

WEDNESDAY  
19.09.2012Registration  
starts tuesday  
18.09.2012  
from  
18h00 to 20h00THURSDAY  
20.09.2012

8h00>9h20	<b>REGISTRATION</b>
9h20>10h00	<b>OPENING CEREMONY (ROOM A)</b>
10h00>10h40	<b>KEYNOTE LECTURER 1 (ROOM A)</b> Marco di Prisco Chairman: Gyorgy Balazs
10h40>11h00	<b>COFFEE BREAK</b>
11h00>13h00	<b>SESSION 1 (ROOM A)</b> <b>MECHANICAL PROPERTIES (1)</b> Chairman: Alessandro Fantilli Co-Chairman: José Sena Cruz
11h00>11h20	<b>BENDING BEHAVIOR OF 3D FABRIC REINFORCED CEMENTITIOUS COMPOSITES</b> E. Amzaleg, A. Peled, S. Janetzko, T. Gries
11h20>11h40	<b>FRC IN COMPLEX GEOMETRY FACADES</b> T. Henriksen, A. Schiftner
11h40>12h00	<b>FIBER SYNERGY IN HYBRID FIBER REINFORCED CONCRETE (HYFRC) IN FLEXURE, SHEAR AND IMPACT</b> N. Bantia, F. Majdzadeh, J. Wu
12h00>12h20	<b>DESIGN OF LARGE SFRC MEMBER IN BENDING</b> R. de Montaignac, B. Massicotte, J.-P. Charron
12h20>12h40	<b>EXPERIMENTAL STUDY OF SCALING EFFECT RELATED TO POST-CRACKING BEHAVIOURS OF METAL FIBRES REINFORCED CONCRETES (MFRCP)</b> P. Rossi
12h40>13h00	<b>TENSION LAP SPICES STRENGTHENED WITH ULTRA HIGH PERFORMANCE FIBRE REINFORCED CONCRETE</b> M.A. Dagenals, B. Massicotte
13h00>14h20	<b>LUNCH</b>
14h20>16h00	<b>SESSION 3 (ROOM A)</b> <b>MECHANICAL PROPERTIES (2)</b> Chairman: Clément Molins Co-Chairman: Salvador Dias
14h20>14h40	<b>IDENTIFICATION OF TENSILE BEHAVIOUR OF SFRC-SCC: DIRECT VS. INDIRECT TESTS</b> L. Ferrara, A. Caverzan, M. Muhaether, M. di Prisco
14h40>15h00	<b>FIBRE REINFORCED ULTRA HIGH PERFORMANCE CONCRETE UNDER IMPACT LOAD</b> S. Ilguth, D. Lowke, C. Gehlen
15h00>15h20	<b>A NEW STRATEGY TO REDUCE THE ENVIRONMENTAL IMPACT OF FRC</b> A. P. Fantilli, B. Chiaia
15h20>15h40	<b>LOAD-BEARING BEHAVIOUR OF TEXTILE REINFORCED CONCRETE WITH SHORT FIBRES</b> M. Hinzén, W. Brameshuber
15h40>16h00	<b>NEW VIEWS ON THE STUDY OF VARIABLES AFFECTING BOND OF REINFORCING BARS TO STEEL FIBER REINFORCED CONCRETE</b> E.G. Taengua, L. Mas, J.R. Marti Vargas, P. Serna Ros
16h00>16h20	<b>COFFEE BREAK</b>
16h20>18h00	<b>SESSION 5 (ROOM A)</b> <b>MECHANICAL PROPERTIES (3)</b> Chairman: Giovanni Plizzari Co-Chairman: Terje Kanstad
16h20>16h40	<b>RESIDUAL COMPRESSIVE STRENGTH OF FIRE EXPOSED FIBRE REINFORCED CONCRETE</b> G.L. Balázs, E. Lublőy
16h40>17h00	<b>CHARACTERIZATION OF CRACKING IN STRAIN HARDENING CEMENTITIOUS COMPOSITES USING THE COMPACT TENSION TEST</b> E.B. Pereira, G.Fischer, J.A.O. Barros
