

**RILEM Conference on durability of building materials and systems in the transportation infrastructure (25 – 28 march 2025)**

*Location: Hotel Coronado, Via Francesco Borromini 10, 6850 Mendrisio*

**Tuesday, March 25, 2025**

8:00-9:00	<b>Conference Registration</b> <i>Hotel Coronado, Welcome desk, floor 2</i>  <i>Morello room: floor 2</i>
9:00-9:15	<b>Official Conference Opening,</b> Conference organizers' welcome, Christian Paglia RILEM Presentation, Nele De Belie, RILEM President
09:15-9:30	<b>Colonnetti medallists' presentation, Enrico Sassoni</b>
09:30-10:00	<b><i>Rheology Control of Cementitious Materials</i>, Gustavo Colonetti Lecture (RILEM MEDAL 2025), Dengwu Jiao</b>
10:00-10:10	<b>Special award to Karen Scrivener: video message from Martina Hirayama, Swiss State Secretary for Education, Research, and Innovation</b>
10:10-11:00	<b>Special award to Karen Scrivener</b> <b>Karen Scrivener's lecture</b>

11:00-11:30	Coffee, <i>San Gottardo room: floor 2</i>
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11:30-12:00	<b><i>Advancements on serviceability and sustainability of cement-based materials and structures</i>, Gustavo Colonetti Lecture (RILEM MEDAL 2025), Fragkoulis Kanavaris</b>
12:00 -12:20	<b><i>Sustainability in Road Mobility: Strategies and Actions by FEDRO</i>, Guido Biaggio, Keynote speaker</b>
12:20-12:40	<b><i>Advancements in Electrically Conductive Concrete Heated Pavements for Durable and Sustainable Winter Transportation Infrastructure System</i>, Halil Ceylan, Keynote speaker</b>
12:40-13:00	<b><i>Balancing Durability and Sustainability in Infrastructure Design and Maintenance</i>, Sylvia Kessler, Keynote speaker</b>

13:00-14:30	Lunch, <i>San Gottardo room: floor 2</i>
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14:30-17:45	Conference Sessions
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start - end	Title	Speaker
	<b>Morello Room, floor 2</b>	Session: New cementitious composites, Chair Nele De Belie
14:30-14:45	<i>Ultra low-carbon TRCs for sustainable constructions, ID. 165</i>	Bahman Ghiassi
14:45-15:00	<i>Aging study of mortar with biochar as a partial cement replacement, ID. 34</i>	Anna-Maria Baronenkova
15:00-15:15	<i>Towards net zero in concrete construction - the development and application of a low carbon footprint, self-healing structural mortar for concrete repair, ID. 22</i>	Marco Basaldella
15:15-15:30	<i>Advancements and Challenges in Low-Carbon LC3 Concrete: Addressing early age and long-term Performance and durability for Widespread adoption, ID. 234</i>	Beatrice Malchiodi
15:30-15:45	<i>Design of experiment-based formulations for low-carbon cements with volcanic ashes and calcined clay, ID. 48</i>	Mutai Victor Kiptoo
15:45-16:00	<i>Preliminary study on water transport properties in low-carbon cementitious materials, ID. 96</i>	Paul Thomas

