

Monday June 21

*All times are in Lyon Time - (6 Hours EST)

8:40-9:00 am (*Lyon time) **Welcoming Message by A. Si Larbi and H. Nassif**

Session 1: Ferrocement: History and Progress

9:00 - 9:40 Keynote	M. Chiorino and C. Chiorino	Art and Science of Building in Concrete: The reinvention of Ferrocement by Pier Luigi Nervi
9:40 - 10:00	A.E. Naaman	Ferrocement: a Historical Perspective
10:00 - 10:20	P. Nedwell	Ferrocement: an Appropriate Material for University Project Work
10:20 - 10:30	Questions to speakers	
10:30 - 10:40	Break	

Session 2 : TRC : Mechanical Performance

10:40 - 11:20 Keynote	B. Mobasher, C. Pleesudjai & Y. Yao	Hierarchical Modeling of Textile Reinforced Concrete Structural Systems
11:20 - 11:40	N. Douk, X.H. Vu, and A. Si Larbi	Numerical Modeling of Stress and Strain Evolution of RC Beams Reinforced by TRC Subjected to Thermomechanical Loading in Case of Fire
11:40 - 12:00	I. Karakasis, C. Papanicolaou, and T. Triantafillou	Durability of Textile Reinforced Mortars Under Harsh Environments
12:00 - 12:10	Questions to speakers	
12:10 - 13:00	Break	

Session 3 : Ferrocement : Recent Applications

13:00 - 13:40 Keynote	G. Penelis, B. Martin, P.Winslow, and K. Paschalidis	The Ferrocement Canopy of the New Athens Opera House
13:40 - 14:00	M. Milinkovic	Sturdy, Durable, Fast-to-Build and Low-Cost Ferrocement Housing
14:00 - 14:20	M. Milinkovic	Sustainable and Flexible System for Construction with Ferrocement
14:20 - 14:30	Questions to speakers	
14:30 - 14:40	Break	

Session 4 : Modeling Ferrocement and TRC

14:40 - 15:20 Keynote	J.E. Bolander	Computational Modelling of Ferrocement for Structural Applications
15:20 - 15:40	H. Spartali, R. Chudoba, S. Rastegarian, and N. Will	Moment-Curvature Model for a General Flexural Assessment of Carbon-Concrete Beams
15:40 - 16:00	P. Kapsalis, M. El Kadi, T. Triantafillou, D. Van Hemelrijck, and T. Tysmans	Numerical Modelling of the Flexural Capacity of Heated Textile Reinforced Concrete
16:00 - 16:20	E. Tsangouri, E. Hardy, A. Van Driessche, A. Si Larbi, D. Aggelis	Acoustic emission monitoring of fracture of trc curved structural plates
16:20 - 16:40	C. Signorini, V. Volpini, A. Nobili	Long-Term performance of natural fabrics in inorganic matrix thin composite systems
16:40 - 16:50	Questions to speakers	
16:50	Break for the day	

Tuesday June 22

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Session 5 : Rehabilitation, Strengthening, Optimization

9:00 - 9:40 Keynote	M.C. Rampini, G. Zani, M. Colombo and M. Di Prisco	FRCM-Retrofitting of Steel Fiber-Reinforced Concrete Shallow Beams
9:40 - 10:00	P. Hamelin, Z. Mesticou, N. Algourdin, G. Cai and A. Si Larbi	Design Method for Strengthening Steel-Concrete Beams with Textile Reinforced Cement
10:00 - 10:20	A. de Coster, M. Henne- mann, L. De Laet, and T. Tysmans	Modular Shell Structures in Textile Reinforced Concrete (TRC): a Structural Feasibility Study
10:20 - 10:30	Questions to speakers	
10:30 - 10:40	Break	

