8th International Conference

FIBRE CONCRETE 2015

Technology, Design, Application

DAP Hotel, Prague, Czech Republic

Orgnized by CTU in Prague, Faculty of Civil Engineering,
Department of Concrete and Masonry Structures

Thursday - September 10, 2015

8:00	9:00		**Registration**
9:00	9:30		**Opening Ceremony**

Session 1

9:30	9:45	**1**	UTILISATION OF UHPFRC IN STRUCTURES OF VACUUM INSULATED CONTAINERS *Ľudovít FILLO*
9:45	10:00	**2**	THIN PANELS OF CEMENT COMPOSITES REINFORCED WITH RECYCLED FIBRES FOR THE SHEAR STRENGTHENING OF REINFORCED CONCRETE ELEMENTS *Joaquim BARROS*
10:00	10:15	**3**	FIBRE REINFORCED CONCRETE IN STRUCTURAL APPLICATIONS *Steven POUILLON*
10:15	10:30	**4**	REVEW OF CERTAIN APPLICATIONS OF FIBRE REINFORCED CONCRETE IN SLOVENIA *Jakob ŠUŠTERŠIČ*
10:30	**11:00**		**Coffee Break**

Session 2

11:00	11:15	**5**	FIBRE DISTRIBUTION AND EFFICIENCY IN SFRC *Jan L. VÍTEK*
11:15	11:30	**6**	DEVELOPMENT OF SPECIAL FIBRE-REINFORCED CONCRETE FOR EXPOSED CONCRETE PAVEMENTS ON BRIDGES *Petr BÍLÝ*
11:30	11:45	**7**	EVALUATION OF FIBRE REINFORCED CONCRETE BEAM TEST RESULTS BASED ON THE EXAMINATION OF THE REAL FIBRE DISTRIBUTION *Károly Péter JUHÁSZ*
11:45	12:00	**8**	CREEP OF FIBRE REINFORCED CONCRETE - FLEXURAL TEST ON BEAMS *Wolfgang KUSTERLE*
12:00	**13:30**		**Lunch (Hotel DAP)**

Session 3

13:30	13:45	**9**	STEEL FIBRES IN TUNNEL LINING SEGMENTS – PAST AND PRESENT *Oldřich VLASÁK*
13:45	14:00	**10**	GLASS FIBER REINFORCED CONCRETE FOR SLABS ON GROUND – MATERIAL CHARACTERIZATION AND APPLICATION *Philipp LÖBER*
14:00	14:15	**11**	APPLICATION OF UHPC JOINTS OF CONCRETE ELEMENTS *David ČÍTEK*
14:15	14:30	**12**	NUMERICAL MODELING OF MASONRY-INFILLED REINFORCED CONCRETE FRAMES STRENGTHENED BY ENGINEERED CEMENTITIOUS COMPOSITES *Mohammad Hossein AHMADI*
14:30	14:45	**13**	EXPLORING THE USE OF HPFRC AND GFRP GRIDS FOR THE PRODUCTION OF MANHOLE COVERS *Mónica OÑA*
14:45	15:00	**14**	FATIGUE BEHAVIOUR OF HSC AND UHPFRC BEAMS WITH HIGH GRADE STEEL REINFORCEMENT *Tamás MÉSZÖLY*
15:00	**15:30**		**Coffee Break**

Session 4

15:30	15:45	**15**	EXPERIMENTAL BEHAVIOUR OF FIBRE-REINFORCED CONTINUOUS COMPOSITE SLABS *Mark BRADFORD*
15:45	16:00	**16**	TRC-STRENGTHENED COLUMNS *Regine ORTLEPP*
16:00	16:15	**17**	PREDICTION OF THE SHEAR STRENGTH OF STEEL FIBRE REINFORCED CONCRETE BEAMS *Saad AL-TAAN*
16:15	16:30	**18**	NUMERICAL ANALYSIS OF INTERACTION OF STEEL-FIBRE CONCRETE SLAB WITH SUBSOIL AND COMPARISON WITH VALUES MEASURED DURING EXPERIMENTAL LOADING TEST *Jana LABUDKOVA*
16:30	16:45	**19**	PRECAST FIBRE REINFORCED CONCRETE ELEMENT OF RETAINING WALL *Josef NOVÁK*

