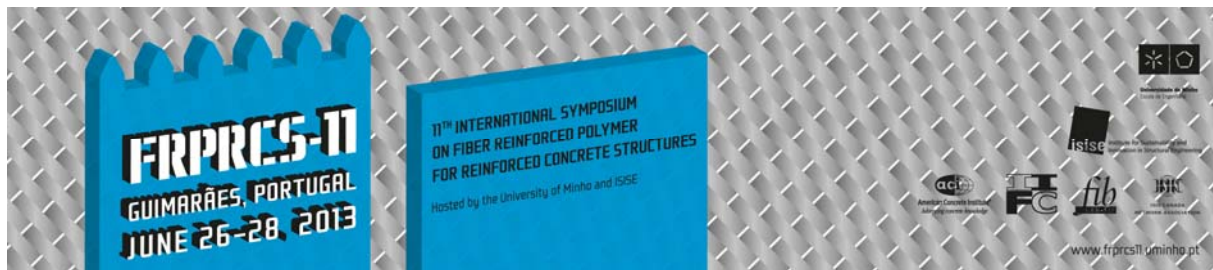
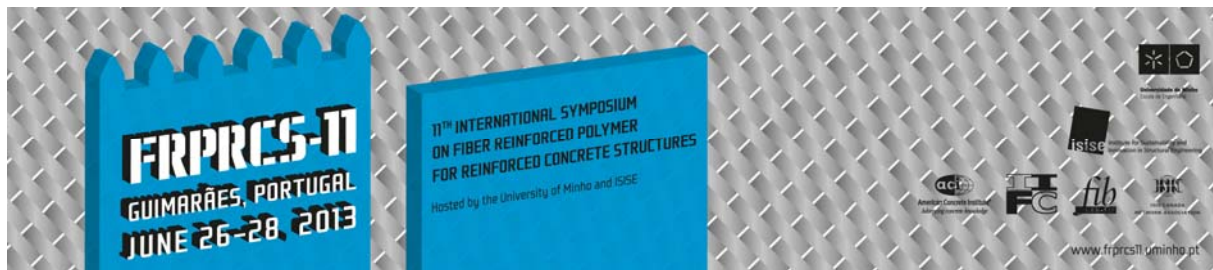


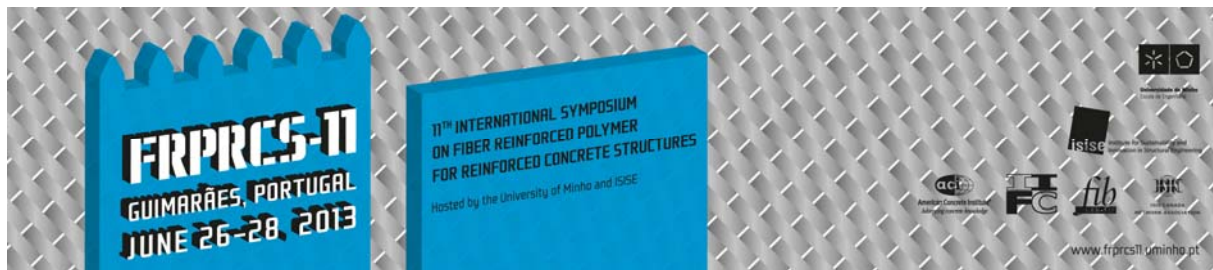
Tuesday - 25/06/2013		
18:00 - 20:00	Registration	
Wednesday - 26/06/2013		
8:00 - 9:20	Registration	
9:20 - 10:00	Opening Ceremony (Room A)	
10:00 - 10:40	Keynote Lecturer 1 (Room A) Brahim Benmokrane Chairman: Thanasis Triantafillou	
10:40 - 11:00	Coffee Break + Poster Session 1	
11:00 - 13:00	Session 1 (Room A) New FRP-based materials, systems and strengthening techniques (1) Chairman: Abdeldjelil Belarbi Co-Chairman: Sena-Cruz	Session 2 (Room B) Durability and long term behavior of FRP materials and systems (1) Chairman: Luke Bisby Co-Chairman: Andrea Prota
11:00 - 11:20	Strengthening concrete structures using mineral based composites <i>T. Blanksvärd, G. Sas, B. Täljsten</i>	Investigation of moisture behavior of high strength concrete and FRP bond by accelerated durability test <i>J. Shrestha, T. Ueda, D. Zhang, A. Kitami, A. Komori</i>
11:20 - 11:40	Compressive and flexural behavior of natural flax FRP tube confined coir fiber reinforced concrete <i>L. Yan, N. Chouw, K. Jayaraman</i>	Simplified method for the calculation of long-term deflections in FRP-strengthened reinforced concrete beams <i>A.R. Mari, E. Oller, J.M. Bairán, N. Duarte</i>
11:40 - 12:00	Strengthening of infilled reinforced concrete frames with textile-reinforced mortar (TRM): a study on the development and testing of textile-based anchors <i>L. Koutas, A. Pityzogia, T.C. Triantafillou, S.N. Bousias</i>	Low temperature bond behavior of concrete with braided aramid fiber bars <i>A. Rolland, S. Chataigner, K. Benzarti, L. Dieng, O. Boudarene, J.M. Paul, M. Quiertant, P. Collet</i>
12:00 - 12:20	Hybrid composite plates (HCP) for shear strengthening of RC beams <i>E. Esmaeeli, J.A.O. Barros, H. Baghi</i>	Assessment of the long term behaviour of structural adhesives in the context of NSM flexural strengthening technique with prestressed CFRP laminates <i>J. G. Costa, J.A.O. Barros</i>
12:20 - 12:40	GFRP-reinforcement bars as fasteners for high heat-insulating multi-layered sandwich panels <i>M. Pahn</i>	Experimental characterization of moisture, temperature and sustained loading on concrete-FRP bond performance <i>S. Dash, Y. Jeong, M.M. Lopez, C.E. Bakis</i>
12:40 - 13:00	GFRP-anchors for concrete slabs with low layer thicknesses <i>F. Hanz, M. Pahn</i>	Experimental verification of the behavior of concrete members with FRP reinforcement exposed to fire <i>D. Horak, M. Zlamal, P. Stepanek</i>
13:00 - 14:20	Lunch	
14:20 - 16:20	Session 3 (Room A) New FRP-based materials, systems and strengthening techniques (2) Chairman: Ashraf Ashour Co-Chairman: Joaquim Barros	Session 4 (Room B) Durability and long term behavior of FRP materials and systems (2) Chairman: Brahim Benmokrane Co-Chairman: Miguel Azenha
14:20 - 14:40	Tensile properties of hybrid basalt FRP tendons <i>X. Wang, N.M. Ali, Z. Wu</i>	Fatigue Life prediction of reinforced concrete structures strengthened with NSM FRP using cohesive model <i>C. Chen, L. Cheng</i>
