

RILEM International workshop on performance-based specification and control of concrete durability

Zagreb, 11 - 13 June 2014

DAY 1 - 11 JUNE 2014		
08:00	08:30	Registration
08:30	09:00	Opening
PLENARY SESSION AT FACULTY OF CIVIL ENGINEERING, Fra Andrije Kačića-Miošića 26		
09:00	09:30	<u>Karen Scrivener</u> Future Cements and performance testing
09:30	09:50	<u>Hans Beushausen</u> Principles of the performance-based approach for concrete durability
09:50	10:10	<u>Lars Olof Nilsson</u> Durability of reinforced concrete structures and penetrability
10:10	10:30	<u>Dubravka Bjegović</u> Test methods for concrete penetrability
10:30	11:10	Coffee break / laboratory visit
PLENARY SESSION AT FACULTY OF CIVIL ENGINEERING, Fra Andrije Kačića-Miošića 26		
11:10	11:30	<u>Doug Hooton</u> Using performance-based specifications to improve achievement of durable structures
11:30	11:50	<u>Luis Fernandez Luco</u> Application Test of RILEM TC PSC in Venlo
11:50	12:10	<u>Andre Valente Monteiro</u> Compliance evaluation of concrete cover depth
TRANSPORT TO HOTEL PANORAMA, Trg Krešimira Čosića 9		
12:30	13:30	Lunch break at Hotel Panorama
Parallel session	ROOM KAPTOL I Novel cements	ROOM KAPTOL II Test methods
13:30	13:45	Chemical resistance of novel hybrid cement in various aggressive solutions <i>Janotka, I. (Slovakia)</i>
13:45	14:00	Carbonation resistance: Accelerated determination and limiting values based on Swiss standard method <i>Moro, F. (Switzerland)</i>
14:00	14:15	Novel hybrid cement based on different mechanisms of setting and hardening <i>Strigáč, J. (Slovakia)</i>
14:15	14:30	Bridge damage identification from measured natural frequencies <i>Mekjavić, I. (Croatia)</i>
14:30	14:45	The influence of partial cement replacement by fly ash and silica fume on the hydro-abrasive resistance of concrete <i>Ristić, N. (Serbia)</i>
14:45	15:00	Use of combined durability parameters for different exposure conditions <i>Santhanam, M. (India)</i>
15:00	15:15	Durability of new environmental-friendly concrete without portland cement <i>Ogino, M. (Japan)</i>
15:15	15:30	Threshold pore radius of concrete obtained with two novel methods <i>Sakai, Y. (Japan)</i>
15:30	15:45	Cementitious materials with low additions of waste GRP dust: Effect on fresh and hardened properties <i>Moriconi, G. (Italy)</i>
15:45	16:00	Importance of water behaviour on chloride ion ingress in cover concrete - A case study <i>Islam, Md.S. (Bangladesh)</i>
16:00	16:15	Performance-based vs. prescriptive concepts for the Carbonation process in concretes made from cements with SCM <i>Strauss, A. (Austria)</i>
16:15	16:30	Quality control of concrete structures using IR thermography <i>Milovanovic, B. (Croatia)</i>
16:30	16:45	Comparison of reactivity of cementitious additions on properties of micro concrete <i>Lanez, M. (Algeria)</i>
16:45	17:00	Non-destructive testing of accelerated corrosion of reinforced mortar <i>Hamadache, M. (Algeria)</i>
15:30	15:50	Coffee break
Parallel session	ROOM KAPTOL I Chloride ingress and durability properties	ROOM KAPTOL II Admixtures
15:50	16:05	Chloride penetration after field exposure compared with estimates from service life prediction models <i>Aldred, J. (Australia)</i>
16:05	16:20	Effect of chemical admixtures on water penetration of concrete <i>Hassani, M. (Australia)</i>
16:20	16:35	Electrical resistivity testing for as-built concrete performance assessment of chloride penetration resistance <i>Peelen, W. (The Netherlands)</i>
16:35	16:50	Surface impregnated concrete: A comparative study <i>Ukrainczyk, N. (Croatia)</i>
16:50	17:05	The influence of frost attack on chloride transport in concrete <i>Ferreira, M. (Finland)</i>
17:05	17:20	Improving durability of reinforced concrete structures using migrating corrosion inhibitors <i>Bavarian (USA)</i>
17:20	17:35	The Influence of increased levels of limestone mineral addition used in combination with cement kiln dust on chloride ion penetration <i>Benn, T. (Australia)</i>
17:35	17:50	Prediction method for degree of rebar corrosion in reinforced concrete by thermography <i>Imai, T. (Japan)</i>
17:50	18:05	Performance evaluation of galvanic anodes through laboratory testing and on-site monitoring <i>Dodds, W. (UK)</i>
18:05	18:20	Durability design of concrete structures with corrosion resistant reinforcement <i>Lollini, F. (Italy)</i>
18:20	18:35	Performance-based correlations between different concrete properties <i>Selander, A. (Sweden)</i>
18:35	18:50	Effects of material characteristics on ready-mixed concrete and implementation of quality control system <i>Shekarchizadeh, M. (Iran)</i>
18:50	19:05	Durability properties of recycled aggregate concrete <i>Banjad Pečur, I. (Croatia)</i>
19:05	19:20	Influence of cementitious addition on the saturation point of superplasticizer <i>Lanez, M. (Algeria)</i>
SOCIAL PROGRAMME		
19:30	Organised transport from Hotel Panorama	
20:00	Welcoming reception, ZAGREB EYE, Trg Josipa Bana Jelačića	