	<b>Caviano Room, floor 1</b>	<b>Session: Road pavements and maintenance, Chair Aybike Öngel</b>	
14:30-14:45	<i>On the Road to Future Specifications, ID. 69</i>		Ian Lancaster
14:45-15:00	<i>Investigation of the importance of destructive factors that affect the durability of asphalt pavement, ID. 5</i>		Judita Škulcecké
15:00-15:15	<i>On the way to sustainable asphalt mixtures, ID. 90</i>		Michael Wistuba
15:15-15:30	<i>Enhancing Storage Stability in PMBs Through Strategic Bio-Oil Incorporation, ID. 54</i>		Pooriya Mohseni
15:30-15:45	<i>Anti-aging properties of bituminous binders containing a biogenic component, ID. 56</i>		Xiaohu Lu
15:45-16:00	<i>Evaluation of Marshall Properties in Asphalt Mixtures with Industrial Waste as Filler Substitution, ID. 50</i>		Waqas Rafiq
	<b>Bella Vista Room, floor 1</b>	<b>Session: Durability and Corrosion, Chair Sylvia Kessler</b>	
14:30-14:45	<i>Long tunnels maintenance: challenges and lessons learnt. The case study of the Gotthard Base Tunnel, ID. 113</i>		Federica Sandrone
14:45-15:00	<i>Application of ISO 15686 Standard for the evaluation of the Structure of Uranga-Sylvestre Begnis Subfluvial Tunnel, Argentina, ID. 89</i>		Rudy Grether
15:00-15:15	<i>Mitigation of plastic shrinkage cracking for durable concrete infrastructure, ID. 220</i>		Mateusz Wyrzykowski
15:15-15:30	<i>Chloride penetration resistance of infrastructure concrete – effect of concrete composition on durability performance of on site large scale components, ID. 128</i>		Peter Wild
15:30-15:45	<i>Tension-induced mechanical damage on passive film of carbon steel in alkaline environment, ID. 194</i>		Zheng Dong
15:45-16:00	<i>Ensuring resistance of concrete sleepers to internal sulphate attack and alkali-silica reaction, ID. 67</i>		Viacheslav Troian
	<b>Alla Piana Room, floor 1</b>	<b>Session: Bridges an structural application, Chair Thierry Sedran</b>	
14:30-14:45	<i>Reduction of CO<sub>2</sub> emissions of pedestrian and bicycle bridges through carbon prestressed concrete (CPC) decking, ID. 19</i>		Stephan Görtz
14:45-15:00	<i>Investigation and Experimentation of Thermoplastic-Coated Textile Reinforcement Shaping on Curved Surfaces, ID. 71</i>		Bedirhan Enes Kelek
15:00-15:15	<i>Performance of low-embodied CO<sub>2</sub> and high early age strength concrete full-sized slabs, ID. 53</i>		Fabian Paniagua
15:15-15:30	<i>Sustainable and Durable Bridge Caps made with BFVK-reinforcement and recycled concrete, ID. 18</i>		Kay Lengert
15:30-15:45	<i>Challenges in Structural Health Monitoring and Performance-Oriented Integration into Bridge Management, ID. 125</i>		Roberto Galli
15:45-16:00	<i>UHPFRCs under tensile impact loading, ID. 81</i>		Ezio Cadoni
16:00-16:30	<b>Coffee, San Gottardo room: floor 2</b>		
start - end	<b>Morello Room, floor 2</b>	<b>Session: New cementitious composites, Chair Beatrice Malchiodi</b>	
16:30-16:45	<i>Carbonation in concrete: from a detrimental process to a CO<sub>2</sub> sequestration opportunity, ID. 93</i>		Juan Manuel Etcheverry
16:45-17:00	<i>Machine Learning assisted Low-Carbon Cement Design: A Path to Lower CO<sub>2</sub> Emission and Enhanced Carbon Sequestration, ID. 57</i>		Bin Xi
17:00-17:15	<i>Earth stabilisation: comparison between Portland- and MgO-based cements, ID. 52</i>		Ellina Bernard
17:15-17:30	<i>Towards net-zero reinforced concrete structures: A review, ID. 184</i>		Renjie Mi
17:30-17:45	<i>Optimization of pumiche aggregate in polypropylene fibre-reinforced pervious concrete, ID. 170</i>		Clemton Sean Fronda
17:45-18:00	<i>Sensitive concretes for 3D printed structures: first physical and electromechanical characterization, ID. 200</i>		Antonella D'Alessandro
	<b>Caviano Room, floor 1</b>	<b>Session: Road pavements and maintenance, Chair Alan Carter</b>	
16:30-16:45	<i>Comprehensive characterization of lateritic gravels for road construction: correlation between geotechnical, chemical and mineralogical properties, ID. 49</i>		Zinison Giovanni Kabore
16:45-17:00	<i>Achieving net zero greenhouse gas emissions in road constructions and its impact on material flows and stocks, ID. 70</i>		Daniel Grosseegger
17:00-17:15	<i>Analysis and evaluation of maintenance measures based on structural condition measurements with the TSD, ID. 203</i>		Tim Schrödter
17:15-17:30	<i>New insights into the layer bond of traffic pavements using a 2D and 3D imaging method, ID. 12</i>		Moritz Middendorf
17:30-17:45	<i>Performance Evaluation of Construction and Demolished Waste in Stone Mastic Asphalt Mixtures, ID. 47</i>		Waqas Rafiq
17:45-18:00	<i>Test method to determine the chloride threshold of steel embedded in new-age binder systems, ID. 222</i>		Deepak Kumar Kamde

