

Programme of the conference Telč 2009

Tuesday, June 9th, 2009

9.00 – 10.00 Registration

10.00 – 12.00 Opening lectures

Development of the Czech building industry

Václav Knor

Decrease of economic growth of building materials industry in the Czech Republic

Pavel Malinský

Research and development programme TIP of the Ministry of Industry and Trade for the years 2009 and 2010

František Komrská

Approach of Ministry of Environment to the forms of energy saving

Immo Bellman

Changes in the system of RaD support in the Czech Republic

Václav Neumajer

Silicate Union and present activities

Karel Pavlík

12.00 – 13.30 Lunch break

13.30 – 16.00 Parallel Sessions A1, B1

A1: Materials favourable for environment and related problems

Modern pro-ecological technology for the management of multi-material, environmentally inconvenient waste

Ireneusz Baic, Leszek Danecki, Zbigniew Paluchiewicz

Utilization of Fly Ash from Thermal Power Plants in Ceramic Industry

Zvezdana Bascarevic, Ljiljana Petrasinovic-Stojkanovic, Miroslav Komljenovic, Natasa Jovanovic, Violeta Bradic

Revision of the Construction Products Directive 89/106/EEC

Stefan Góralczyk, Magdalena Lukowska

Ecological demands on utilization of residual materials from mining, raw materials design and processing

Hana Zezulová, Jaroslava Ledererová, Miroslav Svoboda

Significant of usable durability of building matters on base of secondary raw materials

Pavel Leber, Miroslav Svoboda, Jaroslava Ledererová, Vladimír Gottfried, Lubomír Zavřel

Artificial aggregate produced in the cold according to the purpose of the usage

Martin Vyvážil, Jaroslava Ledererová, Miroslav Svoboda, Petr Bibora, Aleš Rubek

Public opinion research on building materials based on SEP

Michaela Suchardová, Martina Hrušatová Frühbauerová, Marcela Klimešová, Martin Nejedlík
(Proceedings only)

Discussion

B1: Binders – processes and methods

Qualitative and quantitative assessment of raw materials by thermal analysis

Miroslav Hroza, Theodor Staněk

Preparation of clinker phases and their hydration under the various conditions

Jan Koplík, František Šoukal, Jiří Másilko, Lukáš Buzek

Comparison of the application of isothermal and solution calorimetry for monitoring of the cement hydration

Pavel Šiler, Josef Krátký, Nele de Belie

The influence of P₂O₅ in combination with other minor oxides on the properties of Portland cement clinker

Theodor Staněk, Petr Sulovský, Lenka Opravilová

The influence of minor oxides on the substitution of phosphorus in clinker minerals

Petr Sulovský, Theodor Staněk

The influence of meat and bone meal ash on hydration of portland cement

Petr Ptáček, Jaromír Havlica, František Šoukal, Tomáš Opravil, Jan Baráček

Utilization of material for substitute of blast furnace slag in portland cement

Marcela Fridrichová, Karel Kalivoda, Jan Novák

Increasing hydration kinetics of belitic cement

Marcela Fridrichová, Dominik Gazdič, Oldřich Hoffmann

(Proceedings only)

Discussion

16.00 – 16.30 Coffee break

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16.30 – 18.30 Parallel sessions A2, B2

A2: Products containing secondary raw materials

Utilization of industrial by-products for dry mortar mixes

Jaroslava Jančová, Jaroslava Ledererová, Martin Vyvážil, Aleš Rubek, Ivo Fryčar

Artificial aggregate from coal debris and the possibility of its utilization in concrete production

Karel Kulísek, Jiří Adámek, Michal Batelka

Utilization of waste from agriculture for production thermal insulation

Jiří Zach, Jitka Hroudová

Model of earth-fill dam strengthened with fibre-concrete with aggregate fully replaced with recycled material

Jan Vodička, Vladimíra Vytlačilová, Hana Hanzlová, Iva Broukalová, Jaroslav Výborný

New types of hydraulic bonding agents on the basis of waste products

Miloš Faltus

Report on Dastit material tests and results

Michal Procházka

Ecological aspects of new sintered aggregates production

Karel Kulísek, Vít Černý (Proceedings only)

Substitution of granulated blast furnace slag in alkali activated materials by industrial waste

Halina Szklorzová, Vlastimil Bílek, Oldřich Sviták (Proceedings only)

Proposal constitution glazes on base fit secondary raw material

Simona Grygarová (Proceedings only)