17h00>17h20	<b>MECHANICAL PROPERTIES OF HIGH STRENGTH CONCRETE WITH RECYCLED STEEL FIBRES FROM WASTE TYRES</b> D. Bjegeovic, A. Baricevic, S. Lakusic
17h20>17h40	<b>INFLUENCE OF FIBRE ORIENTATION ON THE PERFORMANCE OF STEEL FIBRE-REINFORCED CONCRETE</b> S. Grünewald, F. Laranjeira, J.C. Walraven, A. Aguado, C. Molins
17h40>18h00	<b>INITIAL STUDY ON THE TENSILE CREEP OF CRACKED STEEL FIBRE REINFORCED CONCRETE</b> C.J. Mouton, W.P. Boshoff
19h30>21h30	<b>WELCOME RECEPTION</b> in the Alberto Sampaio Museum

**SESSION 2 (ROOM B)**  
**RHEOLOGY**  
Chairman: Barzín Mobasher  
Co-Chairman: Miguel Azenha**RHEOLOGICAL CHARACTERIZATION OF HIGH PERFORMANCE FIBRE REINFORCED CEMENTITIOUS COMPOSITES**  
M. Haist, L. Ferrara**RHEOLOGICAL CHARACTERISATION OF THE EFFECT OF STEEL FIBRES IN SELF-COMPACTING CONCRETE**  
S. Grünewald, J.C. Walraven**INFLUENCE OF RESTRAINT ON THE EARLY AGE CRACKING OF CONCRETE WITH AND WITHOUT FIBRES**  
R. Combrinck, W.P. Boshoff**ASSESSMENT OF FIBRE ORIENTATION AND DISTRIBUTION IN STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE PANELS**  
A. Abishambaf, J. Barros, V.M.C.F. Cunha, F.N.M. Cunha**TESTING THE FRESH AND HARDENED STATE PERFORMANCE OF STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE**  
L. Ferrara, P. Bamonte, A. Caverzan, A. Musa, I. Sanal**INFLUENCE OF CONCRETE FLOW ON FIBRE DISTRIBUTION, ORIENTATION AND MECHANICAL PROPERTIES OF FIBRE REINFORCED CONCRETE**  
E.V. Sarmiento, G. Zirculis, S. Sandbakk, M.R. Geiker, T. Kanstad**SESSION 4 (ROOM B)**  
**LONG-TERM PROPERTIES AND DURABILITY (1)**  
Chairman: Alva Peled  
Co-Chairman: Raül Zerbino**LONG TERM BEHAVIOUR OF FIBER REINFORCED CONCRETE BEAMS IN BENDING**  
E. Vasanelli, F. Micelli, M.A. Aiello, G. Plizzari**STRUCTURAL BEHAVIOUR OF GLASS FIBRE REINFORCED SELF COMPACTING CONCRETE WALL PANELS**  
M. Chandrasekhar, M.V. Seshagiri Rao, M. Janardhana**A FUZZY PROBABILISTIC DURABILITY CONCEPT FOR STRAIN-HARDENING CEMENT-BASED COMPOSITES**  
F. Altmann, V. Mechtcherine**DURABILITY OF HEMP FIBERS IN THE ALKALINE ENVIRONMENT OF CEMENT MATRIX**  
I. Merta, K. Kopeckó, E.K. Tschegg**Time dependant behaviour of SFRC elements under sustained loads**  
D. Nakov, G. Markovski**SESSION 6 (ROOM B)**  
**LONG-TERM PROPERTIES AND DURABILITY (2)**  
Chairman: Pedro Serna  
Co-Chairman: Ann Lambrechts**TRANSPORT PROPERTIES IN CRACKED FIBRE REINFORCED CONCRETE**  
