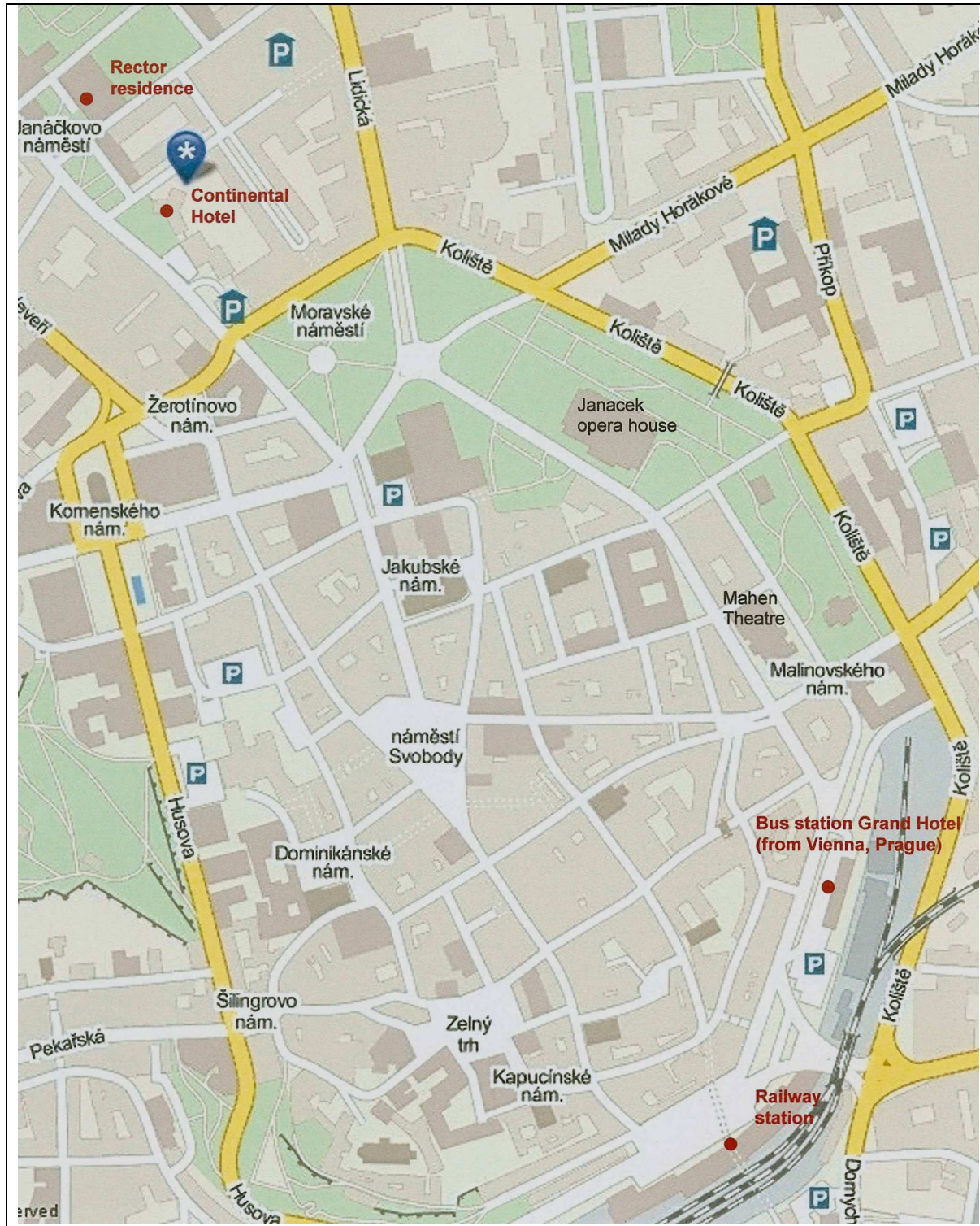


FINAL PROGRAMME OF 4th NTCC CONFERENCE

Monday, June 27th

18:00–20:00 Registration and Welcome Cocktail (Hotel Continental Brno)



| Tuesday, June 28th | |
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| 8:00 | Registration |
| 10:00 | Introduction of 4th NTCC Conference |
| | Chairperson: P. Rovnanik, Czech Republic |
| 10:20 | Komljenović, M., Baščarević, Z., Nikolić, V., <i>Serbia</i> DEVELOPMENT OF FLY ASH-BASED GEOPOLYMER MICROSTRUCTURE AT ROOM TEMPERATURE |
| 10:40 | Habert, G., d'Espinose de Lacaillerie, J.B., Roussel, N. <i>France</i> AN ENVIRONMENTAL EVALUATION OF GEOPOLYMER BASED CONCRETE PRODUCTION: REVIEWING CURRENT RESEARCH TRENDS |
| 11:00 | Steinerová, M., <i>Czech Republic</i> MECHANICAL PROPERTIES OF GEOPOLYMER MORTARS IN RELATION TO THEIR STRUCTURE AND AMOUNT OF GEL-FORMING COMPONENTS |
| 11:20 | Arioz, O., Kilinc, K., Tuncan, M., Tuncan, A., Kavas, T., <i>Turkey</i> UTILISATION OF FLY ASH IN GEOBRICKS PRODUCED BY PRESSURE FORMING PROCESS |
| 11:40 | Rakhimova, N., <i>Russia</i> INVESTIGATIONS ON THE PHASE COMPOSITION AND STRUCTURE, STRUCTURE MODELING OF THE STONE ON THE BASE OF THE COMPOSITIONAL SLAG-ALKALINE BINDING WITH ADDING AS A CERAMIC BRICKS BREAKAGE |
| 12:00 | Lunch |
| | Chairperson: N. Rakhimova, Russia |
| 14:00 | Turchin, V., Yudina, L., <i>Russia</i> SLAG ALKALINE COMPOSITION FOR BUILDING STRUCTURES |
| 14:20 | Rahier, H., Esaifan, M., Wastiels, J., Slatyi, F., Aldabsheh, I., Khoury H., <i>Belgium, Jordan</i> ALKALI ACTIVATION OF KAOLINITE FOR PRODUCTION OF BRICKS AND TILES |
| 14:40 | Kong, D.L.Y.; Sanjayan, J.G., <i>Australia</i> BEHAVIOR OF GEOPOLYMER CONCRETE SUBJECTED TO HYDROCARBON FIRE |
| 15:00 | Rovnaník, P., <i>Czech Republic</i> FLY ASH GEOPOLYMER AFTER EXPOSURE TO ELEVATED TEMPERATURE: MECHANICAL PROPERTIES AND MICROSTRUCTURE |
| 15:20 | Frybortová, I., Rovnaník, P., <i>Czech Republic</i> THERMAL RESISTANCE OF ALKALI ACTIVATED BLAST FURNACE SLAG COMPOSITE WITH CHAMOTTE AGGREGATE |
| 15:40 | Coffee break |
| | Chairperson: M.A. Glinicki, Poland |
| 16:10 | Podrouzek, J., Vorechovska, D., Teply, B., <i>Czech Republic</i> NEIGHBOURHOOD MODELLING OF HEAT TRANSFER IN CONCRETE |
