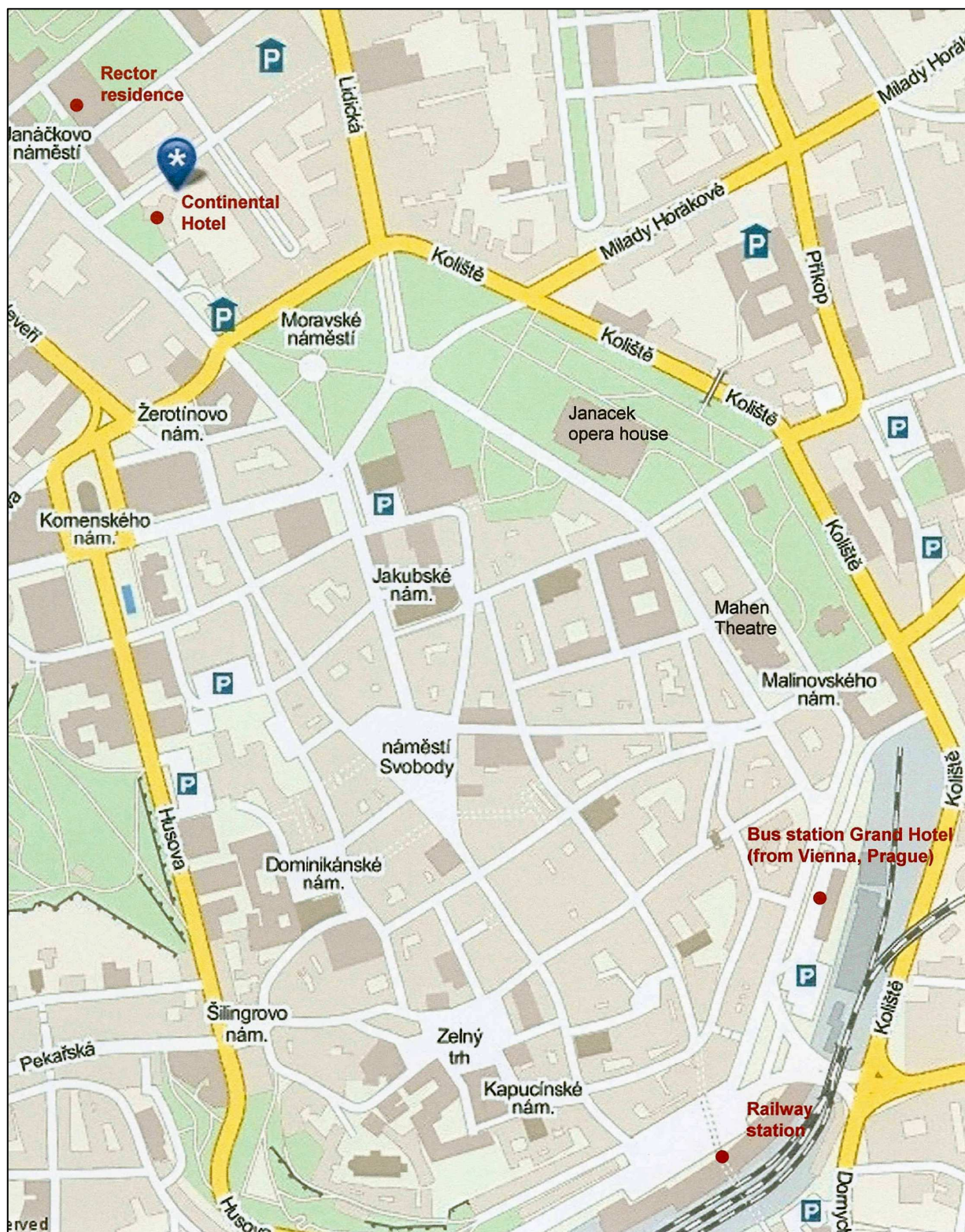


FINAL PROGRAMME OF 5th NTCC CONFERENCE

Monday, June 16th

17:00–20:00 Registration and Welcome Cocktail
Continental Hotel Brno, Kounicova 6, 602 00 Brno