14:40 - 15:00	Prediction of mechanical behaviour of hybrid FRP by interfacial shear stress transfer <i>N.M. Ali, X. Wang, Z. Wu</i>	Effect of moisture uptake on the shear stiffness of CFRP tendons and the role of the manufacturing route <i>E. Tounpanaki, J.M. Lees, G.P. Terrasi</i>
15:00 - 15:20	Experimental plastic dilatation of concrete columns confined by hybrid FRP sheet and fiber rope <i>T.C. Rousakis, M.E. Gkouma</i>	Fatigue tests on concrete bridge deck with GFRP stay-in-place structural formwork with t-shape ribs <i>P. Richardson, M. Nelson, A. Fam</i>
15:20 - 15:40	Size effect of bi-directional fibre patch anchors used to enhance the performance of FRP laminates <i>R. Kalfat, R. Al-Mahaidi</i>	Time-dependent deflections of normal and high strength concrete beams reinforced with GFRP bars <i>C. Miàs, L. Torres, A. Turon</i>
15:40 - 16:00	Newly developed anchoring element for prestressed frp reinforcement – functionality and design <i>F. Girgile, P. Štěpánek, D. Horák, P. Daněk, V. Kostiha</i>	Behavior of CFRP confined low strength concrete columns under temperature changes <i>B. Erdil, U. Akyüz, İ.Ö. Yaman</i>
16:00 - 16:20	Assessment of the effectiveness of prestressed NSM CFRP laminates for the flexural strengthening of RC beams <i>M. Rezazadeh, I. Costa, J. Barros</i>	Outdoor durability of concrete confined with CFRP <i>T. Tomiyama, I. Nishizaki, P. Labossière, K.W. Neale, M. Demers</i>
16:20 - 16:50	Coffee Break + Poster Session 1	
16:50 - 18:30	Session 5 (Room A) New FRP-based materials, systems and strengthening techniques (3) Chairman: Carlo Pellegrino Co-Chairman: Eduardo Pereira	Session 6 (Room B) Test recommendations for reliable characterization of FRP materials and systems Chairman: Chris Burgoyne Co-Chairman: Isabel Valente



16:50 - 17:10	Flexural performance of shallow reinforced concrete beams strengthened with fiber reinforced geopolymers <i>C. Menna, D. Asprone, C. Ferone, F. Colangelo, A. Balsamo, A. Prota, R. Cioffi, G. Manfredi</i>	A comparison of on-site and elevated temperature cure of an FRP strengthening adhesive <i>D. Othman, T. J. Stratford, L. A. Bisby</i>
17:10 - 17:30	Performance at elevated temperatures of post-cured CFRP strengthened reinforced concrete beams <i>G.W.R. Shier, M.F. Green</i>	Effects of heating on FRP confinement of concrete <i>I. Rickard, L. Bisby, T. Stratford, S. Hulsberg</i>
17:30 - 17:50	Square concrete columns confined by GFRP tube or steel ties <i>A. Abouzied, R. Masmoudi</i>	An improved methodology for tensile tests on fibre reinforced polymer wraps <i>G. Ramesh, R. Gettu, B.H. Bharatkumar</i>
17:50 - 18:10	Eccentrically loaded hybrid reinforced concrete slender columns <i>T.A. Hales, C.P. Pantelides, L.D. Reaveley</i>	Tests of continuous concrete slabs reinforced with basalt fibre reinforced polymer bars <i>M.E.M. Mahroug, A.F. Ashour, D. Lam</i>
18:10 - 18:30	Study on the effects of heat on BFRP versus steel reinforced concrete beams <i>A. Villanueva, S.M.D. Aguiar</i>	Durability of CFRP-laminate strengthening <i>R. Helmerich, B. Milmann, J. Wöstmann, S. Feistkorn</i>
19:30 - 21:30	WELCOME RECEPTION	
Thursday - 27/06/2013		