| 16:30 | Hernández, A., Torres, N., Quiroga, P., <i>Colombia</i> IMPEDANCE SPECTROSCOPY AS A NOVEL METHOD TO CORRELATE MECHANICAL PROPERTIES OF CONCRETE WITH DIFFERENT ADDITIONS |
| 16:50 | Logoń, D., <i>Poland</i> QUALITY CONTROL OF CEMENT MIXES USING CUBE FLOW AND ELECTRICAL RESISTANCE TESTS |
| 17:10 | Kilinc, K., Celik, A.O., Tuncan, M., Tuncan, A., Arioz, O. <i>Turkey</i> DETERMINATION OF CONCRETE STRENGTH BY USING SMALL DIAMETER CORES AND MICROCORES |
| 18:30-20:30 | Concert and party in the B.U.T. Rector's residence, Antoninska 1, (100 m from Continental Hotel). |

| Wednesday, June 29th | |
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| | Chairperson: D. Bjegovic, Croatia |
| 9:00 | E. Grunayert, E., De Belie, N., <i>Belgium</i> HYDRATION DEGREE OF CEMENT AND SLAG IN SLAG BLENDED CEMENT PASTES |
| 9:20 | Łazniewska-Piekarczyk, B., <i>Poland</i> INFLUENCE OF ANTI-FOAMING ADMIXTURE ON POROSITY CHARACTERISTIC OF SELF-COMPACTING CONCRETE AFFECTING ITS FROST-RESISTANCE AND COMPRESSIVE STRENGTH |
| 9:40 | S. Grzeszczyk, S., Skaliński, B., <i>Poland</i> THE INFLUENCE OF ANTI-WASHOUT ADMIXTURES ON THE PROPERTIES OF SELF-FLOWING UNDERWATER CONCRETE MIXTURE |
| 10:00 | Kashcheeva S.A., Garkavi M.S., Sinkevich I.S. <i>Russia</i> THE PRODUCTION OF REDUCED WATER REQUIREMENT CEMENTS IN CENTRIFUGAL IMPACT MILLS |
| 10:20 | Coffee break |
| | Chairperson: I. Janotka, Slovakia |
| 11:00 | Gołaszewski, J., Ponikiewski, T., Kostrzanowka, <i>Poland</i> INFLUENCE OF HIGH – CALCIUM FLY ASHES ON RHEOLOGICAL PROPERTIES OF FRESH MORTAR |
| 11:20 | Gibas, K., Glinicki, M.A., <i>Poland</i> INFLUENCE OF HIGH-CALCIUM FLY ASHES ON THE CHLORIDE ION PENETRATION INTO CONCRETE |
| 11:40 | Giergiczny, Z., Pużak, T., Sokołowski, M., Dziuk, D., <i>Poland</i> THE INFLUENCE OF GRINDING ON THE EFFICIENCY OF MINERAL ADDITIVES IN THE COMPOSITION OF CEMENT AND CONCRETE |
| 12:00 | Palou, M., Ifka, T., <i>Slovakia</i> INFLUENCE OF PARTICLE SIZE OF CLINKER MINERALS UPON THE HYDRATION OF SULPHOALUMINATE BELITE CEMENTS |
| 12:20 | Lunch |
| | Chairperson: H. Ghorab, Egypt |