Discussion

B2: Binders – processes and properties

Influence of PCE superplasticizers on PC/GGBS cement

Martin Boháč, Theodor Staněk, Dalibor Všianský, Dana Kubátová

Influence of the alternative admixtures on the used cement composites properties

Lenka Opravilová, Theodor Staněk, Dana Kubátová, Dalibor Všianský

The coherence searching of limestone properties and its optimal burning temperature

Radovan Nečas, Dana Kubátová, Jiří Junek, Vladimír Těhník

The effect of additives on calcium hydroxide properties

Dana Kubátová, Jiří Junek, Miloslava Dubnická

High-heat resistant phosphate binders

Lukáš Buzek, František Šoukal, Jiří Másilko, Jan Koplík

The influence of filler granularity and inorganic binder content on properties of synthetic sandstones

Petr Koutník, Oleg Bortnovsky, Karla Dvořáková, Marina Poslední, Pavel Roubíček

Utilization of fluid bed fly ash for decrease of CO₂ emissions in the production of hydraulic binder

Marcela Fridrichová, Karel Dvořák, Karel Kulísek (Proceedings only)

Frost resistance of lime-pozzolana mortars

Pavla Rovnaníková, Naděžda Krmíčková (Proceedings only)

Beta gypsum characteristic modification

Marcela Fridrichová, Karel Kalivoda (Proceedings only)

Discussion

19.30 Dinner party

Book release „Biocorrosion effects on built constructions“

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Wednesday, June 10th, 2009

8.00 – 8.30 Registration

8.30 – 10.30 Parallel sessions A3, B3

A3: Properties of materials and products based on secondary raw materials

Desulphogypsums laboratory testing, verification of laboratory firing possibilities

Petr Bibora, Pavel Leber, Jaroslava Ledererová

Research of the physical-mechanical properties of the material based on alkaline activated fly ash

Tomáš Strnad, Pavel Svoboda

Utilization of black coal ash with high content of loss on ignition and slag from generation plant in civil engineering

Martin Sisol, Frantiska Michalíková, Ivana Kozáková, Miroslava Kolesárová

Granulometry and distribution of mineral additives in binding mixtures

Jan Baráček, Jaromír Havlica, František Šoukal

Impact of filler addition on the technological process and properties of autoclaved aerated concrete

Svetozár Balkovic, Miroslav Peteja, Milan Drábik

The possibility of utilization of bentonite as an adsorbent of heavy metals

Lenka Fusová, Kateřina Cechlová, Vladimír Čablík

Resistance of blended binders based on waste against selected physical and chemical influences

Alena Síčáková, Eva Terpáková (Proceedings only)

Discussion

B3: Inorganic fibre composites, Nanocomposites

Utilization of waste materials in production of thin-walled fibre-cement elements

René Čechmánek, Marcela Klimešová, Zuzana Letková

Multifunctional cement composites with carbon fibres

René Čechmánek, Josef Knězek

Effect of carbon admixtures on electrical properties of inorganic composites

Jiří Junek, René Čechmánek, Pavel Šteffan, Peter Barath

Non-traditional reinforcing of fibre concrete composites

Pavel Trčka, Radek Holešinský, Ludvík Lederer

Advantages of using combined different kinds of non-metallic fibre reinforcement in cement composite

Wail Khazaal, Vladan Prachař, René Čechmánek, Petr Doubek

Comparison of plain concrete and fibre concrete

Ondřej Pospíchal, Petr Cikrle, Jitka Vašková

Extruded fiber concrete – technology, properties and applications

Petr Tihlařík, Jindra Drottnerová, Jaroslava Jančová, Romana Svobodová, Pavel Trčka

Technological assistance at the manufacture of fibre cement boards in the Czech Wood Company, J.S.C. Praha, plant Černousy

Jindra Drottnerová, Michal Frank, Lubomír Lejsek

UNITHERMEX applications in a crisis of glass industry

Petr Tihlařík, Jindra Drottnerová, Jaroslava Jančová (Proceedings only)

CIVAK – present results and topics of further cooperation

Jaroslava Ledererová, Josef Knězek, Miroslav Svoboda, Marcela Klimešová (Proceedings only)

Compressive strength of extruded materials

Martin Koudelka, Barbara Kucharczyková, Petr Misák, Jiří Adánek (Proceedings only)

A comparison of loading test results of GFRC elements reinforced by rigid glass reinforcement with theoretical static calculations

Emil Čupera, Radek Holešinský, Jan Zámečník (Proceedings only)

Discussion

10.30 – 11.00 Coffee break

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11.00 – 13.00 Parallel sessions A4, B4

A4: Biodegradation, microbial resistance and other special properties

Biocorrosion of building materials - effect of biocide additives

Ivana Chromková, Pavel Leber, Jaroslava Ledererová, Marcela Klimešová

To the problem of penetration of bacteria and fungi through the porous system of moist building materials