9:00 - 11:00	Session 7 (Room A) Bond behavior of FRP systems (1) Chairman: Enzo Martinelli Co-Chairman: H. Toutanji	Session 8 (Room B) Reinforcement and strengthening performance of FRP systems (1) Chairman: Amnon Katz Co-Chairman: João R. Correia
9:00 - 9:20	Novel splayed anchorage system for internally reinforced concrete members <i>K.Z. Kostova, T.J. Ibell, A.P. Darby, M.C. Evernden</i>	Mechanical behaviour of ultra high-performance fibrous-concrete beams reinforced by internal FRP bars <i>E. Ferrier, L. Michel, B. Zuber</i>
9:20 - 9:40	Experimental study of the bond behaviour of NSM FRP reinforcements using a modified beam-test <i>D. Cisneros, A. Arteaga, A. De Diego, A. Alzate, R. Perera</i>	Experimental and analytical investigations on the behavior of FRP-reinforced concrete element subjected to pure shear <i>G. Yang, M. Zomorodian, A. Belarbi, A.S. Ayoub, B. Acun</i>
9:40 - 10:00	Evaluation of bond quality at GFRP-concrete interface using infrared images <i>M.M. Caldeira, D.V. Vieira, I. J. Padaratz, R. C. de Apinto</i>	Shear capacity of HPFRC beams flexurally reinforced with steel and prestressed GFRP bars <i>F. Soltanzadeh, H. Mazaheripour, J. Barros, J. Sena-Cruz</i>
10:00 - 10:20	Transversely compressed- and restrained shear joints <i>J.W. Schmidt, C.S. Hansen</i>	Experimental study on the behavior of prestressed concrete beams with internal BFRP reinforcement <i>M. Pearson, T. Donchev</i>
10:20 - 10:40	FEM-based modelling of NSM-FRP bond behavior <i>I.A. Sharaky, J.A.O. Barros, L. Torres</i>	Strength of concrete beams reinforced with GFRP bars <i>A.M.A.J. Teixeira, L.A.V. Carneiro, R.A. Menezes</i>
10:40 - 11:00	Evaluation of code formulations for NSM CFRP bond strength of RC elements <i>M. Coelho, J. Sena-Cruz, S. Dias, T. Miranda</i>	Anchoring behavior of BFRP internal reinforcement at normal and elevated temperatures <i>T. Donchev, K. Krier, D. Petkova</i>
11:00 - 11:20	Coffee Break + Poster Session 2	
11:20 - 13:00	Session 9 (Room A) Bond behavior of FRP systems (2) Chairman: Renata Kotynia Co-Chairman: Claudio Mazzotti	Session 10 (Room B) Reinforcement and strengthening performance of FRP systems (2) Chairman: Stijn Matthys Co-Chairman: Eva Oller
11:20 - 11:40	Bond studies of HSC joints confined with stirrups, steel fibers, or FRP sheets <i>B. Hamad, H. Mallat</i>	Effectiveness of FRP wrapping on internal reinforcement buckling for non-circular concrete members <i>V. Giamundo, G.P. Lignola, A. Prota, G. Manfredi</i>
11:40 - 12:00	Bond behaviour of pre-tensioned CFRP tendons in UHPFRC <i>A. Stark, J. Hegger</i>	Strength prediction of SFRP confined concrete columns <i>K. Abdelrahman, R. El-Hacha</i>
12:00 - 12:20	Flexural retrofitting design for strength and debonding prevention <i>G.X. Guan, C.J. Burgoyne</i>	Experimental evaluation of CFRP wrapping in repairing damaged circular RC columns <i>N. Chikh, A. Laraba, R. Benzaid, H. Mesbah, N. Djebbar</i>
12:20 - 12:40	Determination of debonding fracture energy using wedge-split test <i>G.X. Guan, C.J. Burgoyne</i>	Strengthening slender reinforced concrete columns using longitudinal bonded CFRP laminates <i>P. Sadeghian, A. Fam</i>