| 14:00 | Ghorab, H.Y., Ahmed, H.E.H., Tawfik, A. <i>Egypt</i> THE PRODUCTION OF METAKAOLIN AS CEMENT REPLACEMENT MATERIAL IN EGYPT |
| 14:20 | Shabalina E. A., Yakovlev G. I., Pervushin G.N., Drochytka D. <i>Russia, Czech Republic</i> COMPOSITE MATERIAL ON BASIS OF PEAT AND MAGNESIA BINDER |
| 14:40 | M. Sanytsky, O. Pozniak, B. Rusyn, A. Szymanek, J. Szymanska, <i>Ukraine, Poland</i> CONCRETE BASED ON MODIFIED CEMENTITIOUS SYSTEM WITH FINE GROUND MINERAL ADDITIVES |
| 15:00 | Netinger, I., Bjegović, D., Jelčić Rukavina, M., Serdar, M. <i>Croatia</i> PROPERTIES OF STEEL SLAG AGGREGATES CONCRETE |
| 15:20 | Quiroga, P., Torres, N., <i>Columbia</i> COMPARISON OF THE PERFORMANCE OF STRUCTURAL ELEMENTS MADE WITH REGULAR CONCRETE AND CONCRETE WITH RECYCLED AGGREGATES IN COLOMBIA |
| 15:40 | De Schepper, M., Van den Heede, P., Windels, C., De Belie, N., <i>Belgium</i> CYCLE ASSESSMENT OF COMPLETELY RECYCLABLE CONCRETE |
| 16:45 | Departure of buses for concert in the Punkevní Caves and dinner. Please remember that temperatures in the caves can be as low as 9°C! |

| Thursday, June 30th | |
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| | Chairperson: P. Trtik, Switzerland |
| 9:00 | Logoń, D., <i>Poland</i> THE ROPE EFFECT IN HPFRC CEMENT COMPOSITES |
| 9:20 | Hela, R., Zach, J., Sedlamajer, M. <i>Czech Republic</i> UTILIZATION OF METAKAOLIN AS A REPLACEMENT FOR CEMENT IN THE ULTRA-LIGHTWEIGHT THERMAL-INSULATING PLASTERS |
| 9:40 | Takahashi, A., Hashimoto, C., <i>Japan</i> DEVELOPMENT OF HIGH PERFORMANCE MORTAR HAVING THE EFFECTS ON REDUCTION OF SURFACE TEMPERATURE |
| 10:00 | Saje, D., Bandelj, B, Saje, B.M., Jakob Šušteršič, J., Lopatič, J., Saje, F., <i>Slovenija</i> THE INFLUENCE OF LENGTH AND VOLUMETRIC CONTENT OF STEEL FIBRES ON SHRINKAGE OF HIGH PERFORMANCE STEEL FIBRE REINFORCED CONCRETE |
| 10:20 | Coffee break |
| | Chairperson: V. Bilek, Czech Republic |
| 11:00 | Janotka, I., Krajčí, L., <i>Slovakia</i> PASSIVATION ABILITY OF THE MORTARS CONTAINING DIFFERENT CEMENT KINDS |
| 11:20 | Torres Castellanos, N., Torres Agredo, J., Mejía de Gutiérrez, R., <i>Columbia</i> COMPARATIVE STUDY OF THE PERFORMANCE OF CONCRETE ADDED WITH FLUID CATALYTIC CRACKING CATALYST RESIDUE (FCC) AND METAKAOLIN (MK) |