Tuesday, June 17th

8:00	Registration
9:00	Introduction of 5th NTCC Conference
	<i>Chairperson: N. DE BELIE, Belgium</i>
9:20	H. Y. GHORAB et al., Egypt THE SUITABILITY OF PORTLAND LIMESTONE CEMENT FOR USE IN CONSTRUCTION APPLICATIONS IN EGYPT
9:40	I. JANOTKA, L. KRAJCI, P. UHLIK, M. BACUVCIK, Slovakia NATURAL AND CALCINED CLAYEY DIATOMITE AS CEMENT SUBSTITUTIONS: MICROSTRUCTURE AND PORE STRUCTURE STUDY
10:00	H. JUSTNES, Norway DESIGNING ALTERNATIVE BINDERS UTILIZING SYNERGIC REACTIONS
10:20	Coffee break
	<i>Chairperson: H. JUSTNES, Norway</i>
11:00	H. S. ABDELGADER, A. S. EL-BADEN, Libya INVESTIGATIONS ON SOME PROPERTIES OF TWO-STAGE (PRE-PLACED AGGREGATE) CONCRETE
11:20	I. GARCÍA-LODEIRO, A. PALOMO, A. FERNÁNDEZ-JIMÉNEZ, Spain HYBRID ALKALINE CEMENTS: HYDRATION KINETICS STUDY DURING THE EARLY REACTION STAGES
11:40	P. KRIVENKO, H. CAO, O. PETROPAVLOVSKY, L. WENG, V. PUSHKAR, Ukraine, China EFFECT OF TECHNOLOGY OF MANUFACTURING THE ALKALI ACTIVATED CEMENT CONCRETES: POROUS STRUCTURE AND FROST RESISTANCE
12:00	P. TRTIK et al., Czech Republic PATCHY MICROSTRUCTURE OF CEMENT PASTE INVESTIGATED BY NEUTRON AND SYNCHROTRON X-RAY TOMOGRAPHY
12:20	Lunch
Section A	
	<i>Chairperson: B. VARELA, U.S.A.</i>
14:00	B. WALKLEY, J. L. PROVIS, S. N. RACKEL, J. S. J. VAN DEVENTER, Australia, United Kingdom STRUCTURAL ANALYSIS OF BIPHASIC STOICHIOMETRICALLY CONTROLLED GEOPOLYMERS
14:20	A. CASTEL, S. FOSTER, Australia TIME-DEPENDENT BEHAVIOUR OF A CLASS F FLY ASH-BASED GEOPOLYMER CONCRETE
14:40	R. DIRGANTARA, D. W. LAW, T. K. MOLYNEAUX, Australia, Indonesia DURABILITY OF BROWN COAL FLY ASH GEOPOLYMER CONCRETE
15:00	Coffee break
	<i>Chairperson: N. RAKHIMOVA, Russia</i>
15:30	V. GONZALEZ, B. VARELA, J. VOELKEL, USA AN INVESTIGATION INTO THE FACTORS AFFECTING THE SETTING TIME AND COMPRESSIVE STRENGTH OF ALKALI-ACTIVATED SLAG BINDERS REINFORCED WITH WOLLASTONITE
15:50	A. WALDRON, B. VARELA, USA EXPERIMENTAL INVESTIGATION OF MICRO-REINFORCED ALKALI-ACTIVATED GROUND GRANULATED BLAST FURNACE SLAG WITH WOLLASTONITE
16:10	P. SANTIZO, A. WALDRON, B. VARELA, USA OPTIMIZATION OF ALKALI ACTIVATION OF GROUND GRANULATED SLAG WITH MINE TAILINGS
Section B	
	<i>Chairperson: P. TRTÍK, Switzerland</i>
14:00	K. SCHOLLBACH, H. POELLMANN, The Netherlands, Germany THE INFLUENCE OF MAGNESIUM OXIDE REACTIVITY ON THE HYDRATION BEHAVIOUR OF MAGNESIA CEMENT
14:20	M. DE SCHEPPER, E.C. ARVANITI, K. DE BUYSSER, I. VAN DRIESSCHE, N. DE BELIE, Belgium SULPHATES IN COMPLETELY RECYCLABLE CONCRETE AND THEIR EFFECT ON CLINKER...
14:40	M. DE SCHEPPER, K. DE BUYSSER, I. VAN DRIESSCHE, N. DE BELIE, Belgium A HYDRATION STUDY BY XRD/RIETVELD ANALYSIS OF CEMENT REGENERATED FROM COMPLETELY RECYCLABLE CONCRETE
15:00	Coffee break
	<i>Chairperson: H. S. ABDELGADER, Libya</i>
15:30	D. BARBIR, P. DABIĆ, A. LISICA, Croatia ASSESSMENT OF THE LEACHABILITY AND MECHANICAL STABILITY OF ELECTROPLATING WASTE AND WASTE ZEOLITE BINDING WITH PORTLAND CEMENT
15:50	P. SILER, P. BAYER, T. SEHNAL, I. KOLAROVA, T. OPRAVIL, F. SOUKAL, Czech Republic EFFECTS OF HIGH-TEMPERATURE AND FLUIDIZED BED COMBUSTION ASHES ON THE HYDRATION OF PORTLAND CEMENT
16:10	Í. LARRAZA, I. DEL VAL, A. MARSEGLIA, G. GIODICE, J. VERA-AGULLO, Spain GREEN CAST: DEMONSTRATION OF INNOVATIVE LIGHTWEIGHT CONSTRUCTION COMPONENTS MADE OF RECYCLED ASHES FOR SUSTAINABLE BUILDINGS
17:00	Departure to Valtice castle and wine cellar