<b>Bella Vista Room, floor 1</b>		<b>Session: Durability and Corrosion, Chair Sylvia Kessler</b>
16:30-16:45	<i>Porescale Analysis – The effect of ITZ on Delayed Ettringite Formation in Different Mortars, ID. 195</i>	Abubaker Danfour
16:45-17:00	<i>Evaluating machine models for predicting the carbonation rate in alkali-activated concrete, ID. 207</i>	Brian Ding
17:00-17:15	<i>Hydration and Carbonation Resistance of High-Volume Slag Cement Mortars, ID. 227</i>	Satya Chaitanya Medepalli
17:15-17:30	<i>A numerical simulation study of diffusion potential in porous cementitious materials, ID. 129</i>	Zhidong Zhang
17:30-17:45	<i>The importance of leaching for the carbonation resistance of alkali-activated slag and calcined clay concretes, ID. 105</i>	Luis Tambara
17:45-18:00	<i>Laser-Induced Breakdown Spectroscopy for Concrete Analysis: Applications and Practical Benefits, ID. 138</i>	Tobias Völker
<b>Alla Piana Room, floor 1</b>		<b>Session: Bridges an structural application, Chair Thierry Sedran</b>
16:30-16:45	<i>Cost-Effective and Sustainable UHPC: Replacing Cement and Silica Fume with Recycled Quartz Microsand for Enhanced Packing Density and Mechanical Performance, ID. 159</i>	Nitish Kumar
16:45-17:00	<i>High- and Very-High Strength Steels under elevated temperature and high strain-rates, ID. 82</i>	Ezio Cadoni
17:00-17:15	<i>Mechanical behaviour of reinforcing steels under a wide range of strain rates, ID. 83</i>	Daniele Forni
17:15-17:30	<i>Metaconcrete behavior under high strain rate regime: microscale mechanisms to mesoscale features, ID. 95</i>	Deborah Briccola
17:30-17:45	<i>Guidelines for evaluation of existing bridges: a case in northern Italy, ID. 240</i>	Eleni Mariolopoulou
17:45-18:00	<i>Effects of admixtures on cement-slag concrete exposed to elevated temperatures, ID. 38</i>	Marcin Sundin

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*Location: Hotel Coronado, Via Francesco Borromini 10, 6850 Mendrisio*

**Wednesday, March 26, 2025**

8:00-9:00	<b>Conference Registration</b> <i>Hotel Coronado, Welcome desk, floor 2</i>
	<i>Morello room: floor 2</i>
9:00-9:15	<b>Tribute to Giovanni Lombardi, Alberto Vanni</b>
9:15-9:30	<b>Presentation of RILEM and the RILEM Youth Council, Nele De Belie, RILEM President and Angela Tawiah, RILEM Youth Council representant</b>
9:30-9:35	<b>RILEM Technical committees' presentations, Enrico Sassoni</b>
9:35-10:05	<b>Outputs of the TC 290-IMC: Durability of inorganic matrix composites used for strengthening of masonry constructions, Antonietta Aiello</b>
10:05-10:35	<b>Outputs of the TC 277-LHS: Specifications for testing and evaluation of lime-based repair materials for historic structures, Ioanna Papayanni</b>
10:35-11:00	<b>Augmented infrastructure condition diagnosis – from bridges to cathedrals, Ueli Angst and Robert Flatt, Keynote speakers</b>
11:00-11:30	<b>Coffee, San Gottardo room: floor 2</b>

11:30-11:50	<b>Lessons from the past: can two-millenia old technology inspire modern cementitious systems?, Michel Di Tommaso, Keynote speaker</b>	
11:50	<i>Morello room: floor 2</i>	<i>Bella Vista room, floor 1</i>
11:50-12:10	<b>Sustainable pavement rehabilitation, Alan Carter, Keynote speaker</b>	<b>Special Session Durability of Heritage buildings</b>

