

MADRID 2025 Second CONCRETO Day!

On 11 April 2025, the Spanish Council of Civil Engineers will host CONCRETO Day, the second public event of the CONCRETO project dedicated to the conservation of reinforced concrete structures.

CONCRETO Day will highlight projects and case studies that represent good practice in Spain in the rehabilitation of reinforced concrete structures. Participants will learn from practitioners through case studies: Topics will range from the rehabilitation of small to medium-sized public and private buildings to major ongoing interventions, such as the diagnosis and dismantling of the Francisco Silvela flyover in Madrid, and the recently completed rehabilitation of the Legazpi Fruit and Vegetable Market in Madrid.

CONCRETO is an international Erasmus+ training project bringing together 13 partners from four European countries (Italy, Spain, the Netherlands and Belgium) and Türkiye. It aims to promote sustainable practices for the regeneration of reinforced concrete structures through an interdisciplinary and practical approach, in line with the orientation and invitation of European institutions to implement sustainable regeneration and recovery strategies for the European built heritage.

CONCRETO has a two-fold approach: on the one hand, it organises training activities and practical workshops on the techniques for the recovery and restoration of reinforced concrete structures; on the other hand, it develops guidelines for professionals on the recovery and conservation of such structures.

"CONCRETO Academy is founded on the principle of 'Learning by Doing' to equip learners with the essential knowledge and skills for rehabilitating reinforced concrete structures. Bringing together university students, construction school trainees, and young professionals, CONCRETO Academy fosters cross-sector



collaboration among key industry players to shape the experts of the future”, explains Scientific Director Irene Matteini.

30 students from Italy, Spain and Türkiye take part in the annual CONCRETO Academy, following three activities: CONCRETO Stepping Stone, an online introduction in January, CONCRETO Master Your Skills, the course at the Spanish Council of Civil Engineers campus in Madrid from 3-12 April, and finally CONCRETO Masterpiece, from 13 July to 9 August 2025, with lessons in the buildings of the UNESCO site in Ivrea, where the students will carry out research and practical exercises on selected architecture as part of their final project. All materials produced during the project will be accessible online through an open-source platform, being developed by the Polytechnic University of Milano. The CONCRETO Guidelines, the core of sustainability, and a Massive Open Online Course (MOOC) will be codified and shared on the CONCRETO Academy platform, providing a permanent opportunity for growth and knowledge exchange.

CONCRETO Day is the final event of CONCRETO Master Your Skills, the first face-to-face activity of the annual CONCRETO Teaching & Training Programme. CONCRETO Master Your Skills will provide an overview of the history of concrete technology and its applications. Through case studies, workshops and field applications, delegates will learn about deterioration mechanisms, diagnostic techniques and repair and intervention strategies, with a particular focus on retrofit techniques.

The event will be held in English. Participation is free, but registration is required. Registration:

<https://www.colegiocaminos.es/jornadas-y-eventos-2/concreto-day-2>

Programme

9:30 - 10:00 | Greetings and Welcome

- Miguel Ángel Carrillo. Colegio de Ingenieros de Caminos, Canales y Puertos President
- José Miguel Atienza. Universidad Politécnica de Madrid. ETSICCP Director
- Elena Guijarro. Consejo Superior de los Colegios de Arquitectos de España Vicepresident



Co-funded by
the European Union

info@concreto-academy.org

Project Number 101140028

Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the European Education and Culture Executive Agency (EACEA). Neither the European Union nor EACEA can be held responsible for them.

- Javier González. Fundación Laboral de la Construcción.
Director of Training and Employment

10:00 - 10:30 | Introduction to the CONCRETO Academy
PLN Foundation, Coordinator - Elisabetta Margiotta Nervi;
Scientific Director - Irene Matteini

10:30 - 11:00 | Restoration of the Legazpi Fruit and Vegetable
Market in Madrid
Eduardo Diaz-Pavón (INTEMAC)

11:00 - 11:30 | Technical challenges – The diagnosis and
dismantling of the Francisco Silvela flyover in Madrid
Javier León (FHECOR) and Juan Jesus Alvarez (DRAGADOS)

12:00 - 12:30 | A Case Study on the Effectiveness of Inhibitors
for Comprehensive Corrosion Control
Carlos Polimón (RETINEO)

12:30 - 13:00 | Corrosion monitoring in concrete structures
Carmen Andrade (CIMNE)

13:15 - 13:30 | Closing Remarks
Miguel Ortega Cornejo, President of ACHE

Networking | Exhibition

Display of projects and technological developments in
rehabilitation and conservation of concrete works (e.g. SIKA,
CEMEX, ARESPA, IECA, AGORA, RETINEO, SOCOTEC,
HIDRODEM, FOSROC, HOLCIM).

ERASMUS+ PROJECT CONCRETO

Led by the Pier Luigi Nervi Project Foundation, CONCRETO
includes:

- 2 organisations for the conservation of modern heritage: Pier
Luigi Nervi Foundation (PLN), DOCOMOMO International
- 3 higher education institutions: Middle East Technical
University (ODTÜ METU), Politecnico di Milano (POLIMI),
Universidad Politécnica de Madrid (UPM)
- 5 professional associations: National Council of Architects,
Landscape Architects and Conservators (CNAPPC), National
Council of Engineers Foundation (FCNI), Consejo Superior de



los Colegios de Arquitectos de España (CSCAE), Colegio de Ingenieros de Caminos, Canales y Puertos (CICCP), Association of Turkish Engineers and Architects Consultants (ATCEA).

- 3 vocational training organisations: Fundación Laboral de la Construcción (FLC), Istituto per l'Istruzione Professionale dei Lavoratori Edili della Provincia di Bologna (IIPLE), Turkish Vocational Training Authority (MYK).

The technical sponsors of the project are:

- Sika, a multinational company specialising in chemicals for the construction sector
- Cogeis, a historic Italian construction company founded in 1963 in Quincinetto (Turin), which will produce the models used during CONCRETO Masterpiece
- BUILT (Buzzi Unicem Innovation Lab and Technology) Laboratories, a cement producer from Casale Monferrato, which also worked with Pier Luigi Nervi
- BlueSpine, a French consulting firm specialised in electrochemical repairs for reinforced concrete structures, who will install a mock-up showcasing the installation of a cathodic protection system for reinforced concrete at the CONCRETO Masterpiece in Ivrea
- Kerakoll, with its expertise in sustainable building and structural rehabilitation.

The technology partner is:

- Proceq: the Swiss company Screening Eagle Technologies AG, the result of the merger between Dreamlab in Singapore and Proceq in Switzerland, whose mission is to protect the built world with software, sensors and data, providing a technological platform for intelligent inspection of the built environment.

For more information: concreto-academy.org

Pier Luigi Nervi Project Foundation

pierluiginervi.org

Rue de Vrière, 9 1020 Brussels, Belgium

Cristiana Chiorino, *Communication Officer*

Contact: cristiana.chiorino@concreto-academy.org