M.C. Torrijos, G. Giaccio, R. Zerbino**WATER PERMEABILITY OF FIBER REINFORCED CONCRETE SUBJECTED TO CONSTANT AND CYCLIC TENSILE LOADING**  
C. Desmetre, J.-P. Charron**BEHAVIOR UNDER THERMAL SHOCK OF STEEL FIBER REINFORCED REFRACTORY CONCRETE**  
R.D.T. Filho, L.F.L. Rosa, J.D. Vieira, A.C.J. Evangelista, I.F. de Moraes, L.F. Santos, F. Medeiros**AN APPLICATION OF HPFRC AND FIBER NET FOR RECOVERING STRENGTH OF RC MEMBERS DETERIORATED BY CHLORIDE INDUCED CORROSION**  
K. Kobayashi, S. Asano, R. Ohashi, K. Rokugo**EXPERIMENTAL RESEARCH ON UNI-AXIAL TENSILE CREEP BEHAVIOUR OF PRE-CRACKED STEEL FIBER REINFORCED CONCRETE**  
G. Zhao, M. di Prisco, L. Vandewalle**SESSION 7 (ROOM A)**  
**MECHANICAL PROPERTIES (4)**  
Chairman: Marco di Prisco  
Co-Chairman: Joaquim Barros**DIRECT SHEAR STRENGTH OF ANNEALED-WIRE FIBRE CONCRETE**  
E.A. Basoendondo, E. Tjahjono, I.C. Lukito**SILICA MODIFIED SYNTHETIC FIBER FOR IMPROVING INTERFACE PROPERTY IN FRC**  
Z. Yang, J. Liu, C. Li, H. Zhou**MECHANICAL BEHAVIOUR OF WOOD FIBRE REINFORCED CEMENTITIOUS COMPOSITES**  
L. Sierra-Beltran, E. Schlangen**INVESTIGATION ON SINGLE FIBER PULLOUT AND INTERFACIAL DEBONDING MECHANISMS WITH ACOUSTIC EMISSION TECHNIQUES**  
G. Zhao, Els Verstryngne, M. di Prisco, L. Vandewalle**FATIGUE BEHAVIOR OF SFRC UNDER BENDING**  
F. Germano, G.A. Plizzari**MATERIAL PROPERTIES OF FIBRE REINFORCED UHPC**  
N. Randl, F. Däuber**SESSION 9 (ROOM A)**  
**MECHANICAL PROPERTIES (5)**  
Chairman: Lucie Vandewalle  
Co-Chairman: Billy Boshoff**DESIGN AND CHARACTERIZATION OF SELF-COMPACTING FIBRE REINFORCED LIGHTWEIGHT AGGREGATE CONCRETE**  
H. Costa, D. Esteves, E. Júlio, T. Simões**FIBRE REINFORCED CONCRETE USING POLYETHYLENE STRIPS**  
N.L. Holland, J.M. Nichols, A.B. Nichols**DESIGN OF UHPFRC WITH ENHANCED DUCTILITY AND FLOWABILITY**  
E. Ghafari, H. Costa, E. Júlio**PULLOUT BEHAVIOR OF POLYVINYL ALCOHOL FIBER FROM CEMENTITIOUS MATRIX DURING PLASTIC STATE**  
J. Liu, C. Li, J. Liu, Z. Yang, G. Cui**REUSE OF STEEL FIBRES FROM SCRAP TIRES IN FRC**  
G. Centonze, M. Leone, M.A. Aiello**DESIGN OF UHPFRC WITH ENHANCED DUCTILITY AND FLOWABILITY**  
E. Ghafari, H. Costa, E. Júlio**PULLOUT BEHAVIOR OF POLYVINYL ALCOHOL FIBER FROM CEMENTITIOUS MATRIX DURING PLASTIC STATE**  
J. Liu, C. Li, J. Liu, Z. Yang, G. Cui**REUSE OF STEEL FIBRES FROM SCRAP TIRES IN FRC**  