12:40 - 13:00	Experimental investigation on the long-term durability of bond between FRP and masonry substrates <i>B. Ghiassi, D.V. Oliveira, P.B. Lourenço</i>	Toward performance-based design of FRP confinement of concrete columns <i>J. Liu, S.A. Sheikh</i>
13:00 - 14:20	Lunch	
14:20 - 16:20	Session 11 (Room A) Reinforcement and strengthening performance of FRP systems (3)	Session 12 (Room B) Reinforcement and strengthening performance of FRP systems (4)



	Chairman: Raafat El-Hacha Co-Chairman: Chris Burgoyne	Chairman: Kent Harries Co-Chairman: Jacob Schmidt
14:20 - 14:40	Punching shear strengthening of reinforced concrete flat slabs with carbon fiber-reinforced polymer reinforcement <i>R. Koppitz, T. Keller, A. Kenel</i>	A parametric study on moment redistribution in FRP-strengthened continuous RC beams <i>A. Tajaddini, T.J. Ibell, A.P. Darby, M. Evernden</i>
14:40 - 15:00	Assessment of the effectiveness of the NSM shear strengthening technique for deep T cross section RC beams <i>J. Barros, S. Dias</i>	Assessment of hybrid EBR-NSMR strengthening technique applicable to RC slabs <i>S.C. Florut, V. Stoian, T. Nagy-György, D. Dan, D. Diaconu</i>
15:00 - 15:20	Retrofitting of concrete T-girders pre-damaged in shear with CFRP composites and mechanical end anchorage <i>T. El-Maaddawy, Y. Chekfeh</i>	Experimental study on flexural capacity of RC beams externally bonded with CFRP strand sheet <i>Y. Takahashi, Y. Sato, A. Kobayashi, M. Arazoe</i>
15:20 - 15:40	End-anchorage systems to prevent EB FRP sheets debonding in shear strengthened RC beams <i>A. Mofidi, O. Chaallal, B. Benmokrane, K.W. Neale</i>	Efficiency of CFRP NSM strips and EBR laminates for flexural strengthening of RC beams <i>A. Balsamo, A. Bilotta, F. Ceroni, E. Nigro, M. Pecce</i>
15:40 - 16:00	Strengthening reinforced concrete beams in shear using mechanically fastened FRP strips <i>M.G. Oliva, L.C. Bank, D. Johnson, T. DuFour</i>	Experimental study on the effect of load distribution on intermediate crack debonding failure of FRP-plated RC beams <i>B. Fu, J.G. Teng, G.M. Chen, J.F. Chen, Y.C. Guo</i>
16:00 - 16:20	Experimentally observed behaviour of CFRP sheet strengthening across a shear plane <i>M. Grusova, T.J. Ibell, A.P. Darby, M. Evernden</i>	Performance evaluation of RC beams strengthened with externally bonded FRP rod <i>K. Iwashita, Z.S. Wu, D. Sato, N. Isogai, Y. Yagi, H. Uchino, M. Yoshida, X. Wang</i>
16:20 - 16:50	<b>Coffee Break + Poster Session 2</b>	
16:50 - 18:30	<b>Session 13 (Room A)</b> <b>Bond behavior of FRP systems (3)</b> Chairman: Lluís Torres Co-Chairman: Emidio Nigro	<b>Session 14 (Room B)</b> <b>Reinforcement and strengthening performance of FRP systems (5)</b> Chairman: Tim Ibell Co-Chairman: Salvador Dias
16:50 - 17:10	Numerical investigation on the effectiveness of FRP in repairing corrosion damaged concrete beams <i>P.K.M. Moniruzzaman, A. Rteil</i>	Behavior of reinforced concrete beams strengthened with CFRP under long-term load action <i>M. Dauquevičius, J. Valivonis</i>