| 11:40 | Trtik, P. <i>Switzerland</i> QUANTITATIVE ELASTIC MODULUS MAPPING OF HARDENED CEMENT PASTE WITH ABOUT 100 NM LATERAL RESOLUTION |
| 12:00 | Boháč, M., Staněk, T., Sulovský, P., <i>Czech Republic</i> PROPERTIES OF CEMENT-BASED COMPOSITES WITH NANO-SIZED TITANIUM DIOXIDE |
| 12:20 | Prokeš, J., <i>Czech Republic</i> LONG-FIBRE REINFORCED GEOPOLYMER MATRIX MODIFIED WITH ORGANIC RESINS |
| 12:40 | Closing speech, lunch |

| POSTERS | |
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| | Ali Allahverdi, Salim Ahmadnezhad, <i>Iran</i> SILICOMANGANESE SLAG AS A SUPPLEMENTARY CEMENTING MATERIAL |
| | Ali Allahverdi, Hamideh Hashemi, <i>Iran</i> MAGNESIUM SULPHATE ATTACK ON ALKALI-ACTIVATED SLAG MORTAR |
| | Ali Allahverdi, Hamideh Hashemi, <i>Iran</i> SODIUM SULPHATE ATTACK ON ALKALI-ACTIVATED SLAG MORTAR |
| | Ali Allahverdi, Mahsa Saffari, <i>Iran</i> CHEMICAL ACTIVATION OF PHOSPHOROUS SLAG WITH A SOLID COMPOUND ACTIVATOR |
| | Ali Allahverdi, Mahsa Saffari, <i>Iran</i> IMPARTING CEMENTING PROPERTIES TO NATURAL POZZOLAN WITH A SOLID COMPOUND CHEMICAL ACTIVATOR |
| | Ali Allahverdi, Mir Mohammad Seyedi, Guillaume Habert, <i>Iran, France</i> ENHANCEMENT OF CEMENTING PROPERTIES OF FLY ASH-PORTLAND CEMENTS BLEND WITH A SOLID COMPOUND ACTIVATOR |

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| <p>Saeed Bakhtiyari, Ali Allahverdi, Maziar Rais-Ghasemi, <i>Iran</i> INFLUENCE OF PERMANENT EXPANDED POLYSTYRENE FORMWORK ON FIRE RESISTANCE OF SELF-COMPACTING CONCRETE</p> |
| <p>Vladimir Belov, Victoria Petropavlovskaya, Tatyana Novichenkova, <i>Russia</i> CAPILLARY STRUCTURING OF COMPOSITIONS ON THE BASIS OF MINERAL CEMENTING MATTERS</p> |
| <p>Bilek, V., <i>Czech Republic</i> ALKALI ACTIVATED CONCRETE WITH ADDITION OF CEMENT KILN DUST</p> |
| <p>M. Chromá, M. Vyšvařil, D. Vořechovská, P. Bayer, P. Rovnaníková, <i>Czech republic</i> CONCRETE REHYDRATION – 6 MONTHS AFTER HEATING</p> |
| <p>Mahmoud Gabidullin, Ravil Rakhimov, <i>Russia</i> APPLICATION OF FIBER REINFORCED HIGH-STRENGTH AND WATERPROOF CONCRETE BLOCKS FOR LINING OF KAZAN UNDERGROUND TUNNELS</p> |