DAY 2 - 12 JUNE 2014

HOTEL PANORAMA, Trg Krešimira Čosića 9

PLENARY SESSION - ROOM KAPTOL I

08:30	09:00	Pierre-Claude Aitchin <i>The sky's the limit</i>	
09:00	09:20	Mark Alexander <i>Examples of performance-based approaches for concrete durability in South Africa</i>	
09:20	09:40	Carmen Andrade <i>Performance specifications and tests to verify service life</i>	
09:40	10:00	Roberto Torrent <i>The Swiss P2P Road: from Theorecrete to Labcrete to Realcrete</i>	
10:00	10:20	Kei-ichi Imamoto <i>Relationship between air permeability and carbonation progress of concrete</i>	
10:20	10:45	Coffee break	
Parallel session		ROOM KAPTOL I Performance based design	ROOM KAPTOL II Durability enhancement
10:45	11:00	How can we move from prescription to performance? <i>Mindess, S. (USA)</i>	Performance versus prescriptive durability requirements - a case study <i>Gjørsv, O.E. (Norway)</i>
11:00	11:15	Field based performance indicators for concrete durability <i>Santhanam, M. (India)</i>	Evaluation of moisture and gas permeability of surface treated concrete under accelerated weathering conditions <i>Misono, M. (Japan)</i>
11:15	11:30	Probabilistic durability design and performance-based specification of concrete in the marine environment <i>Knights, J. (UK)</i>	Estimated performance of as-built internally cured concrete bridge deck <i>Villani, C. (USA)</i>
11:30	11:45	Water permeability of reinforced concrete structures containing fiber reinforcement <i>Charron J.-P. (Canada)</i>	Influence of finishing materials on carbonation suppression of concrete in existing structures <i>Nakai, A. (Japan)</i>
11:45	12:00	Key performance indicators - A new approach for specifying concrete and assessing state of health of concrete structures <i>Nanukuttan, S. (UK)</i>	Extension of service life by electrochemical treatment of steel reinforcement <i>Sergi, G. (UK)</i>
12:00	12:15	Difficulties encountered in the derivation of performance criteria for reinforced concrete structures based on degradation models <i>Gulikers, J. (The Netherlands)</i>	Curing of concrete <i>Jacobs, F. (Switzerland)</i>
12:15	12:30	The Development of performance-based durability tables for reinforced concrete in the marine environment <i>Knights, J. (UK)</i>	Investigation on fired animal bones as aggregate replacement in concrete <i>Makunza, J.K. (Tanzania)</i>
12:30	13:30	Lunch break	
Parallel session		ROOM KAPTOL I Durability modelling	ROOM KAPTOL II Concrete mix parameters
13:30	13:45	Use of resistivity and chloride resistance model to assess concrete durability of New Panama Canal <i>Andrade, C. (Spain)</i>	Porosity influence on life time of concrete structures analysed by chlorides migration testing <i>Ribeiro, D.V. (Brasil)</i>
13:45	14:00	Performance assessment of cracks in reinforced concrete: From crack width to crack volume <i>Pacheco, J. (The Netherlands)</i>	Durability of reinforced concrete member suffered hydrogen detonation <i>Yoda, Y. (Japan)</i>
14:00	14:15	Design of experiment and multi-criteria decision applied to concrete mixture with crushed brick and tile as an aggregate <i>Miličević, I. (Croatia)</i>	Coping with the effect of moisture on air-permeability measurements <i>Torrent, R. (Argentina)</i>
14:15	14:30	Predicting shrinkage deformation of high-strength concrete <i>Štirmer, N. (Croatia)</i>	Influence of blended cement type on concrete carbonation, capillary uptake and chloride penetration <i>Šajna, A. (Slovenia)</i>
14:45	15:00	Strategy for predicting transport-based durability properties of concrete based on DEM approach <i>Li, K. (The Netherlands)</i>	Autogenous deformations of dolomite based self-compacting concretes with different mineral additives <i>Gabrijel, I. (Croatia)</i>
15:00	15:15	Assessment of routine cover measurements during the upgrading of fifteen bridge structures near Keimoes, South Africa <i>Ronné, P. (South Africa)</i>	Durability of lightweight concretes containing expanded polystyrene <i>Bossio, A. (Italy)</i>
15:15	15:30	Simulation of cyclic effects on coupled ionic and moisture transport in concrete <i>Yoon, S. (Scotland)</i>	Use of two-stage (pre-placed aggregate) concrete to produce durable structural concrete <i>Abdelgader, H.S. (Libya)</i>