Wednesday, June 18th**Section A**

	Chairperson: A. FERNÁNDEZ-JIMÉNEZ, Spain
9:00	P. KRIVENKO, O. KOVALCHUK, V. GRABOVCHAK, S. BONDARENKO, Ukraine THE WATER TRANSPORT OF Na ⁺ -IONS IN ALKALI ACTIVATED FLY ASH CEMENT STONE
9:20	D. BAJARE, G. BUMANIS, Latvia ALKALI DIFFUSION IN POROUS ALKALI ACTIVATED MATERIALS
9:40	S. GREISER, G. J. G. GLUTH, P. STURM, H. J. H. BROUWERS, CH. JÄGER, Germany, The Netherlands ¹ H- ²⁷ Al, ²⁷ Al- ¹ H AND ²⁷ Al- ²⁹ Si DOUBLE RESONANCE NMR OF ONE-PART GEOPOLYMERS
10:00	I. LANCELLOTTI, CH. PONZONI, L. BARBIERI, C. LEONELLI, Italy SUSTAINABLE UNCONVENTIONAL ALUMINOSILICATE PRECURSORS FOR GEOPOLYMERS
10:20	Coffee break
	Chairperson: P. V. KRIVENKO, Ukraine
11:00	A. BALAGUER PASCUAL, M. TOHOUE TOGNONVI, A. TAGNIT-HAMOU, Canada WASTE GLASS POWDER-BASED ALKALI-ACTIVATED CONCRETE
11:20	M. TORRES-CARRASCO, M. T. TOGNONVI, A. TAGNIT-HAMOU, F. PUERTAS, Spain, Canada RE-USE OF WASTE GLASS IN THE PREPARATION OF ALKALI-ACTIVATED SLAG CEMENTS AND CONCRETES. MECHANICAL BEHAVIOUR AND DURABILITY
11:40	I. PAPAYIANNI, S. KONOPISSI, K. DATSIU, F. KESEKIDOU, Greece PRODUCTS OF ALKALI-ACTIVATED CALCAREOUS FLY ASH AND GLASS CULLET
12:00	Ł. GOŁEK, E. KAPELUSZNA, Poland ALKALI ACTIVATION OF MANTICELLITE GLASS – CaO-MgO-SiO ₂ SYSTEM
12:20	Lunch
	Chairperson: F. PUERTAS, Spain
14:00	M. KOMLJENOVIC, Z. BAŠČAREVIĆ, N. MARJANOVIĆ, V. NIKOLIĆ, Serbia ALKALI-ACTIVATED SYSTEMS – DURABILITY ASPECTS AND TESTING PROCEDURES
14:20	R. POUHET, M. CYR, France ALKALI-AGGREGATE REACTION IN METAKAOLIN BASED GEOPOLYMER MORTAR
14:40	C. VARGA, M. M. ALONSO, J. MEJÍA, R. MEJÍA DE GUTIERREZ, F. PUERTAS, Spain, Colombia DECALCIFICATION PROCESS IN ALKALI ACTIVATED SLAG PASTES. INFLUENCE OF CHEMICAL COMPOSITION OF THE SLAGS
15:00	Coffee break
	Chairperson: M. KOMLJENOVIC, Serbia
15:30	P. KRIVENKO, S. GUZIL, V. KIRITCHOK, Ukraine GEOCEMENT-BASED COATINGS FOR PROTECTION OF CONCRETE FROM EXPOSURE OF SULPHATE SALTS
15:50	G. J. G. GLUTH, C. LEHMANN, K. RÜBNER, H.-C. KÜHNE, Germany INFLUENCE OF SODIUM CONCENTRATION OF THE ACTIVATING SOLUTION ON THE HYDRATION OF CALCIUM-CARBONATE-RICH WASTEPAPER SLUDGE ASH
16:10	P. K. SARKER, K. V. RAMGOLAM, Australia EFFECT OF LOADING RATE ON THE FRACTURE ENERGY OF GEOPOLYMER CONCRETE
17:00	Departure of buses for concert in the Katerinska cave; Dinner. Please remember that temperature in the cave is 9°C only!