19:00 22:00 Conference Dinner (Botel Admirál)

Friday - September 11, 2015

Session 5

9:00	9:15	**20**	ENVIRONMENTAL AND COST BENEFIT OF VERY HIGH PERFORMANCE CONCRETE SOLUTION IN INDUSTRIAL BUILDING DESIGN *Olivier BAYARD*
9:15	9:30	**21**	CORRELATION BETWEEN BEAM AND BARCELONA TESTS FOR FRC QUALITY CONTROL FOR STRUCTURAL APPLICATIONS *Isaac GALOBARDES*
9:30	9:45	**22**	INFLUENCE OF POLYPROPYLENE FIBRES ON THE MECHANICAL AND DURABILITY PROPERTIES OF HIGH PERFORMANCE CONCRETE *Karthikeyan JAYAKUMAR*
9:45	10:00	**23**	LOCAL DAMAGE RESPONSE OF HFRC *Aref ABADEL*
10:00	10:15	**24**	ON THE USE OF MACRO SYNTHETIC FIBRES IN PRECAST TUNNEL SEGMENTS *Silvia TOMBA*

10:15 10:45 Coffee Break

Session 6

10:45	11:00	**25**	UPDATED REVIEW ON RECYCLING AND REUSE OF FIBRE REINFORCED POLYMER WASTES INTO CONCRETE BASED MATERIALS *Maria Cristina RIBEIRO*
11:00	11:15	**26**	STATIC AND DYNAMIC CHARACTERISTICS OF FIBRE REINFORCED WCA CONCRETE *Jacek KATZER*
11:15	11:30	**27**	EXPERIMENTAL INVESTIGATION ON THE EFFECT OF STEEL FIBRES ON THE MECHANICAL PROPERTIES OF RECYCLED AGGREGATE CONCRETE *Lamen SRYH*
11:30	11:45	**28**	CONCRETE REINFORCED WITH RECYCLED STEEL FIBRES FROM SCRAP TIRES: A CASE STUDY *Marianovella LEONE*
11:45	12:00	**29**	INFORMATION OF NORMATIVE PROCESS FOR FIBRE-REINFORCED CONCRETE STANDARDS IN THE CZECH REPUBLIC *Hana HANZLOVÁ*
12:00	12:15	**30**	STRENGTH AND BEARING CAPACITY IMPROVEMENT OF A POORLY GRADED SAND THROUGH FIBER REINFORCEMENT *Kenan HAZIRBABA*
12:15	12:30		**End of the Conference**

12:30 13:30 Lunch (Hotel DAP)

Poster session

1 PREDICTION OF THE TORSIONAL STRENGTH OF STEEL FIBRE REINFORCED CONCRETE MEMBERS
Saad AL-TAAN

2 EXPERIMENTAL INVESTIGATION OF A STRUCTURAL ELEMENT MADE FROM HIGH-PERFORMANCE TEXTILE CONCRETE LOADED BY THE BENDING MOMENT
Petr BOUŠKA

3 VALORIZATION OF WASTE MACHINING OF STEEL PARTS: MANUFACTURE OF REINFORCED CONCRETE WITH CORRUGATED METAL FIBERS
Mansour BOUZEROURA

4 THE ORIENTATION AND THE SLENDERNESS DATE PALM FIBERS EFFECT ON THE REINFORCED CONCRETE BEHAVIOR
Hamid BRAHMI

5 APPLICATION OF GREENER ENGINEERED CEMENTITIOUS COMPOSITES FOR SUSTAINABLE PAVEMENT OVERLAY
Estela GARCEZ

6 STEEL FIBRES VERSUS STIRRUPS AS SHEAR REINFORCEMENT FOR ULTRA-HIGH PERFORMANCE CONCRETE BEAMS – AN EXPERIMENTAL INVESTIGATION
Venees GERGES