Session 6 : Ferrocement : Mechanical Behavior and Properties

10:40 - 11:00	A. Abu-obeidah, W. Nasreddine, H. Nassif, and W. Meng	Early Age Performance of Fiber Reinforced Ferrocement and UHPC in Flexural Repair of Concrete Beams
11:00 - 11:20	A. Abu-obeidah, D. Ortiz and H. Nassif	Early Age Bond Characteristics of Ferrocement-Concrete Interface under Thermal Curing
11:20 - 11:40	S. Rajkumar and D. Gopal	Experimental Investigation on Mechanical Properties of Ferrocement with Nano Silica Synthesized from Zeamays
11:40 - 12:00	B. Leporace Guimil, A. Conforti, G. Plizzari, P.Serna Ros,	Effect of Fiber Orientation on the Behavior of RC Beams in Vibrated and Self-Compacting Concrete
12:00 - 12:10	Questions to speakers	
12:10 - 13:00	Break	

Session 7 : Carbon TRC in Structural Applications

13:00 - 13:20	R. Mansur De Castro Silva and F. De Andrade Silva	Mechanical Behavior of Carbon Textile Reinforced Concrete Beams
13:20 - 13:40	K. Goliath, D. Cordoso and F. De Andrade Silva	Flexural Creep Behavior of I-Sections Carbon TRC Beams
13:40 - 14:00	D. Schlueter, S. Uhlemann, and M. Curbach	Multifunctional Carbon Concrete Slabs
14:00 - 14:20	M. Kimm, M. Sodagar, V. Overhage & T. Gries	Recycled Carbon Fibers with Improved Surface Characteristics as Reinforcing Material for Fiber Concrete
14:20 - 14:40	M. Tsegaye, M. El Kadi, T. Adugna, D. Van Hemerlijck, and T. Tysmans	Mechanical Durability and Performance of Cement Composites Reinforced with Aligned Enset Fibers
14:40 - 15:00	Questions to speakers	
15:00 - 15:20	Break	

Session 8 : Examples of Failures and Repair

15:20 - 15:40 Keynote	S.P. Shah	Ferrocement: a Personal Perspective
15:40 - 16:00	S.N. Bonifacio	Construction Failure and Repair of Ferrocement Tanks Used in Waste-Water Treatment Plants
16:00 - 16:20	E. Tsangouri, D. Aggelis, and D. Linn Iii	Revealing the Mixed Mode Failure Under Pull-Out of Masonry Retrofitted by Textile Reinforced Mortar (TRM)
16:20 - 16:40	M. Lavi, L. Nahum, A. Peled	Development of non-regular shaped lightweight structural concrete elements (beams) reinforced with carbon fabrics
16:40 - 17:00	P. Saba, T. Honorio, M.O. Ateeq, and F. Bonboudjema	Glass Fiber Reinforced Mortars: Crack Initiation and Propagation Study
17:00 - 17:10	Questions to speakers	
17:10	Break for the day	

Wednesday June 23

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Session 9 : Studies on TRC		
9:00 - 9:20	M. El Kadi, D. Hemelrijck, H. Rahier, and T. Tysmans	Influence of Discrete Spacers and Anchor Length in Long TRC Elements
9:20 - 9:40	Z. Djamai, A. Si Larbi, and F. Salvatore	A Modified Textile Reinforced Concrete with Phase Change Material
9:40 - 10:00	N. Ospitia, E. Tsangouri, J. Stiens, A. Pourkazemi and D. Aggelis	Elastic and Electromagnetic Wave Monitoring of Early Age TRC
10:00 - 10:20	N. Algourdin, Z. Mesticou and A. Si Larbi	Effect of Surface Treatments on Tensile Strength of Carbon and Basalt Fi- bers for TRC Applications
10:20 - 10:40	G. Cai, A. Si larbi, A. Ono, K. Ishibashi	An improved TRC: Preliminary study of tensile properties
10:40- 10:50	Questions to speakers	
10:50 - 11:00	Break	
Session 10 : Summary and Closure		
11:00 - 11:40	Si Larbi and H. Nassif: Summary, Thanks and Closure by the Chair A.E. Naaman : Announcement Ferro-14 and IFS New President	
11:40	Au revoir	