G. Centonze, M. Leone, M.A. Aiello**LUNCH****SESSION 11 (ROOM A)**  
**MECHANICAL PROPERTIES (6)**  
Chairman: Viktor Mechtcherine  
Co-Chairman: Alessandro Fantilli**HYBRID CEMENT-BASED COMPOSITES: DYNAMIC AND STATIC TENSILE BEHAVIORS**  
Z. Cohen, A. Peled, B. Mobasher, S. Janetzko, T. Gries**FRACTURE STUDIES ON CONCRETES WITH HYBRID STEEL FIBERS**  
M. Arall, O. Sengul, C. Tasdemir, M.A. Tasdemir**FIBRE REINFORCED CONCRETE ENTIRELY MADE FROM RECYCLED CONSTRUCTION WASTE, SYNTHETIC FIBRES, CEMENT AND WATER AND ITS PRACTICAL UTILISATION**  
J. Vodicka, V. Vytlacilova**MODELLING THE FLOW OF SELF-COMPACTING HIGH AND ULTRA-HIGH PERFORMANCE FIBRE-REINFORCED CONCRETES**  
R. Deeb, S. Kulasegaram, B.L. Karihaloo**POSTER SESSION**  
**EVALUATION OF CONCRETE PIPES REINFORCED WITH STEEL FIBRES**  
J.L. Akasaki, A.P. Fugui, J.L.P. Melges, R.M. Queiroz, T.F.S. Trentin, M.M. Tashima**BENDING BEHAVIOUR OF PYA-FIBRE REINFORCED LIGHTWEIGHT CONCRETE**  
K. Holschemacher, H. Kieslich**METHODOLOGY OF MEASURING CREEP OF CONCRETE SPECIMEN REINFORCED WITH POLYMER FIBRES SUBJECTED TO BENDING**  
J. Fládr, J. Vodicka, J. Krátý**DESIGN CURVES OF STRAIN SOFTENING AND STRAIN HARDENING FIBRE REINFORCED CONCRETE ELEMENTS SUBJECTED TO AXIAL LOAD AND BENDING MOMENTS**  
R. Varma, J. Barros, J.M. Sena-Cruz**COFFEE BREAK****SESSION 8 (ROOM B)**  
**LONG-TERM PROPERTIES AND DURABILITY (3)**  
Chairman: Nengkumar Banthia  
Co-Chairman: Alva Peled**CRACK CONTROL IN FIBROUS RC ELEMENTS**  
G. Tiberti, F. Minelli, G.A. Plizzari**TEMPERATURE EFFECT ON THE LONG-TERM BEHAVIOUR OF MACRO-SYNTHETIC- AND STEEL-FIBRE REINFORCED CONCRETE**  
N. Buratti, C. Mazzotti**EFFECTS OF DIFFERENT TYPES AND DOSAGES OF FIBRES ON THE LONG-TERM BEHAVIOUR OF FIBRE-REINFORCED SELF-COMPACTING CONCRETE**  
N. Buratti, C. Mazzotti**LONG-TIME CREEP TESTING OF PRE-CRACKED FIBRE REINFORCED CONCRETE BEAMS**  
T. Kanstad, G. Zirculis**INFLUENCE OF VARIATION OF MICROFIBRE TYPES AND FIBER ON WORKABILITY, MECHANICAL CHARACTERISTICS AND SOME DURABILITY PROPERTIES OF FIBRE REINFORCED HIGH STRENGTH SELF-COMPACTING CONCRETE**  
M. Rezvani, S. Palecki, D.C. Lupascu**A COMPREHENSIVE STUDY ON THE EFFECT OF FIBERS AND LOADING ON FLEXURAL CREEP OF SFRC**  
S. Arango, E.G. Taengua, J.R. Marti Vargas, P. Serna Ros**COFFEE BREAK****SESSION 10 (ROOM B)**  
**ANALYTICAL AND NUMERICAL MODELS (1)**  
Chairman: Jean-Philippe Charron  
