Detailed Programme of the Symposium

25th October, Sunday

18.00-19.00  Registration, Staszic Palace, Lobby, 1-st floor
19.00       Welcoming Cocktail, Staszic Palace, The Hall Under the Dome, 3-rd floor

26th October, Monday

08.00-08.45  Registration, Staszic Palace, Lobby, 1-st floor
08.45-09.00  Official Opening of the Symposium, The Mirror Hall (Sala Lustrzana)

chair Andrzej M. Brandt and Jan Olek

09.00-09.45  Keynote Lecture
Retrofit of shear strength deficient RC beams with sprayed GFRP
Andrew J. BOYD, Nemkumar BANTHIA, Sidney MINDESS, Canada

09.45-11.00  Session 1. Construction problems in elements subjected to bending
Study on the flexural behaviour of reinforced fibrous concrete beams
Rashid HAMEED, Anaclet TURATSINZE, Frédéric DUPRAT, Alain SELLIER, France

Round panel vs. beam tests toward a comprehensive and harmonic characterization of FRC materials
Fausto MINELLI, Giovanni A. PLIZZARI, Italy

The influence of steel fibres content and curing conditions on mechanical properties and deformability of reactive powder concrete at bending
Tomasz ZDEB, Jacek ŚLIWINSKI, Poland

11.00-11.30  Coffee break

11.30-13.10  Session 2. Fibrous cement based composites (1)
Interface bond characteristics between wood fibres and a cement matrix
Mercedes G. SIERRA BELTRAN, Erik SCHLANGEN, The Netherlands

Shear strength and ductility of beams reinforced with synthetic macro-fibers
Salah ALTOUBAT, Samer BARAKAT, Yazdanbakhsh ARDAVAN, Klaus-Alexander RIEDER, UAE, USA, Germany

The impact of amount and length of fibrillated polypropylene fibres on the properties of HPC exposed to high temperature
Izabela HAGER and Tomasz TRACZ, Poland
Assessment by law of mixtures approach of interfacial adhesion strength in cellulose-cement composites
Conrado S. RODRIGUES, Piet STROEVEN, Khosrow GHAVAMI, Brazil, The Netherlands

13.10-14.30 Lunch break

14.30-15.50 Session 3: Fibrous cement based composites (2)

Tensile fatigue response of Sisal Fiber Reinforced Cement Composites
Flavio de Andrade SILVA, Barzin MOBASHER and Romildo D. TOLEDO FILHO, Brazil, USA

Investigation on the strength and flexural toughness of hybrid fibre reinforced concrete
Surinder Pal SINGH, India

Textile reinforced concrete - durability issues: changes of the bond and tensile strength due to ageing
Till BÜTTNER, Jeanette ORLOWSKY and Michael RAUPACH, Germany

Impact study of textile reinforced cementitious materials: test method and preliminary results

15.50-16.20 Tea break

16.20-17.20 Session 4: Fibrous cement based composites (3)

The ductile behavior of HPFRCC in compression
Alessandro P. FANTILLI, Hirozo MIHASHI, Paolo VALLINI, Bernardino CHIAIA, Italy, Japan

Investigation on random distribution of fibres in cement composites
Tomasz PONIKIEWSKI, Poland

84 Permeability of SFRCC based on fine aggregate after pre-load cycles
Jacek KATZER, Poland

19.00 Symposium Dinner in the Restaurant Przy Trakcie Restauracja Polska
Królewskas Street 2, entrance from Krakowskie Przedmieście

27th October, Tuesday, Staszic Palace, 1-st floor, The Mirror Hall (Sala Lustrzana)

09.00-09.45 Keynote Lecture
Statistical optimization of low slump ternary concrete mixtures with ground granulated blast furnace slag (GGBS) and high calcium fly ash for pavement applications
Adam RUDY, Jan OLEK, Tommy NANTUNG, Richard M. NEWELL, USA
09.45-11.00   Session 5. Properties of concrete with mineral additives

Durability performance of Roller Compacted Concrete using fly ash
Jong-Pil WON, Chang-II JANG, Joon-Mo KIM, Wan-Young KIM, Republic of Korea

Analysis of the influence of the type, amount and the introduction way of anti-foaming admixture (AFA) on the properties of self-compacting concrete mix
Beata ŁAŹNIEWSKA-PIEKARCZYK, Poland