17:10 - 17:30	Prediction of FRP/concrete interface debonding using elasticity theory <i>S. Ueno, H. Toutanji, R. Vuddandam</i>	Static loading tests on reinforced pc girders with pretensioned AFRP sheet by using removable pretensioning device <i>Y. Kurihashi, N. Kishi, H. Mikami</i>
17:30 - 17:50	Experimental and analytical identification of interfacial bond characteristics in adhesively bonded joints <i>S.A. Hadiqeh, R.J. Gravina, S. Setunge</i>	Effects of pretension force and sheet volume on the load-carrying behavior of a flexurally reinforced RC beam with a pretensioned AFRP sheet <i>N. Kishi, Y. Kurihashi, H. Mikami, M. Komuro</i>
17:50 - 18:10	The role of FRP axial stiffness on the concrete bond strength <i>C. Mazzotti</i>	Use of FRP grid for the composite action of concrete sandwich panels <i>J. Soriano, S. Rizkalla</i>
18:10 - 18:30	Bond behavior of the FRCM-concrete interface <i>T. D'Antino, L.H. Sneed, C. Carloni, C. Pellegrino</i>	Mechanical behaviour of ultra high-performance fibrous-concrete wood panels reinforced by FRP bars <i>E. Ferrier, L. Michel</i>
<b>Friday - 28/06/2013</b>		
9:00- 10:20	<b>Session 15 (Room A)</b> <b>Health monitoring through FRP systems and quality control + Field applications of FRP reinforcement: sound and innovative case studies</b> Chairman: Sami Rizkalla Co-Chairman: Amir Fam	<b>Session 16 (Room B)</b> <b>Codes, standards and design guidelines for FRP-based reinforced/strengthened structures (1)</b> Chairman: Luc Taerwe Co-Chairman: Chris Pantelides
9:00 - 9:20	Beam spectral element with FRP debonding <i>E. Seviliano, R. Perera, R. Sun</i>	The third edition of the Concrete Society's Technical Report 55 <i>A. Darby, J. Shave</i>
9:20 - 9:40	Design example of use of FRP pultruded members for electricity transmission Towers <i>A. Godat, F. Legeron, V. Gagné</i>	Analytical truss models for prediction the shear strength of FRP strengthened reinforced concrete members <i>W. Teo, Y. Hor</i>
9:40 - 10:00	Construction and testing of hybrid-reinforced concrete bridge deck slabs: Ste-Catherine overpass twin bridges <i>E. Ahmed, B. Benmokrane</i>	Layout design aspects in externally bonded FRP systems for strengthening of two-way slabs <i>D. Elmalich, O. Rabinovitch</i>
10:00 - 10:20	Filed application of GFRP bars in reinforced concrete water chlorination tank <i>H.M. Mohamed, B. Benmokrane</i>	Shear capacity of FRP reinforced concrete beams <i>A.F. Ashour, I.F. Kara</i>



10:20 - 11:00	<b>Keynote Lecturer 2 (Room A)</b> Stijn Matthys Chairman: Lawrence Bank	
11:00 - 11:20	<b>Coffee Break</b>	
11:20 - 13:00	<b>Session 17 (Room A)</b> <b>Reinforcement and strengthening performance of FRP systems (6)</b> Chairman: Maurizio Guadagnini Co-Chairman: Maria Lopez	<b>Session 18 (Room B)</b> <b>Advanced numerical models and simulations for FRP based reinforced/strengthened structures (1)</b> Chairman: Christian Carloni Co-Chairman: Peter Bischoff
11:20 - 11:40	Blast resistance of FRP sheet and fiber reinforced concrete slabs <i>Y.S. Yoon, K.H. Min, J. Lee, L. Li</i>	Modeling of biaxial bending in RC columns strengthened with externally applied reinforcement in combination with confinement <i>D.A. Bournas, T.C. Triantafillou</i>
