

CSMS 2023 INTERNATIONAL CONCRETE CONFERENCE: SUSTAINABLE MATERIALS & STRUCTURES CONFERENCE AGENDA

08:00 – 08:30	Registration
08:30 – 09:00	Opening of the Conference Chair: Prof. Ruben Paul Borg (<i>Conference Chair - fib TG 7.8 Convenor, University of Malta</i>) Prof. Domenico Asprone (<i>Chair fib Commission 7, University of Naples Federico II</i>) Prof. Alfred Vella (<i>Rector, University of Malta</i>) Hon. Dott. Stefan Zrinzo Azzopardi (<i>Minister, Ministry of Public Works and Planning</i>)
09:00 - 09:15	Key Note Lecture 1: Concrete Sustainability Prof. Domenico Asprone (<i>fib Commission 7 Chair, University of Naples Federico II</i>)
09:15 – 09:45	Forum 1: Concrete Quality Chair: Mr. Anthony Tabone (<i>CEO Philip A. Tabone Representative (CEO Chamber of Commerce)</i>) Mr. Michael Stivala (<i>Chairman MDA</i>) Prof. Ruben Paul Borg (<i>Convener fib TG7.8 & University of Malta</i>) Perit Janice Borg (<i>Head Maritime Section, Infrastructure Malta</i>) Ms. Denise Xuereb (<i>AX Construction</i>)
09:45 – 10:00	Coffee Break
10:00 - 10:15	Key Note Lecture 2: Reinforced Concrete Structures Prof. Alex Torpiano (<i>Dean, Faculty Built Environment, University of Malta</i>)
10:15 – 11:45	Session 1: Circular Economy & Concrete Based on Waste Chair: Prof. Liberato Ferrara (<i>Politecnico di Milano</i>) Performance-related approaches to use of waste materials in concrete structures Prof. Kevin Paine (<i>University of Bath, UK</i>) Use of ceramic industrial and construction waste as aggregate for concrete Dr. Marta Roig-Flores, Lucía Reig, David Hernández-Figueirido, Vicente Alberó, Ángel M. Pitarch, Ana Piquer (<i>Universitat Jaume I, ES</i>) Plastic waste as a concrete mix component Prof. Liborio Cavaleri (<i>University of Palermo, IT</i>) The production and use of Libyan metakaolin in Concrete Mr. Ahmed M M Hamed, Prof. Ruben Paul Borg (<i>University of Malta, MT</i>) Alkali activated binding composition with phosphogypsum Prof. Danutė Vaičiukynienė, Prof. Ruben Paul Borg, Vilimantas Vaičiukynas (<i>Kaunas University of Technology, LT</i>)

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Session 1: Circular Economy & Concrete Based on Waste (Continued)

3D Printed High Concrete based on Globigerina Limestone Waste

Mr. Kenneth Camilleri, Prof. Ruben Paul Borg (*University of Malta, MT*)

Principles of circular economy in building construction

Dr. Tereza Pavlů (*Czech Technical University in Prague, CZ*)

Discussion

11:45 – 13:00

Session 2: High Performance Concrete Based on ByProducts, Geopolymers, BioMaterials, Sensor

Chair: Prof. Kevin Paine (*University of Bath UK*)

Geopolymer Concrete: Alkali Activated materials based on waste

Prof. Ruben Paul Borg (*University of Malta, MT*)

High-Volume Dosages of Lignite Fly Ash for Eco-Concrete

Katalin Kopecsko, Gergely Kolos, Zaid A.A. Khaiqani (*Budapest University of Technology & Economics, HU*)

Experimental investigation on the properties of cement mortars with the addition of recycled inert asbestos

Prof. Cristina Tedeschi (*Politecnico di Milano, IT*)

Use of recycled aggregates in concrete: opportunities for upscaling in Europe

Ing. Marco Lamperti Toraghi (*Joint Research Centre, European Commission*)

Agave Bio-Based fibres for use in Cement based materials

Ms. Ashley Calleja, Prof. Ruben Paul Borg (*University of Malta, MT*)

Recycled bio-polymer feather reinforcement for cement based materials

Ms. Elizabeth Spiteri Cornish, Prof. Ruben Paul Borg (*University of Malta, MT*)