Co-Chairman: Marco di Prisco**ANALYSIS OF DRYING SHRINKAGE ON FIBRE REINFORCED CONCRETE BY THE MODEL B3**  
M. Sahinagic-Isovic, T. Aranjelovski**NUMERICAL TOOL FOR MODELLING STEEL FIBER REINFORCED CONCRETE**  
C. Molins, A. Pros, P. Diez**FIBRE REINFORCED SELF-COMPACTING CONCRETE FLOW SIMULATIONS IN COMPARISON WITH L-BOX EXPERIMENTS USING CARBOPOL**  
O. Švec, J. Škoček, J.F. Olesen, H. Stang**FLEXURAL DESIGN OF STRAIN HARDENING CEMENT COMPOSITES**  
B. Mobasher, C. Barsby**PREDICTING THE FLOW-INDUCED DISPERSION AND ORIENTATION OF STEEL FIBERS IN SELF-CONSOLIDATING CONCRETE BY DISTINCT ELEMENT METHOD**  
L. Ferrara, S. Shyshko, V. Mechtcherine**PREDICTING THE FLOW-INDUCED DISPERSION AND ORIENTATION OF STEEL FIBERS IN SELF-CONSOLIDATING CONCRETE BY DISTINCT ELEMENT METHOD**  
L. Ferrara, S. Shyshko, V. Mechtcherine**SESSION 12 (ROOM B)**  
**ANALYTICAL AND NUMERICAL MODELS (2)**  
Chairman: Pierre Rossi  
Co-Chairman: Lucie Vandewalle**MODELLING OF STRESS-STRAIN BEHAVIOUR OF SISAL FIBRE REINFORCED CONCRETE USING DAMAGE THEORY**  
P.R.L. Lima, R.D.T. Filho, J.M. Filho**A DESIGN MODEL FOR FIBRE REINFORCED CONCRETE BENDING ELEMENTS WITH LONGITUDINAL PRE-STRESSED STEEL AND FRP BARS**  
M. Taheri, J.A.O. Barros, H. Salehian**A COMPARATIVE STUDY BETWEEN EXPERIMENTAL AND NUMERICAL ANALYSES OF STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE STRUCTURAL BEHAVIOR**  
S.S. Penna, P.C. Guetti, R.S. Pitangueira, G.O. Ribeiro, P. Serna**A COMPARATIVE STUDY BETWEEN EXPERIMENTAL AND NUMERICAL ANALYSES OF STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE STRUCTURAL BEHAVIOR**  
S.S. Penna, P.C. Guetti, R.S. Pitangueira, G.O. Ribeiro, P. Serna**STEEL-FIBRE-REINFORCED CONCRETE BEAMS UNDER CYCLIC LOADS**  
A. Abbas, S. Syed Mohsin, D. Cotsosovs**STEEL-FIBRE-REINFORCED CONCRETE BEAMS UNDER CYCLIC LOADS**  
A. Abbas, S. Syed Mohsin, D. Cotsosovs

THURSDAY  
20.09.2012

16h20>18h00	<b>SESSION 13 (ROOM A) MECHANICAL PROPERTIES (7)</b> Chairman: Bruno Massicotte Co-Chairman: Fausto Minelli
16h20>16h40	FIBRES INTRODUCTION IN SELF-COMPACTING CONCRETE USING BELEM MATERIALS <b>F.F. Mendonça Filho</b> , J.Z.R. Silva Junior
16h40>17h00	EFFECTS OF CURING CONDITIONS ON CRACK BRIDGING RESPONSE OF PVA REINFORCED CEMENTITIOUS MATRIX <b>E. Esmaeili</b> , J. Barros, M. Mastali
17h00>17h20	EARLY AGE BEHAVIOUR OF SELF COMPACTING CONCRETE WITH POLYPROPYLENE FIBERS AND CARBON NANOFIBERS <b>J. Puentes</b> , G. Barluenga, I. Palomar