7 TEXTILE REINFORCED CONCRETE - APPLICATION IN THIN-WALLED STRUCTURES
Tereza HLAVÁČOVÁ

8 MODELLING OF STEEL FIBRE REINFORCED CONCRETE (SFRC) UNDER DYNAMIC COMPRESSION
IBRAHIM Muhammad Syed

9 STRAIN RATE EFFECT ON STEEL FIBRE REINFORCED CONCRETE UNDER COMPRESSION
IBRAHIM Muhammad Syed

10 MODELLING OF THE EARLY AGE SHRINAKGE CRACKS WITH STEEL OR SYNTHETIC MACRO FIBRE REINFORCEMENT IN JOINTLESS FLOORS
Károly Péter JUHÁSZ

11 SOME MECHANICAL PROPERTIES OF STEEL FIBER REINFORCED CONCRETE AT DIFFERENT CURING TEMPERATURES
Saeid KAMKAR

12 THE EFFECTS OF CRACKING ON THE MODULUS OF RUPTURE OF CONCRETE
Zarak Khan KASI

13 AN OVERVIEW INTO THE USE OF SINGLE AND HYBRID FIBRE REINFORCED CONCRETE
Wafa LABIB

14 ANALYTICAL ANALYSIS OF DRYING SHRINKAGE OF SFRC BASED ON EXPERIMENTAL RESULTS
Darko NAKOV

15 DETERMINATION OF DEVELOPMENT LENGTHS OF TEXTILE REINFORCEMENT USING AN ADAPTIVE TESTING METHOD
Regine ORTLEPP

16 MECHANICAL PROPERTIES OF UHPC WITH DIFFERENT KINDS OF GLASS FIBRES
Radka PERNICOVÁ

17 CHARACTERISTICS OF SFRC WITH FIBRES DRAMIX 4D AND 5D PRODUCED BY BEKAERT
Václav RÁČEK

18 THE FIBER REINFORCED CONCRETE STRESS BENDING BY TRANSVERSAL FORCES
Vladimir RADOJIČIĆ

19 EFFECT OF FLY ASH AND WOLLASTONITE IN THE RESIDUAL TENSILE STRENGTH BY BENDING IN CONCRETE BEAMS REINFORCED WITH STEEL FIBERS
José Antonio RODRÍGUEZ

20 THE ISSUE OF NUMERICAL ANALYSIS OF FIBRE REINFORCED CONCRETE STRUCTURES
Tereza SAJDLOVÁ

21 MECHANICAL PROPERTIES OF HIGH PERFORMANCE FIBER REINFORCED CEMENTITIOUS COMPOSITE WITH HIGH
SEUNGWON Kim

22 INVESTIGATIONS ON THE BEHAVIOR OF REINFORCED BEAMS WITH STEEL FIBRES UNDER FLEXURAL LOADING
SHUKLA Mukesh

23 DEPENDENCE OF CRACK OPENING ON DEFLECTION DURING BENDING TEST OF FIBRE REINFORCED CONCRETE
Martin TIPKA

24 INFLUENCE OF FIBRES AND RECYCLED AGGREGATE ON PROPERTIES OF FIBRE REINFORCED CONCRETE
Vladimíra VYTLAČILOVÁ

25 INFLUENCE OF MICROSTRUCTURE MODIFICATION ON THE CAPILLARITY OF CEMENT MORTARS REINFORCED WITH 6 MM POLYPROPYLENE FIBRES
Agata WYGOCKA-DOMAGAŁŁO

26 DESIGN OF PEDESTRIAN BRIDGE FROM TEXTILE REINFORCED CONCRETE
Tomáš ZELENKA

27 ENVIRONMENTALLY FRIENDLY CONCRETE USING RESIDUES OF WOOD
István BÓDI

28 EXPERIMENTAL ANALYSIS OF THE SHEAR CAPACITY OF PRESTRESSED FRC BEAMS
Kálmán KORIS