**12:15-13:00 Conference Sessions**

	Title	Speaker
start - end	<b>Bella Vista Room, floor 1</b>	<b>Special session: Durability of Heritage buildings, Chair Enrico Sassoni</b>
11:50-12:05	<i>Impact of Saline Exposure on the Bond Behavior of TRM Composites: Insights from Single-Lap Shear Tests, ID. 28</i>	Nima Azimi Resketi
12:05-12:20	<i>Durability and Degradation of Synthetic Polymers on Architectural Monuments - Examples from Brandenburg / Germany, ID. 124</i>	Steffen Laue
12:20-12:35	<i>The magnesium aluminosilicate hydrates: a key for durability in ancient concrete, ID. 136</i>	Valeria Razzante
12:35-12:50	<i>Unlocking the Secrets of Low-Clinker Binders: Lessons from Historic Durability for Modern Solutions, ID. 64</i>	Fabrizio Moro
start - end	<b>Morello Room, floor 2</b>	<b>Session: New cementitious composites, Chair Ellina Bernard</b>
12:15-12:30	<i>Influence of additives on chemo-mechanical properties of magnesium silicate hydrates, ID. 78</i>	Charlotte Dewitte
12:30-12:45	<i>Population balance modelling of the alkaline dissolution of metakaolinite, ID. 79</i>	Luca Valentini
12:45-13:00	<i>Microstructure and transport properties of magnesia (alumino-)silicate cement mortars, ID. 51</i>	Marcus Yio
	<b>Caviano Room, floor 1</b>	<b>Session: Durability and Corrosion, Chair Federica Lollini</b>
12:15-12:30	<i>Impact of Reduced Sulfur Species on Steel Corrosion in GGBFS-Containing Cements, ID. 112</i>	Ali Nikoonasab
12:30-12:45	<i>Corrosion assessment of eco-friendly foam concrete with slag and fly ash for structural applications, ID. 106</i>	Arvind Vishvakarma
12:45-13:00	<i>Corrosion behavior of steel in LC3 with low-grade marine clay during the induction period, ID. 143</i>	Yuchen Hu

	<b>Alla Piana Room, floor 1</b>	<b>Session: Road pavements and maintenance, Chair Ian Lancaster</b>	
12:15-12:30	<i>Data Compression in Large-Scale FBG Sensor Networks for Health Monitoring Applications, ID. 192</i>		Seyed Ali Golmohammadi Tavalaei
12:30-12:45	<i>Circularity and use of alternative raw materials in pavement concrete – research &amp; pilot projects in Belgium, ID. 6</i>		Elia Boonen
12:45-13:00	<i>Rheological analysis: a powerful tool for the characterization of bituminous compound in the production of waterproofing membranes, ID. 17</i>		Ines Antunes