Wednesday, June 18th

Section B

	<i>Chairperson: H. Y. GHORAB, Egypt</i>
9:00	C. M. G. DE SOUZA, S. GREISER, E. GARCIA, V. A. QUARCIONI, CH. JÄGER, Brazil, Germany EVALUATION OF POZZOLANIC REACTIVITY OF CALCINED KAOLINITE
9:20	Ł. GOŁEK, J. DEJA, Poland THE INFLUENCE OF THE GLASS CULLET ADDITION ON THE PROPERTIES OF MORTARS
9:40	M. V. A. FLOREA, H. J. H. BROUWERS, The Netherlands APPLICATION OF BOTTOM ASH FINES IN MORTARS
10:00	I. MERTA, Austria HEMP FIBRE REINFORCED FOAM CONCRETE: DISCUSSION OF THE WEDGE SPLITTING TEST METHOD
10:20	Coffee break
	<i>Chairperson: W. KURDOWSKI, Poland</i>
11:00	M. SERDAR, I. BILJECKI, D. BJEGOVIĆ, Croatia HIGH-PERFORMANCE CONCRETE WITH HIGH VOLUME OF INDUSTRIAL BY-PRODUCTS
11:20	J. GOŁASZEWSKI, G. CYGAN, M. DREWNIOK, A. KILIJANEK, Poland RHEOLOGICAL PROPERTIES OF SCC IN TERMS OF ITS THIXOTROPIC BEHAVIOUR AND ITS INFLUENCE ON FORMWORK PRESSURE
11:40	M. BATOĞ, T. PUŻAK, Poland SCC WITH CEM II/A-S 52,5N AND HIGH FLY ASH ADDITION IN PRECAST ELEMENTS PRODUCTION
12:00	Z. GIERGICZNY, D. DZIUK, T. PUŻAK, M. BATOĞ, Poland PRACTICAL USE OF CALCAREOUS FLY ASH IN PORTLAND-COMPOSITE CEMENT CEM II/B-M (V-W) 32,5R INDUSTRIAL PRODUCTION
12:20	Lunch
	<i>Chairperson: I. JANOTKA, Slovakia</i>
14:00	M. IGUCHI, H. FUJIWARA, M. MARUOKA, N. HOSHIYAMA, Japan DEVELOPMENT OF ULTRA HIGH STRENGTH FIBER REINFORCED CONCRETE PRODUCED AT NORMAL TEMPERATURE
14:20	R. YU, P. SPIESZ, H. J. H. BROUWERS, The Netherlands IMPACT RESISTANCE CAPACITY OF THE ULTRA-HIGH PERFORMANCE HYBRID FIBRE REINFORCED CONCRETE (UHPHFR): EXPERIMENTAL AND MODELING STUDY
14:40	K. SHAFIEI, B. HILLEMEIER, Germany FEASIBILITY OF PLASMA TECHNOLOGY UTILIZATION IN CONCRETE INDUSTRY
15:00	Coffee break
	<i>Chairperson: P.-C. AİTCIN, Canada</i>
15:30	J. PAWLUK, W. KURDOWSKI, Poland THE PROBLEM OF DURABILITY OF THE SLEEPERS FROM PRESTRESSED CONCRETE
15:50	T. FUJII, T. AYANO, Japan FREEZING AND THAWING RESISTANCE OF CONCRETE WITH BLAST FURNACE SLAG
16:10	G. FERRARI, M. MIYAMOTO, A. FERRARI, K. YODA, Italy/Japan PERFORMANCE AND DURABILITY OF SUSTAINABLE CONCRETE MADE WITH AGGREGATES PRODUCED FROM RETURNED CONCRETE
17:00	Departure of buses for concert in the Katerinska cave; Dinner. Please remember that temperature in the cave is 9°C only!