17h20>17h40	EFFECT OF HIGH TEMPERATURES ON STEEL FIBER REINFORCED CONCRETE WITH EAF SLAG AGGREGATES <b>I. Papayianni</b> , M. Papachristoforou
17h40>18h00	EXPERIMENTAL AND NUMERICAL ANALYSIS OF SFRC GROUND SLABS UNDER POINT LOADING ON ELASTIC SUB-BASE <b>I. Gokalp</b> , O.T. Turan, M. Aydogan, <b>M.A. Tasdemir</b>
18h00>18h20	LOCAL IMPACT DAMAGE BEHAVIOR OF FIBER REINFORCED HIGH STRENGTH CONCRETE SLABS <b>A. Abadel</b> , H. Abbas, T. Almusallam, Y. Al-Salloum, S. Alsayed, N. Siddiqui, R. Iqbal

<b>SESSION 14 (ROOM B) ANALYTICAL AND NUMERICAL MODELS (5)</b> Chairman: Koichi Kobayashi Co-Chairman: Jean-Philippe Charron	THE PREDICTIVE PERFORMANCE OF DESIGN MODELS FOR THE PUNCHING RESISTANCE OF SFRC SLABS IN INNER COLUMN LOADING CONDITIONS <b>B.N.M. Neto</b> , J.A.O. Barros, G.S. Melo
NON-LINEAR FINITE ELEMENT ANALYSIS OF STEEL FIBRE REINFORCED BEAMS WITH CONVENTIONAL REINFORCEMENT <b>D. Fall</b> , R. Rempling, A. Jansson, K. Lundgren, K. Gylltoft	NUMERICAL SIMULATIONS OF THREE-POINT BENDING TESTS: TWO DISTINCT APPROACHES <b>V.M.C.F. Cunha</b> , J.A.O. Barros, J.M. Sena-Cruz
AN ATTEMPT TO THE DETERMINATION OF THE PARTIAL SAFETY FACTOR FOR SFRC MEMBERS SUBJECTED TO BENDING FORCES <b>C. Camós</b> , J.R. Casas, <b>C. Molins</b>	ON THE DESIGN OF STEEL FIBRE REINFORCED CONCRETE PAVEMENTS AND SLABS-ON-GRADE <b>S.K. Nayar</b> , <b>R. Gettu</b>
NUMERICAL MODELING OF PRECAST FRC SEGMENTS: THE MONTE LIRIO TUNNEL IN PANAMA <b>A. Meda</b> , <b>F. Nerilli</b> , Z. Rinaldi	

## PROGRAMME

FRIDAY  
21.09.2012

9h00>10h20	<b>SESSION 15 (ROOM A) LONG-TERM PROPERTIES AND DURABILITY (4)</b> Chairman: Billy Boshoff Co-Chairman: Gyorgy Balazs
9h00>9h20	SHRINKAGE PROPERTIES OF POLYOLEFIN FIBER REINFORCED MORTARS <b>B. Kiani</b> , T. Rahmani, M. Nemat Chari, M. Shekarchizadeh
9h20>9h40	EVOLUTION OF REMAINING COMPRESSIVE STRENGTH OF FIBRE REINFORCED HIGH STRENGTH CONCRETE UNDER FATIGUE EFFORTS <b>J. Miguez</b> , D.C. González, M.A. Vicente, J.A. Martínez
9h40>10h00	NON-DESTRUCTIVE MONITORING OF FIBER DISPERSION IN FIBER REINFORCED CONCRETE: A COMPARISON BETWEEN DIFFERENT METHODS <b>L. Ferrara</b> , M. Falfer, S. Toscani, R. Ottoboni
10h00>10h20	PAN-FIBRE MODIFIED CONCRETE <b>I.N. Minsadrov</b>
10h20>11h00	<b>KEYNOTE LECTURER 2 (ROOM A)</b> Barzin Mobasher Chairman: Romildo Toledo Fº
11h00>11h20	<b>COFFEE BREAK</b>