13:00-14:30	<b>Lunch, San Gottardo room: floor 2</b>		
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14:30-17:45	<b>Conference Sessions</b>		
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	<b>Title</b>		<b>Speaker</b>
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start - end	<b>Bella Vista Room, floor 1</b>	<b>Special session: Durability of Heritage buildings, Chair Marta Caroselli</b>	
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14:30-14:45	<i>The role of built heritage in the decarbonization roadway: Air lime mortars, ID. 40</i>		Guilherme da Silva Munhoz
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14:45-15:00	<i>Evaluating the Self-Healing Mechanism in Artificial Stone for Restoration Applications, ID. 41</i>		Kesikidou Foteini
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15:00-15:15	<i>Sustainable Hydraulic Lime Mortars with the incorporation of agricultural wastes for the Conservation of Cultural Heritage, ID. 86</i>		Maria Antonietta Zicarelli
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15:15-15:30	<i>Laboratory investigation for compatible restoration of the antiquities at the Venizelos Metro Station in Thessaloniki after their removal, ID. 42</i>		Maria Stefanidou
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15:30-15:45	<i>Durability of NHL based green labeled ready mixed plasters. A probabilistic approach, ID. 182</i>		Maria Ceciclia Carangi
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15:45-16:00	<i>Microstructure of cement mortar and weathered glass in Dalle de Verre, ID. 130</i>		Christophe Gosselin
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start - end	<b>Morello Room, floor 2</b>	<b>Session: New cementitious composites, Chair Ellina Bernard</b>	
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14:30-14:45	<i>Dynamic-mechanical analysis of polymer-modified cement pastes for long-term mechanical properties prediction, ID. 13</i>		Luise Göbel
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14:45-15:00	<i>Optimization of alkali-activated regolith simulants for lunar construction by 3D printing, ID. 46</i>		Anas Driouich
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15:00-15:15	<i>Influence of the calcination method on the transformations and the reactivity of calcined low-kaolinitic clays, ID. 99</i>		Jonathan Sittner
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15:15-15:30	<i>Evolution of porosity of MgO-based cements studied with <sup>1</sup>H NMR, ID. 122</i>		Siham Mouhtadi
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15:30-15:45	<i>Na-phosphate effect on workability of MgO-based cement and clay systems, ID. 72</i>		Raphael Kuhn
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15:45-16:00	<i>Carbon-Embedded Municipal Solid Waste Incrementation Fly-Ashes Use as Cement Replacement on Mortar, ID. 43</i>		Elifsu Balci
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	<b>Caviano Room, floor 1</b>	<b>Session: Durability and Corrosion, Chair Federica Lollini</b>	
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14:30-14:45	<i>Measuring half-cell potentials without physical contact to the concrete surface, ID. 77</i>		Ueli Angst
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14:45-15:00	<i>Detecting corrosion non-destructively at the structurally critical location of cantilever retaining walls, ID. 76</i>		Patrick Pfändler
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15:00-15:15	<i>Monitoring Chloride-Induced Corrosion in HYSD 500 Grade Steel and Epoxy-Coated Steel Bars Using the Electro-Mechanical Impedance Technique, ID. 87</i>		Tarun Morwal
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15:15-15:30	<i>Corrosion rate measurement of steel in concrete, ID. 137</i>		Bernhard Elsener
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15:30-15:45	<i>Corrosion attack at a reinforced concrete ceiling in a parking garage, ID. 209</i>		Carolina Boschmann Käthler
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15:45-16:00	<i>Effect of activator chemistry on the electrical behavior of GPC to assess chloride resistance, ID. 66</i>		Md Ibrahim Mostazid
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	<b>Alla Piana Room, floor 1</b>	<b>Session: Diagnostic and monitoring, Chair Kei-ichi Imamoto</b>	
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14:30-14:45	<i>Diagnostics and quantification of cracking patterns on the surface of cement composites, ID. 243</i>		Maciej Szlag
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14:45-15:00	<i>Opportunities for site complementarity of the Oxygen Permeability Index test and Torrent air Permeability test, ID. 164</i>		Hans Beushausen
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15:00-15:15	<i>Real Cases of Durability and Service Life Assessment of Concrete Road Infrastructure by Site NDT of Air-Permeability (and Cover Thickness), ID. 11</i>		Roberto Torrent
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15:15-15:30	<i>Concrete curing performance assesment based on gas permeability testing in the Lab and on site, ID. 65</i>		Alfred Strauss
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15:30-15:45	<i>Evolution of air permeability of concrete with the expansion due to Internal Swelling Reaction, ID. 84</i>		Hugo Cagnon
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15:45-16:00	<i>Reinforcement detection in concrete using infrared thermography, ID. 183</i>		Shaunak Chatterjee
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16:00-16:30	<b>Coffee, San Gottardo room: floor 2</b>		
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start - end	<b>Bella Vista Room, floor 1</b>	<b>Special session: Durability of Heritage buildings, Chair Francesca Piqué</b>	
16:30-16:45	<i>Ensuring durability in the re-adhesion of delaminated historic plasters - Testing adhesion: a critical review, ID. 30</i>		Chiara Pasian
16:45-17:00	<i>Hydrophobic Treatments for Historic Masonries: Experimental Assessment Through Accelerated Aging Tests, ID. 247</i>		Elisa Franzoni
17:00-17:15	<i>The developemet of a consolidation treatment for the archaeological site of Al Faw - Saudi Arabia, ID. 251</i>		Marta Caroselli
17:15-17:30	<i>15 years of ammonium phosphate (DAP) for heritage conservation: A review of the treatment performance in laboratory studies and field applications, ID. 246</i>		Enrico Sassoni
17:30-17:45	<i>Carbonation of lime-based mortars, a parameter of whole life-cycle carbon (WLC) assessment for conservation practices, ID. 173</i>		Alexandros Liapis
	<b>Morello Room, floor 1</b>	<b>Session: New cementitious composites, Chair Ellina Bernard</b>	
16:30-16:45	<i>Enhancing Infrastructure Durability and Sustainability through recycled tire steel fiber-reinforces concrete, ID. 4</i>		Asad Zia
16:45-17:00	<i>Streamlining multiple heterogenous renewable supplies to single homogenous supply and value streams for cementitious binders and admixtures, ID. 60</i>		Wolfram Schmidt
17:00-17:15	<i>Enhancing returned fresh concrete reusability through digital Monitoring, ID. 205</i>		Emeso Ojo
17:15-17:30	<i>Effect of hydroxypropyl methylcellulose on hydration kinetics and pore structure of cement paste, ID. 126</i>		K. E. V. Sai Varma
17:30-17:45	<i>Shotcrete: The influence of the Spraying Process on the Air content, ID. 253</i>		Augusto Cezar Maciel Soares
17:45-18:00	<i>Effect of fly ash properties on chloride penetration resistance of concrete, ID. 142</i>		Kai Tandon
	<b>Caviano Room, floor 1</b>	<b>Session: Durability and Corrosion, Chair Federica Lollini</b>	
16:30-16:45	<i>Electrode configuration influence on EIS test for steel/mortar - A ghost time-constant, ID. 102</i>		Zhangmin Zhang
16:45-17:00	<i>Mortars with novel silver-incorporated superabsorbent polymers developed to reduce chloride induced corrosion, ID. 180</i>		Laurena De Brabandere
17:00-17:15	<i>Chloride diffusion kinetics within pure calcium silicate hydrate, ID. 132</i>		Lianyao Xiong
17:15-17:30	<i>Case studies: identifying, monitoring and mitigating Microbiologically Influenced Corrosion (MIC) in infrastructure, ID. 8</i>		Rob Elzinga
17:30-17:45	<i>Comparative Evaluation of Corrosion Resistance of Steel Passive Films Formed in LC3 and OPC Pore Solutions, ID. 121</i>		Qiang You
	<b>Alla Piana Room, floor 1</b>	<b>Session: Diagnostic and monitoring, Chair Kei-ichi Imamoto</b>	
16:30-16:45	<i>Influence of Cement Type on the Effectiveness of Autogenous Self-healing of Cracked Concrete, ID. 21</i>		Daniel Lahmann
16:45-17:00	<i>Assessing corrosion in concrete reinforcement using Infrared Thermography, ID. 55</i>		Shaunak Chatterjee
17:00-17:15	<i>Towards adaptive and transparent decision-making strategy in bridge management: a metrics to establish bridge value at a network-level, ID. 171</i>		Daniele Duzzi
17:15-17:30	<i>Ductility of UHPFRC-RC composite structures , ID. 181</i>		Deborah Briccola
17:30-17:45	<i>Non-linear analysis of Lightweight High-Performance Concrete Beams, ID. 238</i>		Jens Peder Ulfkjaer
19:30-22:00	<b>Conference Gala Dinner, Hotel Coronado, San Gottardo room</b>		