Thursday, June 19th**Section A**

	Chairperson: A. PALOMO, Spain
9:00	A. FERNÁNDEZ-JIMÉNEZ, O. MALTSEVA, A. PALOMO, Spain CHARACTERISATION OF AN INDUSTRIAL HYBRID CEMENT
9:20	M. J. SÁNCHEZ-HERRERO, A. FERNÁNDEZ-JIMÉNEZ, A. PALOMO, Spain ALKALINE HYDRATION OF TRICALCIUM ALUMINATE AND CALCIUM SULPHOALUMINATE
9:40	P. STURM, G. J. G. GLUTH, W. SCHMIDT, A. ASTORG, H.-C. KÜHNE, H. J. H. BROUWERS, Germany, The Netherlands RHEOLOGICAL PROPERTIES OF MICROSILICA AND SODIUM ALUMINATE BASED ONE-PART GEOPOLYMERS COMPARED WITH ORDINARY PORTLAND CEMENT
10:00	N. R. RAKHIMOVA, R. Z. RAKHIMOV, Russia HYDRATED CEMENT AS AN ADMIXTURE TO ALKALI-ACTIVATED SLAG CEMENT
10:20	Coffee break
	Chairperson: V. BILEK, Czech Republic
11:00	C. COSTA, C. FERREIRA, Portugal ALKALI-ACTIVATED BINDERS PRODUCED FROM PETROCHEMICAL FLUID CATALYTIC CRACKING CATALYST WASTE
11:20	J. DRAGAŠ, S. MARINKOVIĆ, I. IGNJATOVIĆ, N. TOŠIĆ, Serbia CONCRETE BASED ON ALKALI ACTIVATED FLY ASH FROM ONE POWER PLANT IN SERBIA
11:40	J. KOPLÍK, L. KALINA, J. MÁŠILKO, F. ŠOUKAL, Czech Republic FIXATION OF HEAVY METALS IN ALKALI-ACTIVATED ALUMINO-SILICATE MATRICES
12:00	S. SEITL, BILEK V., Z. KERSNER, Czech Republic FATIGUE BEHAVIOUR OF ALKALI-ACTIVATED CONCRETE
12:20	Closing of 5th NTCC Conference, Lunch
	Section B
	Chairperson: S. SEITL, Czech Republic
9:00	C. STRAUB, G. QUERCIA, H. J. H. BROUWERS, The Netherlands SLUMP FLOW OF AUTOCLAVED AERATED CONCRETE SLURRIES
9:20	D. LOGON, Poland THE LOAD-DEFLECTION CONTROL IN POLYMER CONCRETE
9:40	N. STEVULOVA, J. CIGASOVA, L. KIDALOVA, E. TERPAKOVA, J. JUNAK, Slovakia BIOCOMPOSITES BASED ON HEMP HURDS
10:00	M. T. PALOU, M. BOHÁČ, M. KULIFFAYOVÁ, F. FRAJKOROVÁ, T. IFKA, Slovakia HYDRATION AND PROPERTIES OF CEMENTITIOUS MATERIALS CURED UNDER DIFFERENT HYDROTHERMAL CONDITIONS
10:20	Coffee break

