic of Turin in 1985 and specialised with honors in Conservation of Monuments at the Polytechnic of Milan in 2009.

Between 1997 and 2009 she worked at the Polytechnic of Turin as a director and designer of restoration building sites of the Castle of Valentino.

Since 2009 she operated at the Ministero per i Beni e le Attività Culturali e per il Turismo, until 2017 at the Soprintendenza Archeologia, Belle Arti e Paesaggio per la città metropolitana di Torino, from 2018 at the Mayor (Mayor) of Turin, dealing with the coordination, design and supervision of works for the restoration and reopening to the public of the Shroud Chapel and the Royal Gardens.

She currently works in the Structures and Safety Area of the Royal Museums of Turin, where she is engaged in the care and management of the oldest part of the residence, consisting of the Royal Palace with the Shroud Chapel, the Royal Gardens, the Royal Armory and the Royal Library. The Royal Museums of Turin are located in the heart of the historic city of Turin and cover an area of about 30,000 square meters, surrounded by 5 hectares of parkland - the Royal Gardens.

Link to the event will be available approx. 30 minutes earlier.



November 03, 2021
10:00 AM
Virtual Classroom
Platform BBB
Politecnico di Torino

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Foto: M. Ferroggio - Ministero Beni e Attività Culturali

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10 Metaphors regarding the reuse of buildings under heritage protection: Castle of Wittemberg, a case study

José Gutiérrez Marquz

Architects have always been collectors of metaphors without always knowing it. It could be argued further that architects are in a symbiotic relationship with metaphors since unknown time, but we are hardly aware of it. Some of us still call them "images", some of us believe they are just casual formal similarities, the clever ones, like Le Corbusier, with subliminal intuition, collected them under the name of "Poetic reaction" objects.

José Mario Gutiérrez Marquz, born 1958 in Rosario/Argentina, graduated in 1981 with a Master in Architecture at Universidad Nacional de Rosario and in 1990 with a Master in Architecture at the Istituto Universitario di Architettura di Venezia (IUAV). In 1992, he founded Bruno Fiorini Marquz together with Piero Bruno and Donatella Fiorini in Berlin. In 2010 a branch office was opened in Lugano, Schweiz. Main focus in the work of Bruno Fiorini Marquz are cultural buildings, particularly in the context of UNESCO World Heritage sites as well as residential and educational buildings. Bruno Fiorini Marquz has won numerous prizes at national and international competitions as well as awards and citations for design excellence, among them the Detail Special Award, the Hugo Häring Award, DAM Award for Architecture in Germany and Deutscher Architekturpreis. Multiple times a guest professor, between 2007 and 2010 he has been invited as professor for "Building within existing Architecture" at the Brandenburg University for Technology Cottbus/Siehnberg, Germany. Since 2011, he is Professor for Architectural Space and Design at the Bauhaus-Universität, Weimar, Germany. Since 2013 he is a member of the Architectural Advisory Board of the Hanseatic City of Stralsund.

Link to the event will be available approx. 30 minutes earlier.



October 13, 2021
10:00 AM
Virtual Classroom
Platform BBB
Politecnico di Torino

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Foto: M. Gutiérrez Marquz - https://www.bfm.it

Site visits



Flipped classrooms



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2021/2022

OIVMCTE
RESTORATION
METHODOLOGY

TEACHER
M. MATTONE

THEME
CONSERVATION
AND ADAPTIVE
REUSE OF THE
INDUSTRIAL
HERITAGE

STUDENT
S294382
María Paula
Andrea ARDILA
RODRIGUEZ

BOARD
1

FRAC Dunkerque Lacaton & Vassal



THE PLACE

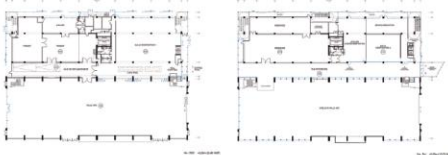
The FRAC North region is located on the Dunkirk site in a former ship depot called Halle AP2. The Halle AP2 is a singular and symbolic object. Its internal volume is immense, bright and impressive, with a great untapped potential.



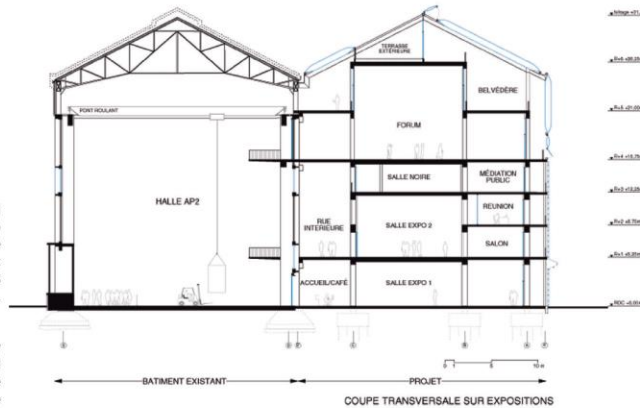
Dunkirk's story echoes so many industrial centers that deteriorated after World War II: the wartime production that kept the city alive during the conflict eventually collapsed, causing large swaths of the urban fabric to become uninhabited and unemployment to rise.

As people moved away in search of more stable opportunities, industrial areas fell into disuse and disrepair. In Dunkirk, the shipbuilding structures (corridors, dry docks, and harbors) that occupied the town's waterfront were demolished or abandoned.

Among those left to rot was what is now FRAC's Halle 2, a majestic building whose large windows and cavernous scales elevated a standard manufacturing space to something almost sacred. Locals called it "The Cathedral."



Photographs : © Philippe Ruault
Credits : © Lacaton & Vassal



"Implementing the FRAC, as a catalyst for the new area, and also to maintain the halle in its entirety becomes the basic idea of our project."

- Lacaton & Vassal



Flipped classrooms



H7, Restoration of the Halle Girard to become the new Lyon French Tech digital business incubator

Client : SPL LYON CONFLUENCE

Lead architect : Vurpas Architectes

Surface area : 4083m²

Cost of works : 7.06M euros excluding tax

Work dates : July 2017 - December 2018

Handover : January 2019

SOURCES

- **Vurpas architectes** : <https://vurpas-architectes.com/projets/activites/h7>
- **Vurpas architectes, presse release** : <https://vurpas-architectes.com/uploads/vurpas-architectes-dossier-presse-h7.pdf>
- **Lyon Confluence, presse release** : https://www.lyon-confluence.fr/sites/default/files/media/downloads/dossier_de_presse.pdf
- **H7 website** : <https://h-7.eu/>
- **Chroniques d'architectures, Halle Girard (Lyon) revue par Vurpas Architectes** : <https://chroniques-architecture.com/h7-halle-girard-lyon-vurpas-architectes/>
- **DIVISARE, VURPAS ARCHITECTES H7 – LYON CONFLUENCE** <https://divisare.com/projects/415660-vurpas-architectes-kevin-dolmaire-brice-robert-h7-lyon-confluence>
- **Le progrès, Lyon Confluence: la halle Girard totalement rénovée pour accueillir des start-up** : <https://www.leprogres.fr/rhone-69-edition-lyon-metropole/2019/02/21/lyon-confluence-la-halle-girard-totalement-renovee-pour-acueillir-des-start-up>
- **AIA Environnement, 15.05.2019 Inauguration de H7, lieu incubateur frugal lyonnais qui valorise le patrimoine bâti** : <https://environnement.aiaifedesigners.fr/actualite/inauguration-de-h7-lieu-incubateur-frugal-qui-valorise-le-patrimoine-bati/>

Emma ANDRE
Politecnico di Torino
2021/2022