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**Thursday, March 27, 2025**

8:00-9:00	<b>Conference Registration</b> <i>Hotel Coronado, Welcome desk, floor 2</i> <i>Morello room: floor 2</i>
9:00-9:20	<b>Characteristics of concretes during their early ages affecting durability of Infrastructures</b> , Serina NG, Keynote speaker
9:20-9:40	<b>The role of durability on mitigation of CO<sub>2</sub> emissions of construction</b> , John Vanderley, Keynote speaker
9:40-10:00	<b>Sustainable Building Materials and Systems in Transportation Infrastructure</b> , Tanja Zimmerman, Keynote speaker
10:00-10:20	<b>Balancing Durability and Adaptability: Ensuring Long-Life Infrastructure in the Face of Evolving Market Demands and Unexpected Challenges</b> , Roberto Schuerch, Keynote speaker
10:20-10:30	<b>Presentation of GLOBE, The Global Consensus on Sustainability in the Built Environment</b> , Wolfram Schmidt

10:30-11:00	Coffee, San Gottardo room: floor 2
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11:00-11:20	<b>Appreciation of changeability. The "transformation value" of built heritage</b> , Silke Langenberg, Keynote speaker
11:20-11:40	<b>The multiple benefits of a good material diet</b> , Guillaume Habert, Keynote speaker