Richard Wasserbauer, Pavel Kokeš, Viktor Zwiener

Chemical effects of environment on tested inorganic composites based on industrial waste material (IWM)

Josef Sáček, Pavel Leber, Jaroslava Ledererová, Miroslav Svoboda, Emil Čupera, Lubomír Zavřel, Ivo Fryčar, Andrea Vančurová

POP-concrete surface resistance to defrosting chemicals

Jaroslav Jeništa

Environmental aspects of surface treatment of building industry

Petr Antoš

Analysis of contaminants disengaging from polyurethans waste of the environment

Tomáš Dvorský, Vojtěch Václavík, Jaromír Daxner

The increases of long-term sulphate corrosion resistance of cement mortar by using ground granulated blast furnace slag

Radek Holešinský, Petr Bayer, Jaroslava Jančová, Jiří Böhm

(Proceedings only)

Study of composite properties based on crushed plastics

Eva Terpáková, Alena Sičáková

(Proceedings only)

Discussion

B4: Numerical simulation of new fibre composites, fracture mechanics and stochastic methods of construction design

Role of selected parameters of material models for concrete in Atena program

Miroslav Vořechovský, Václav Sadílek

Effect of length of polypropylene fibres on fracture behaviour of fibre lightweight concrete specimens

Barbara Kucharczyková, Iveta Plšková, Zbyněk Keršner

Fatigue parameters of concrete for pre-stressed elements

Stanislav Seitzl, Eva Juřinová, Zbyněk Keršner, Vlastimil Bílek

A cellular automaton-based formulation of non-local damage mechanics

Jan Podroužek, Drahomír Novák

Comparison of fracture-mechanical parameters of developed special cement based fibre-composites

Ladislav Řoutil, Jan Eliáš, Zbyněk Keršner, Václav Veselý

Discussion

13.00 – 14.30 Lunch break

14.30 Visit of the Dačice chateau

14.30 Departure

15.00 Sightseeing

16.30 – 17.00 Coffee break

17.00 – 19.00 Discussion

19.30 Dinner party

Programme of the conference Telč 2009

Thursday, June 11th, 2009

8.00 – 8.30 Registration

8.30 – 10.30 Session A5-1

A5-1: New testing methods and new rationalization technologies

The comparison of ICP-OES, F-AAS and gravimetric analysis for the determination of the low concentration of SiO₂ in matrix of calcite

Kristýna Urbánková, Zuzana Letková

Development and improving tests of ecological study in laboratories ATElab

Zuzana Letková, Kristýna Urbánková

The new trends in ecotoxicology valuation

Zuzana Letková, Karim Ayoubi, Soňa Jarošová, Alena Gregrová

Laboratory examination of silicate composites disposition to efflorescence

Jaromír Voják, Pavel Leber, Jaroslava Ledererová, Miroslav Svoboda, Martin Vyvážil

Methodology of historical and recent pottery technological processes examination

Dalibor Všianský, Miroslava Gregerová, Tomáš Opravil

Sol-gel synthesis of a LAS glass ceramics and influence of additives on a phase transformation and crystallization

Helena Krejčová, Petr Ptáček

Preparation of TiO₂ powders by sol-gel method using titanium alkoxides

Alena Rutteová, Petr Ptáček, Jaromír Havlica

Discussion

10.30 – 11.00 Coffee break

11.00 – 13.00 Session A5-2

A5-2: New testing methods and new rationalization technologies

Alkali activation of ground fly-ash

Rostislav Šulc, Pavel Svoboda

Dissolution of calcium and magnesium containing minerals in acetic acid for mineral carbonation

Magdaléna Nosková, Petr Ptáček, Jaromír Havlica, František Šoukal, Tomáš Opravil

Quality management in hazardous waste stabilization/solidification

Vladimír Hůda

Increases in water resistance of MDF composites

Jiří Másilko, František Šoukal, Lukáš Buzek, Jan Koplík

Latexes modified cementitious materials – latex type effect on mechanical parameters

František Šoukal, Tomáš Opravil, Petr Ptáček, Jaromír Havlica

Preparation of composites with geopolymer matrix based on metakaoline and secondary raw materials from power plants and metallurgic industry

Tomáš Opravil, František Šoukal, Petr Ptáček, Jaromír Havlica

Alkali-activated matrix applied in concrete for obtaining resistance to higher temperatures

Jaroslav Válek

(Proceedings only)

Discussion and the end of the conference

13.00 – 14.30 Lunch break

The programme may be subject to change.