11h20>13h00	<b>SESSION 17 (ROOM A) CODES AND STANDARDS</b> Chairman: Liberato Ferrara Co-Chairman: Steffen Grunewald
11h20>11h40	A NEW APPROACH ON CRUSHING STRENGTH TEST FOR FIBRE REINFORCED CONCRETE <b>A. Figueiredo</b> , A. de la Fuente, C. Molins, A. Aguado
11h40>12h00	INTERFACIAL BOND BEHAVIOUR OF GFRP BAR IN SELF-COMPACTING FIBRE REINFORCED CONCRETE <b>H. Mazheripour</b> , J. Barros, F. Soltanzadeh, D. Gonçalves
12h00>12h20	A SEMI-ANALYTICAL MODEL TO SIMULATE THE DIRECT SHEAR PULL-OUT BEHAVIOUR OF HOOKED-END STEEL FIBRES <b>T. Soetens</b> , S. Matthys

<b>SESSION 16 (ROOM B) STRUCTURAL AND INDUSTRIAL APPLICATIONS (1)</b> Chairman: Steffen Grunewald Co-Chairman: Mehmet Tasdemir	SHEAR STRENGTH OF BEAMS REINFORCED WITH SYNTHETIC MACRO-FIBERS AND STIRRUPS <b>S. Altoubat</b> , Y. Ardavan, K.A. Rieder
BEHAVIOR OF HYBRID FIBRE REINFORCED WALL PANELS <b>M. Chandrasekhar</b> , <b>M. Janardhana</b> , M.V.S. Rao	STEEL FIBRE AS ONLY REINFORCING IN FREE SUSPENDED ONE WAY ELEVATED SLABS: DESIGN CONCLUSIONS OF A TUNNEL FORMED SLAB AND WALLS BASED UPON FULL SCALE TESTING RESULTS <b>C. Kleinman</b> , <b>X. Destrée</b> , A. Lambrechts, A. Hoelkstra
PERFORMANCE OF STEEL FIBRE REINFORCED CONCRETE COLUMNS UNDER SIMULATED BLAST LOADING <b>R. Burrell</b> , H. Aoude, M. Saatcioglu	<b>SESSION 18 (ROOM B) STRUCTURAL AND INDUSTRIAL APPLICATIONS (2)</b> Chairman: Ravindra Gettu Co-Chairman: Nengkumar Banthia
DESIGN AND TESTING ELEVATED STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE SLABS <b>J.A.O. Barros</b> , H. Salehian, N.M.M.A. Pires, D.M.F. Gonçalves	SHEAR STRENGTH IMPROVEMENT OF UNREINFORCED MASONRY WALLS BY MEANS OF HIGH PERFORMANCE STEEL FIBRE REINFORCED MORTAR <b>L. Faccioni</b> , A. Conforti, F. Minelli, G. Plizzari
FIBRE REINFORCED CONCRETE PIPES: NEW DESIGNING TRENDS <b>A. de la Fuente</b> , A.D. de Figueiredo, A. Aguado, C. Molins, R. Escariz	

12h20>12h40	CRACK WIDTH CONTROL FOR ELEMENTS REINFORCED WITH REBARS AND RECYCLED STEEL FIBRES: AN EXPERIMENTAL AND THEORETICAL STUDY <b>G. Groll</b> , A.P. Caldentey
12h40>13h00	DESIGN CHARTS FOR STEEL FIBRE REINFORCED CONCRETE ELEVATED SLABS <b>D. Nakov</b>
13h00>14h20	<b>LUNCH</b>
14h20>16h00	<b>SESSION 19 (ROOM A) INNOVATIVE STRUCTURAL SYSTEMS</b> Chairman: Stephen Foster Co-Chairman: António Figueiredo