11:45-13:00	Conference Sessions
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	Title	Speaker
start - end	<b>Morello Room, floor 2</b>	<b>Session: New cementitious composites, Chair Serina NG</b>
11:45-12:00	<i>Design of Eco-efficient concrete for digital fabrication, ID. 7</i>	Mariana Fonseca
12:00-12:15	<i>Eco-friendly modification of earthen materials with a novel alkali-activated material: potential application towards water-resistance, ID. 133</i>	Dalia Bednarska
12:15-12:30	<i>Effects of Polypropylene Waste and Functionalized Polypropylene Waste on the Properties of Sand Concrete and Lightweight Concrete Made with Sintered Fly Ash, ID. 177</i>	Dishan Markandu
12:30-12:45	<i>Mechanical Properties of Sand Concrete with Varying Levels of Fine Coal Mine Waste Replacement, ID. 80</i>	Hamed Taghavizadeh
12:45-13:00	<i>The effect of sample preparation and storage on phase preservation of LC3 hydrated paste, ID. 244</i>	Paulo Ricardo de Matos
	<b>Caviano Room, floor 1</b>	<b>Session: Service life design, Chair Roberto Torrent</b>
11:45-12:00	<i>Condition assessment of concrete structures of movable weirs after 90 years service lifetime, ID. 20</i>	Marija Nedeljković
12:00-12:15	<i>Implementation EN1992-1-1:2028 Performance Based Durability Concept for Concrete – A Swiss Benchmark Study, ID. 252</i>	Stefanie von Greve-Dierfeld
12:15-12:30	<i>Constructing infrastructure for a million- year service life: Repositories for radioactive waste, ID. 117</i>	John Provis
12:30-12:45	<i>The Impact of Crystalline Technology on the Service Life and Durability of Concrete Structures, ID. 206</i>	Martin Mottl
12:45-13:00	<i>Service life of RAP (Reclaimed Asphalt Pavement) concrete exposed to carbonation, ID. 185</i>	Federica Lollini

	<b>Alla Piana Room, floor 1</b>	<b>Session: Diagnostics, monitoring and prevention Chair Fabrizio Moro</b>	
11:45-12:00	<i>Automated Bridge Inspection: Integrating UAVs, AI, and a Flying Robot for Corrosion assessment, ID. 58</i>		Patrick Pfändler
12:00-12:15	<i>Characterising the steel-concrete interface and the microstructure of corrosion products using FIB-SEM nanotomography, ID. 75</i>		Emanuele Rossi
12:15-12:30	<i>Evaluation of retaining wall anchoring using GPR and Ultrasonic Echo, ID. 186</i>		Elmar Strobach
12:30-12:45	<i>Life cycle assessment of repair measures for chloride contaminated reinforced concrete structures, ID. 230</i>		Paul Steinmetz
12:45-13:00	<i>Non-destructive corrosion measurement on fair-faced concrete structures and repairs, ID. 167</i>		Anthea Putz
	<b>Bella Vista Room, floor 1</b>	<b>Special session: Sustainable solution, Chair Ena Lloret Fritschi</b>	
11:45-12:00	<i>Opening by Ena Lloret Fritschi</i>		
12:00-12:15	<i>Robust and eco-friendly clay dispersant for poured earth construction, ID. 198</i>		Yi Du
12:15-12:30	<i>Towards Net-zero and Carbon-negative Transformations in Mineral-based Materials, ID. 94</i>		Nele De Belie
12:30-12:45	<i>Influence of silt mineralogy on deflocculation of kaolinite-rich paste, ID. 197</i>		Daria Ardant
12:45-13:00	<i>Capillary water transport in bio-based green composites: experimental characterization and numerical simulation, ID. 119</i>		Antonio Caggiano
13:00-14:30	<b>Lunch, San Gottardo room: floor 2</b>		