The dynamics of Piezoelectric Micromachined Ultrasonic Transducer arrays embedded in reinforced concrete

Ing. Stephen Sammut, Prof. Edward Gatt, Prof. Ruben Paul Borg (*University of Malta, MT*)

Discussion

13:00 - 14:00

Lunch Break

14:00 – 14:30

Forum 2: Sustainability of Concrete

Perit Vincent Cassar (*Chairman, ERA & President MIHA*)

Perit David Xuereb (*MCESD & ESG Alliance*)

Prof. Rebecca Dalli Gonzi (*Kamra tal-Periti & University of Malta MT*)

Dr. Jeanette Munoz Ablea (*Kamra Tal-Periti & University of Malta MT*)

Representative (*Attard Bros Ltd*)

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14:30 – 15:45

Session 3: Materials and Structures, Historic Concrete

Chair: Prof. Danute Vaičiukynienė (*Kaunas University of Technology, LT*)

Investigations on composite mineral binders for self-compacting modified soil

Prof. Zymantas Rudzionis (*Kaunas University of Technology, LT*)

Sustainable Concrete Performance: Low Clinker Concrete Production

Dr. Nicoletta Zeminian (*Master Builders*)

An appraisal of Historic Reinforced Concrete Structures in Malta - The Naval Reservoir

Ms. Maria Muscat, Prof. Ruben Paul Borg (*University of Malta, MT*)

Nonlinear Mechanical Analysis of a Historic Breakwater: the case of St. Elmo in Malta

Prof. Ruben Paul Borg, Ing. Giovanni Cazzagon, Prof. Liberato Ferrara (*University of Malta, MT & POLIMI IT*)

The Structural Health Monitoring of a Historic Reinforced Concrete Water Tower Malta

Prof. Ruben Paul Borg, Prof. Edward Gatt, Dr. Gaetano Camarda, Prof. Liborio Cavaleri (*University of Malta, MT*)

Military Heritage: Documentary Attitudes Towards Pillboxes in Malta

Mr. Paul Caligari, Prof. Ruben Paul Borg (*University of Malta, MT*)

Discussion

15:45 -16:15

Forum 3: Development of Concrete in Malta

Chair: Prof. Conrad Thake (*University of Malta MT*)

Mr. Angelo Xuereb (*AX Group Malta*)

Prof. Robert Ghirlando (*University of Malta MT*)

Perit Mark Azzopardi (*Restoration Directorate*)

Mr. Jonathan Borg (*Superintendence of Cultural Heritage*)

16:15 -16:30

Coffee Break

16:30 – 17:30

Session 4: Materials & Structures

Chair: Prof. Liborio Cavaleri (*Università di Palermo IT*)

The advances of fib TG 6.3 on sustainability performance assessment of precast concrete structures

Prof. Albert de la Fuente (*Universitat Politècnica de Catalunya, ES*)

Building better, for longer, with less: holistic lessons learned from a lustrum long research on Ultra High Performance Concrete @Politecnico-DICA

Prof. Liberato Ferrara (*Politecnico di Milano, IT*)

The Behaviour of Plain Unconfined Concrete Under Cyclic Compression Loading

Dr. Randolph Carl Borg (*MCAST, MT*)

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Session 4: Materials & Structures (Continued)

The influence of concrete mixture compaction parameters on the quality of formed concrete surface

Prof. Mindaugas Daukšys, Ernestas Latanauskas, Svajūnas Juočiušas (*Kaunas University of Technology, LT*)

Improvement of concrete durability by water-soluble hydrophobic agents

Dr. Jakub Hodul (*Brno University of Technology, CZ*)

Sustainable Ternary Compositions for 3D Concrete Printing

Prof. Genadijs Sahmenko, Maris Sinka, Diana Bajare, Girts Bumanis, Alise Sapata, Peteris Slosbergs (*Riga Technical University, LV*)

Discussion

17:30 – 18:00

Conclusion: The Initiative for Quality Concrete - MT

Prof. Albert de la Fuente (*Vice Chair fib Commission 7*)

Prof. Domenico Asprone (*Chair Commission 7*)

Mr. Anthony Tabone (*CSMS Organising Committee*)

Prof. Ruben Paul Borg (*CSMS Organising Committee*)

18:30 - 20:30

Reception (Foyer Valletta Campus)

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