



Innovative Materials and Techniques for the Conservation of the 20th Century Concrete-based Cultural Heritage



NEW MATERIALS FOR THE CONSERVATION OF CULTURAL HERITAGE IN CONCRETE

WEBINAR 23/24 April 2021

PROGRAM

23rd April, 2021

10:30/10:45- **“Welcome and greeting”** with Rosaria Mencarelli, the Director of the Archaeological Fine Arts and Landscape Superintendency for the provinces of Pescara and Chieti – MiC- Italy

10:45/11:00- **“Presentation of the INNOVA CONCRETE project”** by Maria Jesus Mosquera from the University of Cadiz (UCA) –Spain

11:00/11:15- **“Cultural Heritage: what we achieved and the funding opportunities in the new framework programme for research and innovation, Horizon Europe (2021-2027)”** by Isella Vicini from BeWARRANT- Belgium

11:15/11:30 - **“InnovaConcrete exploitation out of the boundaries of the research project”** by Antonio Tebar from SIKA - Spain

11:30/12:00- **“Case studies in the InnovaConcrete”**

- **“Eduardo Torroja Institute”** with Juan Queipo de Llano and Elena Frías from Instituto Eduardo Torroja de Ciencias de la Construcción (CSIC), Madrid, Spain.

- **“Warszawa Srodmiemie WKD Pavilion in situ validation activities. Products application and performance monitoring”** by David Lopez from INES Ingenieros Consultores, Spain

- **“Centennial Hall in Wroclaw: in - situ application and performance evaluation of IC products”** by Krzysztof Raszczuk and Mateusz Moczko from Wroclaw University of Science and Technology Department of Building Structures, Wroclaw - Poland

- **“Elogio del Horizonte in situ validation activities. Products application and performance monitoring”** by Lorenzo Fernández-Ordóñez from Estudio Guadiana Madrid -Spain

- **“Kaunas IX Fort Monument in situ validation activities. Products application and performance monitoring”** by David Lopez from INES Ingenieros Consultores, Spain

12:00/12:15- **“The '100 from the 20th' InnovaConcrete selection”** by Susana Landrove from Docomomo Iberico - Spain

12:15/12:30- **“Modern concrete and its evolution in the 20th century”** with Maria Teresa Blanco Valera and Maria Inés García Lodeiro from the Instituto Eduardo Torroja de Ciencias de la Construcción (CSIC)-Madrid Spain.

12:30/12:45- **“Conservation of 20th-century architecture. History and memory in 20th-century architecture”** by Claudio Varagnoli from University G. D’Annunzio Chieti- Pescara – Department of Architecture – Italy

12:45/14:30 LUNCH

14:30/14:50 - **“Condition assessment and investigation of reinforced concrete”** by Paul Gaudette, Paul Gaudette from Wiss, Janney, Elstner Associates, ICOMOS-ISC20C, United States

14:50/15:00 - **“Types and causes of deterioration in concrete heritage”** by Stefania Landi from University of Pisa, ICOMOS-ISC20C, Italy

15:00/15:15 - **“The use of modelling approaches to optimize innovative solutions for preserving historic concretes”** by Janez Perko from SKC CEN, Belgian Nuclear Research Centre - Belgium

15:15/15:30 - **“Advanced methods for the cleaning of concrete surfaces”** by Rodorigo Giorgi and Michele Baglioni from Consorzio Interuniversitario dei Sistemi a Grande Interfase (CSGI)- Florence - Italy

15:30/15:45 - **“Cementitious coatings and micro-mortars containing Halloysite nanotubes.”** by Monica Tonelli and Francesca Ridi from Consorzio Interuniversitario dei Sistemi a Grande Interfase (CSGI) in Florence - Italy

15:45/16:00 - **“Development of micro-mortars to repair concrete”** by Maria Teresa Blanco Valera, Maria Inés and García Lodeiro from the Eduardo Torroja Institute of Construction Science (CSIC) - Madrid, Spain;

16:00/16:15 - **“Multifunctional treatments for concrete combining consolidation by generation of C-S-H gel and superhydrophobic performance”** by Rafael Zarzuela Sanchez from University of Cadiz (UCA) – Spain;

16:15/16:30 - **“A consolidant hydrophobic product (TUC) with affinity to concrete structure”** by Noni Maravelakif from Technical University of Crete

16:30/16:45 - **“Bioinspired amorphous nanoparticles of polyphosphate and Ca-carbonate improve the self-healing property of cements”** with W.E.G. Müller from UMC Mainz, Germany.

16:45/17:00 - **“Smart nanostructured materials for corrosion inhibition”** by Gabriella Di Carlo from CNR-ISMN, Rome, Italy;

17:00/17:30 - Final question and answer session

24th April, 2021

10:00/10:15- **“Memory and restoration: the war memorials in the Abruzzo region”** by Aldo Giorgio Pezzi from Archaeological Fine Arts and Landscape Superintendency for the provinces of Pescara and Chieti – MiC, Italy

10:15/10:30- **“Torricella Peligna’s war memorials - two examples of concrete monuments from the 20th century: Material characterization methods”** by Sabrina Gualtieri from the CNR-ISTEC in Faenza (RA), Italy

10:30/10:45- **“Crack Monitoring activities”** by Paolo Corvaglia from RINA, Italy

10:45/11:00- **“Instruments and methodology for the on-site monitoring performances of applied products on reinforced concrete monuments”** by Piero Tiano and Cristiano Riminesi from CNR-ISPC in Florence, Italy;

11:00/ - **“ Case studies in Torricella Peligna and on-site activities in the Tower war Memorial ”** by M. Isabella Pierigè from Archaeological Fine Arts and Landscape Superintendency for the provinces of Pescara and Chieti; video and live from the site

/12:00- **“The restoration site for the Angel Statue”** by M. Isabella Pierigè and Stefano Landi from Archaeological Fine Arts and Landscape Superintendency for the provinces of Pescara and Chieti, Restorer Freelance ;Video and live from the site

12:00/12:30 - **“The plasma torch as a hydrophobic treatment for 20th-century, concrete-based monuments, presented”** by Aniello Vitulano and Gianfranco Sabbatella from IONVAC, Rome, Italy; live from the site if possible

12:30/12:45 annex Video- **“Social aspects and raising awareness”** by Stefania Melandri from BeWARRANT- Belgium

12:45/13:30 - Final question and answer session.



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REGISTRATION and INFORMATION: www.innovaconcrete.eu