11:40 - 12:00	Impact testing of RC round columns built using GFRP tubes as stay-in-place formwork <i>Y. Qasrawi, P.J. Heffernan, A. Fam</i>	Finite element modeling of hybrid MF/EB FRP strengthened RC beams <i>U. Ebead, H. Saeed</i>
12:00 - 12:20	Blast resistance capacity of FRP retrofitted RC panels <i>P.F. Silva, T. Alkhrdaji</i>	Numerical assessment of dapped beam ends retrofitted with FRP composites <i>A.C. Dăescu, T. Nagy-György, B.G. Sas, J.A.O. Barros, C. Popescu</i>
12:20 - 12:40	Splices between external CFRP and internal reinforcing steel <i>P. Keenan, K.A. Harries</i>	Numerical strategies for modelling RC columns confined by means of FRP composites <i>C. Ceccato, T. D'Antino, G. Mazzucco, C. Pellegrino</i>
12:40 - 13:00	Concrete columns reinforced with GFRP and BFRP <i>S.A. Madatyan, A.E. Lapshinov</i>	Contribution to the understanding of the mechanical behaviour of CFRP-strengthened RC beams in fire: experimental and numerical assessment <i>J.P. Firmo, M.R.T. Arruda, J.R. Correia</i>
13:00 - 14:20	<b>Lunch</b>	
14:20 - 16:40	<b>Session 19 (Room A)</b> <b>Codes, standards and design guidelines for FRP-based reinforced/strengthened structures (2)</b> Chairman: Kenneth Neale Co-Chairman: Pedro Silva	<b>Session 20 (Room B)</b> <b>Advanced numerical models and simulations for FRP based reinforced/strengthened structures (2)</b> Chairman: Zhishen Wu Co-Chairman: Mark Green
14:20 - 14:40	Minimum thickness values for deflection control of FRP reinforced concrete <i>S. Veysey, P.H. Bischoff</i>	Investigation of long-span suspension bridge with FRP cables by FE simulation <i>Y. Yang, X. Wang, Z. Wu, G. Wu</i>
14:40 - 15:00	Shear-induced deformation of FRP RC beams <i>F. Yang, M. Guadagnini</i>	Modeling of failure mode of shear strengthened RC beams with FRP sheets based on FE simulation <i>A.M. Sayed, X. Wang, Z. Wu</i>
15:00 - 15:20	Probabilistic models for mechanical properties of prefabricated CFRP <i>S. Gomes, L. Neves, D. Dias-da-Costa, P. Fernandes, E. Júlio</i>	Numerical study on load-carrying behavior of RC beams reinforced with pretensioned AFRP sheet <i>M. Komuro, N. Kishi, Y. Kurihashi, H. Mikami</i>
15:20 - 15:40	From national approval to an European Standard - ways to a safer and wider application of FRP rebars <i>A. Weber</i>	Analytical and numerical studies of mechanically-fastened FRP systems: state-of-the-art <i>A. Napoli, E. Martinelli, R. Realfonzo, F. Matta, L.C. Bank, V.L. Brown</i>
15:40 - 16:00	Shear behavior of concrete beams reinforced with basalt fiber reinforcement polymer (BFRP) bars <i>T. Ovitigala, M.A. Issa</i>	A partial interaction model for prediction of intermediate crack debonding in FRP-reinforced concrete beams under bending <i>A. Razaqpur, A. Mostafa</i>
16:00 - 16:20	Flexural capacity of FRP strengthened unbonded prestressed concrete members: proposed design guidelines <i>F.M. El Meski, M.H. Harajli</i>	Modeling the fire endurance of insulated near surface mounted FRP strengthened beams <i>A. Palmieri, S. Matthys, L. Taerwe</i>
16:20 - 16:40	<b>Coffee Break</b>	
16:40 - 17:20	<b>SC@UM Competition (Room A)</b>	
17:20 - 18:00	<b>Closing ceremony (Room A)</b>	
19:45 - 23:30	<b>BANQUET DINNER</b>	