Model of concrete carbonation as limitable process – experimental investigations of fluidal ash concrete
Lech CZARNECKI, Piotr WOYCIECHOWSKI Poland

11.00-11.30   Coffee break

11.30-13.10   Session 6. Properties of ceramics

Modification of mineral binding matrixes carbon nanostructures
Grigory I. YAKOVLEV, Grigory N. PERVUSHIN, Jadviga K. KERIENE, Hans-Bertram FISCHER, Bernd MÖSER, Russia, Lithuania, Germany

Mechanical-acoustic and structural study of degradation processes in corundum ceramics and aluminous porcelain
Przemysław RANACHOWSKI, Zbigniew RANACHOWSKI, Feliks REJMUND, Poland

T-stress values during fracture in wedge splitting test geometries: A numerical study
Stanislav SEITL, Pavel HUTAŘ, Václav VESELÝ, Zbyněk KERŠNER, Czech Republic

How to get reliable 3D information on concrete porosity?
Piet STROEVEN, The Netherlands

13.10-14.30   Lunch break

14.30-15.50   Session 7. Structure and properties of concrete

Investigation of bond strength and flexural behavior of FRP strengthened beams using cement-based adhesives
Siavash HASHEMI and Riadh AL-MAHAIDI, Australia

Application of machine learning for prediction of concrete resistance to migration of chlorides
Maria MARKS, Daria JÓŹWIAK-NIEDŹWIEDZKA, MICHAŁ A. GLINICKI, Poland

Carbon spheres as possible micro-reinforcement of cement-based composites
Jan M. SKOWROŃSKI , Agnieszka ŚLOSARCZYK, Poland

109 Properties of fiber reinforced cement composites with cenospheres from coal ash
Waldemar PICHÓR, Poland
15.50-16.20  Tea break

19.00  Museum of Polish Army, visit and reception
        Al. Jerozolimskie 3

28th October, Wednesday,  Staszic Palace, 1-st floor, The Mirror Hall (Sala Lustrzana)

09.00-09.45  Keynote Lecture
              Enhanced durability of concrete by superabsorbent polymers
              Hans W. REINHARDT, Alexander ASSMANN, Germany

09.45-11.00  Session 9. Durability and degradation in concrete
              Volumetric stability of concrete using recycled concrete aggregates
              Yogini DESHPANDE, Jacob E. HILLER, Cory J. SHORKEY, USA

              Damage assessment in sections for durability purposes: two arguments not to opt for automation
              Piet STROEVEN, Huan HE, Martijn STROEVEN, The Netherlands

              The effects of laser cleaning process on geometrical microstructure of cementitious composites
              Agnieszka KLEMM, Poologanathan SANJEEVAN, Piotr KLEMM, UK, Poland

11.00-11.30  Coffee break

              Assessing the repeatability of the restrained ring test
              Aleksandra RADLINSKA, Jason WEISS, USA

              Performance evaluation of rapid-setting materials for concrete pavements/bridge decks repairs: laboratory and a field perspectives
              Prashant V. RAM, Jan OLEK, USA

              The effect of temperature on the rheological properties of self - compacting concrete
              Jacek GOŁASZEWSKI, Grzegorz CYGAN, Poland

              Assessment of the rheological properties of cement mixes using electrical resistance
              Dominik LOGOŃ, Poland

13.10-14.30  Lunch break

14.30-15.50  Session 11. Microstructure and mechanical properties of concrete (1)
              Experimental techniques for multi-scale characterization of mechanical response in cement-based materials
              Joseph J. BIERNACKI, USA
Influence of hydrothermal curing on microstructure and mechanical properties of ultra-high performance concrete
Patrick FONTANA, Christian LEHMANN, Urs MÜLLER, Germany

Patches in concrete: recent experimental discovery of a natural phenomenon - supporting evidence by DEM
Piet STROEVEN and Huan HE, The Netherlands

The influence of aggregate size on the width of fracture process zone in concrete members
Marta SŁOWIK and Ewa BŁAZIK-BOROWA, Poland

15.50-16.20  Tea break

16.20-17.00  Session 13. Round Table discussion and closure
  chair Andrzej M. Brandt and Jan Olek

19.00  Closing Banquet in the Restaurant SENATOR
       Old Town, Szeroki Dunaj Street 1/3