| <p>Mahmoud Gabidullin, Ravil Rakhimov, <i>Russia</i> SCIENTIFIC AND TECHNOLOGICAL BASES OF MANAGEMENT OF THE STRUCTURE OF EXPANDED CERAMICS</p> |
| <p>Garkavi M.S., Shlenkina S.S., Garkavi S.Z., Hripacheva I.S., Melchaeva O.K., <i>Russia</i> DEVELOPMENT OF RATIONAL COMPOSITIONS OF MIXED CEMENTS</p> |
| <p>Khaliullin Marat, Ravil Rakhimov, Gayfullin Albert, <i>Russia</i> COMPOSITE GYPSUM BINDERS OF HIGHER WATER RESISTANCE WITH AN ACTIVE MINERAL ADDITIVE – CLAYDITE DUST</p> |
| <p>D. Kolousek, J. Andertova, J. Brus, M. Urbanova, B. Dousova, O. Gedeon, J. Had, L. Kobera, J. Kredatusova, M. Lhotka, V. Machovic, R. Slavik, <i>Czech Republic</i> Hydrothermal stability of geopolymers prepared in $4\text{SiO}_2\cdot\text{Al}_2\text{O}_3\cdot\text{Na}_2\text{O}\cdot 18\text{H}_2\text{O}$ system</p> |
| <p>Krishan, A.L., Troshkina, E.A., <i>Russia</i> CONCRETE FILLED STEEL TUBE COLUMNS WITH PRELIMINARY COMPRESSED CONCRETE CORE</p> |
| <p>Rakhimov R., Gabidullin M., Rakhimova N., Rakhimov M., Smirnov D., <i>Russia</i> HOOP'S BLOCKS FOR THE TUBE RAILWAY TUNNEL LINING ON THE BASE OF THE DIFFERENT KINDS OF THE CONCRETES AND THEIR PRODUCTION TECHNOLOGY</p> |
| <p>Bohuslav Řezník, Iva Frýbortová, Pavla Rovnaníková, <i>Czech Republic</i> PROPERTIES OF ALKALI-ACTIVATED FLY ASH WITH RESPECT TO THE SILICATE MODULUS OF ACTIVATOR</p> |
| <p>Pavel Rovnaník, Patrik Bayer, Pavla Rovnaníková, <i>Czech Republic</i> MICROSTRUCTURAL ASPECTS OF HIGH TEMPERATURE TREATMENT OF ALKALI ACTIVATED SLAG</p> |
| <p>Pavla Rovnaníková, Patrik Bayer, Pavel Rovnaník, <i>Czech Republic</i> CORROSION RESISTIVITY OF CONCRETE WITH BRICK POWDER</p> |
| <p>Stanislav Sychugov, <i>Russia</i> THE USAGE OF ULTRA- AND NANODISPERSED POWDERS OF ACTIVATED GALVANIC SLUDGE AS MODIFIERS FOR NATURAL ANHYDRITE BINDERS</p> |
| <p>Jaroslav Válek, Roman Stavinoha, Lenka Bodnářová, Rudolf Hela, <i>Czech Republic</i> LIGHTWEIGHT CONCRETE WITH ALKALI-ACTIVATED MATRIX BASED ON METAKAOLINE AND MICRONIZED LIMESTONE</p> |
| <p>L.V. Yudina, V.V. Turchin, <i>Russia</i> COMPOSING SLAG AND CAUSTIC ASTRINGENTS</p> |