13:45-14:30	<b>Poster session, Veranda room, floor 2 (near San Gottardo room)</b>		
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14:30-18:00	<b>Conference Sessions</b>		
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start - end	Title	Speaker
	<b>Morello Room, floor 1</b>	<b>Session: New cementitious composites, Chair Serina NG</b>
14:30-14:45	<i>Microstructure and durability of sustainable concrete incorporating recycled sand and Limestone Calcined Clay Cement, ID. 98</i>	Lucia Ferrari
14:45-15:00	<i>Alternative SCMs for use in splash and spray expositions, ID. 139</i>	Andreas Appel
15:00-15:15	<i>Influence of aging on Mechanical, Thermal, and Physical Properties of Concrete with recycled Polystyrene Granules, ID. 149</i>	Juraj Potočár
15:15-15:30	<i>Less potable water for concrete, ID. 14</i>	Narayana Brioschi
15:30-15:45	<i>Sustainability and impact assessment of TiO<sub>2</sub> mortar for transforming an urban tunnel into a self-cleaning and air-purifying transportation infrastructure: a case study, ID. 144</i>	Anibal Maury-Ramírez
15:45-16:00	<i>Gotthard railway base tunnel: concrete Technology and durability challenges, ID. 250</i>	Roberto Torrent
	<b>Caviano Room, floor 1</b>	<b>Session: Service life design, Chair Roberto Torrent</b>
14:30-14:45	<i>Impact of Component Service Life Uncertainty on the Embodied Carbon Emissions of EuroTube Infrastructure, ID. 178</i>	Jianxiang Ma
14:45-15:00	<i>Meta-Learning for Adaptive Prediction of Compressive Strength in Alkali-Activated Concrete, ID. 134</i>	Ghezal Ahmad Jan Zia
15:00-15:15	<i>Improving the performance of concrete constructions by use of fibers: experimental and life-cycle investigations, ID. 199</i>	Antonella D'Alessandro
15:15-15:30	<i>Life cycle assessment of the end-of-life stage of reinforced concrete structures, ID. 231</i>	Andrea Kustermann
15:30-15:45	<i>Corrosion risk assessment of low-carbon concretes under varying carbonation exposure conditions, ID. 202</i>	Ludovico Mascarin
	<b>Alla Piana Room, floor 1</b>	<b>Session: Diagnostics, Prevention, Mitigation of deterioration, Chair Fabrizio Moro</b>
14:30-14:45	<i>Interrelation between different durability indexes of concrete made with various types of cement, ID. 116</i>	Semion Zhutovsky
14:45-15:00	<i>Understanding Carbonation in Cementitious Materials: A Data-Driven Approach, ID. 100</i>	Tsz Chun Chan
15:00-15:15	<i>Understanding the influencing parameters for chloride transport and their relationship with electrical resistivity in different low-carbon mortar systems, ID. 123</i>	Priyanka Beta
15:15-15:30	<i>Corrosion Inhibitors: Efficiency and Effects on the Properties on Cementitious Materials, ID. 175</i>	Hamilton Soares
15:30-15:45	<i>ML-driven optimization of corrosion inhibitor mixtures with an automated platform, ID. 147</i>	Ahmad Rashid Hazem
15:45-16:00	<i>Insights from a Deteriorated Connecticut Foundation Containing Pyrrhotite-Bearing Aggregates to Improve Structural Durability, ID. 63</i>	Ashley Carey

start - end	<b>Bella Vista Room, floor 1</b>	<b>Special session: Sustainable solution, Chair Stefano Zerbi</b>	
14:30-14:45	<i>Biogenic carbon storage calculation method: are we solving the right problem?, ID. 168</i>		Guillaume Habert
14:45 15:00	<i>Integrating Carbon Sink and Recycled Materials into Modular Façade Systems, ID. 153</i>		Valentina Beatini
15:00-15:15	<i>Thermal Energy Storage Characterization of Green Wooden Cementitious Composites Enhanced with Phase Change Materials, ID. 120</i>		Antonio Caggiano
15:15-15:30	<i>Effect of cellulose microfibers on rheological properties and printability of 3D printable cement-based composites, ID. 107</i>		Gonzalo Barluenga
15:30-15:45	<i>earth-to-earth: Ultra-thin 3D-printed clay formwork for in-situ earth-casting, ID. 242</i>		David Jenny
15:45-16:00	<i>Closing by Stefano Zerbi</i>		

16:00-16:30	<b>Coffee, San Gottardo room: floor 2</b>		
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start - end	<i>Institute of Materials and Constructions, SUPSI, DACD Flora Ruchat-Roncati 15, 6850 Mendrisio (5 minutes walk from Coronado Hotel)</i>		
16:45-18:00	Laboratory tour: materials, quality control and durability tests.		