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DAY 2 - 12 JUNE 2014

HOTEL PANORAMA, Trg Krešimira Čosića 9

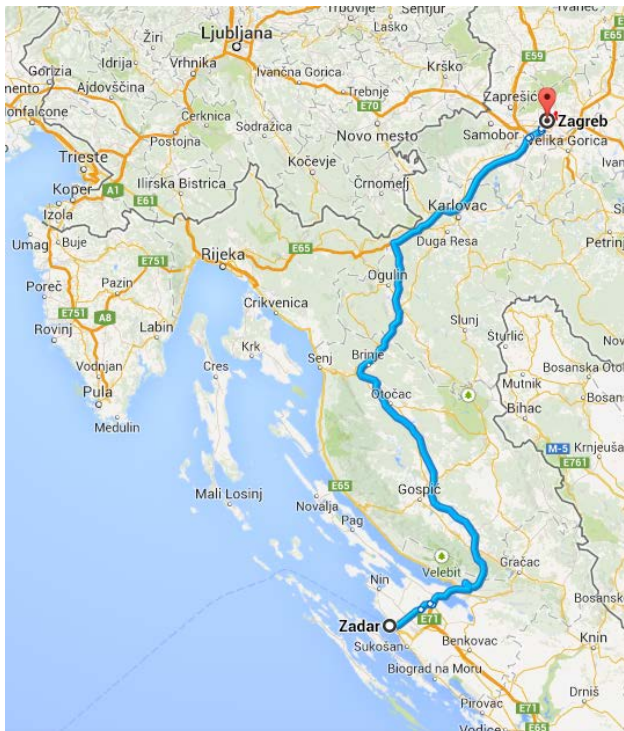
15:30	15:50	Coffee break	
Parallel session		ROOM KAPTOL I Maintenance and repair	ROOM KAPTOL II Special concretes
15:50	16:05	Reinforced concrete corrosion performance in Florida bridges <i>Sagues, A. (USA)</i>	Influence of fine aggregate lithology on internal sulfate attack in high early strength concrete <i>Amde, A. (USA)</i>
16:05	16:20	Controlling past and future deterioration of reinforced concrete <i>Christodoulou, C. (UK)</i>	Characteristics of pervious concrete made with steel slag for road construction application <i>Čosić, K. (Croatia)</i>
16:20	16:35	Aspects of conserving exposed concrete architecture with the Wotruba Church as an example <i>Ban, M. (Austria)</i>	Influence of steel fiber addition on the shrinkage of ordinary strength concrete and high strength concrete <i>Šahinagić - Isović, M. (Bosnia and Hercegovina)</i>
16:35	16:50	A monitoring system for preventive and programmed maintenance of concrete structures - case histories and studies <i>Moriconi, G. (Italy)</i>	Fibre reinforced SCC concrete with recycled fibres <i>Baričević, A. (Croatia)</i>
16:50	17:05	Life-cycle design after repair of chloride attacked concrete structures <i>Miyazato, S. (Japan)</i>	Impact strength evaluation of rubberized fiber reinforced SCC <i>Jevtić, D. (Serbia)</i>
17:05	17:20	Time to visual damage occurrence on building facades due to reinforcement corrosion <i>Köliö, A. (Finland)</i>	Development of high resistivity, high early strength concrete for direct current light rail <i>Tinnea, R. (USA)</i>
17:20	17:35	Study on structural performance of corroded RC member <i>Oshita, H. (Japan)</i>	
SOCIAL PROGRAMME			
19:30	Organised transport from Hotel Panorama		
20:00	Conference dinner, Restaurant LIDO, Aleja Matije Ljubeka 25		

DAY 3 - 13 JUNE 2014

TECHNICAL TOUR

VISITING PORT GAŽENICA IN ZADAR ON THE ADRIATIC COAST

08:00 Expected departure from Zagreb
20:00 - 22:00 Estimated arrival to Zagreb



VENUES

Lectures

OPENING SESSION

Faculty of Civil Engineering

Fra Andrije Kačića-Miošića 26, 10 000 Zagreb

LECTURES

Hotel Panorama

Trg Krešimira Ćosića 9, 10000 Zagreb

Social programme

WELCOME RECEPTION

ZAGREB EYE

Trg Josipa Bana Jelačića, Ilica 1a, 10000 Zagreb

CONFERENCE DINNER

Restaurant Lido

Aleja Matije Ljubeka 25, 10000 Zagreb