POSTERS

T. ARENDS, A. TAHER, A. J. J VAN DER ZANDEN, H. J. H. BROUWERS, The Netherlands
A MODEL DESCRIBING WATER AND SALT MIGRATION IN CONCRETE DURING WETTING/DRYING CYCLES

G. C. H. DOUDART DE LA GRÉE, Q. L. YU, H. J. H. BROUWERS, The Netherlands
WOOD-WOOL CEMENT BOARDS: A STATE OF THE ART REVIEW

V. ELFMARKOVA, P. SPIESZ, H. J. H. BROUWERS, The Netherlands
DETERMINATION OF THE CHLORIDE DIFFUSION COEFFICIENT DRCM FOR OPC, GGBS, FA AND SF MORTARS

X. GAO, R. YUL, H. J. H. BROUWERS, Z. H. SHUI, The Netherlands, China
ALKALI ACTIVATION OF METAKAOLIN BLENDED WITH SLAG AND LIMESTONE POWDER

A. LAZARO, G. QUERCIA, H. J. H. BROUWERS, The Netherlands
SYNTHESIS OF NANO-SILICA AT LOW TEMPERATURES AND ITS APPLICATION IN CONCRETE

S. LORENCIK, Q. L. YU, H. J. H. BROUWERS, The Netherlands
DEVELOPMENT OF A PHOTOCATALYTIC CONCRETE FOR AIR QUALITY IMPROVEMENT BY IMMOBILIZATION OF VISIBLE LIGHT RESPONSIVE PHOTOCATALYST

A. L. KRISHAN, M. A. KRISHAN, E. A. TROSHKINA, Russia
THE CALCULATION OF STRENGTH OF CONCRETE FILLED STEEL TUBE COLUMNS OF SQUARE CROSS SECTION

P. ROVNANIK, P. BAYER, L. TOPOLAR, P. SCHMID, Z. KERSNER, Czech Republic
EFFECT OF CARBON NANOTUBES ON THE FRACTURE MECHANICAL PROPERTIES OF ALKALI ACTIVATED SLAG MORTARS

Š. ŠACHLOVÁ, Z. PERTOLD, A. ŠŤASTNÁ, Czech Republic
FACTORS AFFECTING DEF AND ASR IN CONCRETE DAM VRANÉ NAD VLTAVOU

H. ŠÁCHOVÁ, P. HUŇKA, Czech Republic
MIX DESIGN OF HVFAC IN CZECH REPUBLIC – PROBLEMS AND SOLUTIONS

P. SPIESZ, P. BULUK, Q.L. YU, H.J.H. BROUWERS, Poland, The Netherlands
ENHANCED AIR POLLUTANT REMOVAL EFFICIENCY OF PHOTOCATALYTIC CONCRETE WITH WASTE GLASS

A. TAHER, J. M. HOFSTEDE, A. J. J VAN DER ZANDEN, H. J. H. BROUWERS, The Netherlands
THE INFLUENCE OF AIR IN MORTAR ON THE RESULTS OF THE RCM-TEST

P. TANG, M. V. A. FLOREA, P. SPIESZ, H. J. H. BROUWERS, The Netherlands
THE APPLICATION OF TREATED MSWI BOTTOM ASH AS BINDER AND ITS EFFECTS ON THE DURABILITY OF MORTAR

M. VYSVARIL, M. CHROMA, P. BAYER, Czech Republic
THE EFFECT OF WATER/CEMENT RATIO ON THE SULFATE CORROSION OF FINE GRAINED CONCRETE

B. YUAN, Q. L. YU, H. J. H. BROUWERS, The Netherlands
INVESTIGATION ON THE ACTIVATING EFFECT OF Na_2CO_3 AND NaOH ON SLAG

P. M. F. VAN DE WOUW, G. C. H. DOUDART DE LA GRÉE, M. V. A. FLOREA, H. J. H. BROUWERS, The Netherlands
UTILIZATION OF RECYCLED CONCRETE AGGREGATES IN STRUCTURAL CONCRETE BY APPLYING A FRACTION PARTITIONING MODEL