14h20>14h40	STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE FOR LIGHTWEIGHT AND DURABLE PEDESTRIAN BRIDGES: CREEP BEHAVIOUR <b>P.J.D. Mendes</b> , J.A. Barros, D.M.F. Gonçalves, J.M. Sena-Cruz
14h40>15h00	BOLTED JOINTS FOR UHPFRC PRECAST PRESTRESSED ELEMENTS <b>E. Camacho</b> , J.A. López, P. Serna
15h00>15h20	CONCEPTION OF SANDWICH STRUCTURAL PANELS COMPRISING THIN WALLED STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE (SFRC) AND FIBRE REINFORCED POLYMER (FRP) CONNECTORS <b>R. Lameiras</b> , J. Barros, M. Azenha, I. Valente
15h20>15h40	STEEL FIBRE REINFORCED INTERIOR BEAM-COLUMN JOINTS WITHOUT SHEAR REINFORCEMENT AND BEAM BARS PASSING THROUGH JOINT <b>Y. Ishikawa</b> , Y. Tanabe, H. Takatsu, H. Kimura
15h40>16h00	APPLICATION OF PVA-FIBRE REINFORCED LIGHTWEIGHT CONCRETE FOR THE RETROFITTING OF TIMBER BEAM CEILINGS <b>K. Holschemacher</b> , H. Kieslich
16h00>16h20	STRUCTURAL BEHAVIOUR OF HYBRID CONCRETE BEAMS WITH FIBRE REINFORCED LIGHTWEIGHT CONCRETE <b>L.G. Nes</b> , <b>J.A. Overli</b>
16h20>16h40	<b>COFFEE BREAK</b>
16h40>17h30	<b>CLOSING CEREMONY (ROOM A)</b>
19h45>23h30	<b>BANQUET DINNER</b> in the Pousada de Santa Marinha

INFLUENCE OF STEEL FIBRES, USED IN CONJUNCTION WITH UNCONFINED REBAR CONFIGURATIONS, ON THE STRUCTURAL PERFORMANCE OF PRECAST ELEMENTS <b>G.P. Robinson</b> , A. Palmeri, S.A. Austin	STEEL FIBRE REINFORCED SELF-COMPACTING CONCRETE FOR GRID FOUNDATIONS OF SINGLE-FAMILY HOUSES <b>N. Alves</b> , J. Barros, A. Nunes, L. Lourenço
<b>SESSION 20 (ROOM B) STRUCTURAL AND INDUSTRIAL APPLICATIONS (3)</b> Chairman: Terje Kanstad Co-Chairman: Climent Molins	DUCTILITY ANALYSIS ON THE POST-PEAK BEHAVIOR OF SELF-COMPACTING FIBRE REINFORCED CONCRETE (SCFRC) BEAMS SUBJECTED TO SHEAR <b>E. Cuenca</b> , J. Echeagaray, P. Serna, A. Pasetto
SHEAR BEHAVIOUR OF SHALLOW BEAMS IN POLYPROPYLENE FIBRE REINFORCED CONCRETE <b>B. Barragan</b> , A. Conforti, <b>F. Minelli</b> , S. Moro, G.A. Plizzari, L. Toffoli	SHEAR STRENGTH OF PRE-TENSIONED MEMBERS IN HIGH STRENGTH FIBRE REINFORCED CONCRETE <b>L. Moreillon</b> , J. Nseir, R. Suter, R. Le Roy
CONCRETE BEHAVIOUR AND CRACK CONTROL OF PRESTRESSED CONCRETE BEAMS WITH FIBRES <b>A. Kohnoutková</b> , <b>I. Broukalová</b>	SHEAR RESISTANCE OF MACRO-SYNTHETIC AND STEEL FIBRE REINFORCED CONCRETE BEAMS WITHOUT STIRRUPS <b>B. Parmentier</b> , N. Cauberg, L. Vandewalle
PRELIMINARY CALCULATIONS AND CASTING STAGES OF A UHPFRC TRUSS FOOTBRIDGE <b>J.A. López</b> , P. Serna, E. Camacho, J. Navarro	