

Programme of the conference Telč 2010

Tuesday, June 8th, 2010

9.00 – 10.00 Registration

10.00 – 12.30 Opening lectures

Czech Construction in Europe's environment

Václav Knor (Ministry of Industry and Trade)

Sustainable development of construction industry

Pavel Malinský (Ministry of Industry and Trade)

The raw materials Initiative of the European Union

Stefan Góralczyk

Promoting industrial Research and Development – TIP

František Komrská (Ministry of Industry and Trade)

The strategy of use of secondary raw materials

Pavína Kulhánková (Ministry of Industry and Trade)

Idea of „Foresight“ project as a tool for shaping development of construction materials sector

Ireneusz Baic, Stefan Góralczyk

News in environmental protection from the view of Ministry of Environment

Immo Bellman (Ministry of Environment)

20 years of Silicate Union

Karel Pavlík (Silicate Union)

12.30 – 14.00 Lunch break

14.00 – 16.00 Parallel Sessions A1, B1

A1: Materials favourable for environment and related problems

CCPs – waste or valuable raw material?

Miroslav Svoboda

Centre for Standardization of Research Institute of Building Materials

Blanka Hromadová, Pavel Leber, Jaroslava Ledererová, Martin Nejedlík, Hana Šimáčková

Eco-Ductile Composite Concrete for Sustainable City Infrastructure

Mustafa Kara, Esin Günay, Aysen Kilic

Environmentally Friendly Concrete from Floor Tile Waste

Yasemin Tabak, Mustafa Kara, Esin Günay, Senol Yilmaz

New EnviMIX products on CCP base for new possibilities in hydraulic engineering

Petr Bibora, Miroslav Svoboda, Jaroslava Ledererová, Pavel Leber

Discussion

B1: Materials based on secondary energetic products

Centre for Standardization of Research Institute of Building Materials

Blanka Hromadová, Pavel Leber, Jaroslava Ledererová, Martin Nejedlík, Hana Šimáčková

Long-term studies of autoclaved aerated concrete produced from fluid fly ash

Svetozár Balkovic, Miroslav Peteja, Milan Drábik

Dry mortar mixes with the partial substitution of binder by fluidized ash

Jaroslava Jančová, Jaroslava Ledererová, Aleš Rubek, Romana Závřelová

By-products verification for producing cement lining of pipe

Jaromír Vojáček, Jaroslava Ledererová, Alena Gregrová, Andrea Vančurová

Technological suitability examination of artificial aggregate into concrete on base of secondary energetic products produced by cold technology

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

Discussion

16.00 – 16.30 Coffee break

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16.30 – 18.30 Parallel sessions A2, B2

A2: Materials favourable for environment and related problems I.

Application of fibre-cement composites with utilization of industrial waste materials

René Čechmánek, Marcela Klimešová, Josef Knězek

Influence of dispersive non-metallic fibre reinforcement with different characteristics on properties of fine-grained cement composite

Wajil Khazal, Vladan Prachař, Petr Doubek, René Čechmánek

Innovative technology line of forming EUR-pallets cantilevers from wood waste

Janusz Oleszczak

Post-user wood waste as construction material – resources analysis

Zbigniew Paluchiewicz, Beata Witkowska-Kita, Leszek Danecki, Ireneusz Baic

New methods of using ICP-OES for classification of industrial waste materials

Kristýna Urbánková, Zuzana Pavlítová Letková

Utilization of contact tests for solid waste

Zuzana Pavlítová Letková, Alena Gregrová

Discussion

B2: Products made from waste materials

Verifying the possibility of artificial aggregates of burned tailings in the production of concrete

Michal Batelka

Environmental aspects of artificial aggregate selfburning process

Vít Černý, Rostislav Drochytka

Properties of fibres from waste PET bottles and their consistency with the cement matrix

Jiří Lukš, Jan Vodička, Jiří Krátký

Strength characteristics of fibre concrete with chosen synthetic fibres

Jan Vodička, Vladimíra Vytlačilová, Jaroslav Výborný, Hana Hanzlová

Filling materials for non-supportive constructions based on the technical hemp

Šárka Keprdová, Jiří Bydžovský

Discussion

20:00 Dinner party

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Wednesday, June 9th, 2010

8.00 – 8.30 Registration

8.30 – 10.30 Parallel sessions A2+A3, B3

A2: Materials favourable for environment and related problems II.

Preparation of dossiers for Coal Combustion Product under Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Zuzana Tomešová

Discussion

A3: Binders – processes, methods and properties

Identification of Portland clinker common minerals and their modifications

Dalibor Všíanský, Theodor Staněk

Relation between preparation parameters of belite cement and this hydraulic properties

Theodor Staněk

Determination of optimal superplasticizer dosage for composite cements by means of rheological measurement

Martin Boháč, Theodor Staněk

Fluid behavior of cement paste

Michaela Wirthová, Martin Zmrzlý, Jaromír Wasserbauer

Spongilit as a raw material for production of cement

Vladimír Těhník

The relationship of mineralogical and petrographic characteristics of limestones and technological properties of lime for special use

Petr Sulovský, Radovan Nečas, Kristýna Hnilicová

Determining the decomposition energy of various type limestones

Radovan Nečas, Miroslav Hroza

Utilization of fluid bed fly ash for Portland clinker burning

Dominik Gazdič, Marcela Fridrichová, Karel Dvořák (Proceedings only)

Measuring of creep of cement paste

Pavel Padevět, Petr Bittnar (Proceedings only)

Gypsum – Building Materials and Possibility of its

Recyclation

Pavel Padevět, Andrea Wilczynská, Pavel Tesárek (Proceedings only)

Gypsum as a Renewed Material in Building Industry

Pavel Padevět, Andrea Wilczynská, Tomáš Mraček, Pavel Tesárek (Proceedings only)

Using of bypass dusts for gypps preparation in salt solution

Karel Dvořák, Dominik Gazdič, Karel Kalivoda (Proceedings only)

Assessment of properties of renovation mortars

Pavla Rovnaníková, Patrik Bayer, Jiří Strádal (Proceedings only)

Discussion

10.30 – 11.00 Coffee break

B3: Properties of materials and products based on secondary raw material

Stabilization of blast furnace slag and fly ash by alkali activation

Jan Koplík, Lukáš Buzek, Jiří Másilko, František Šoukal

Synthesis of aluminosilicate systems based on alkali activation of industrial by-products

Lukáš Buzek, Jan Koplík, Jiří Másilko, František Šoukal

Study of behavior of thermal insulation materials based on organic raw material resources

Jiří Zach, Jitka Hroudová

Testing of the riskcomponents' influence on voluminous changes of cementitious composites

Lenka Opravilová, Dalibor Všíanský, Dana Kubátová

Drying shrinkage of polymeric material on the basis of alkaline activated fly ash

Tomáš Strnad, Pavel Svoboda

Storage of Polymeric Concrete on the Base of the Alkaline Activated Fly-Ash in Various Conditions

Rostislav Šulc, Pavel Svoboda

Properties of geopolymers made of black coal ashes with a high content of loss on ignition

Miroslava Kolesárová, Martin Sisol, Ivana Krinická, Františka Michalíková, Mária Praščáková

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

Pavel Leber, Jaroslava Ledererová, Miroslav Svoboda, Vladimír Gottfried (Proceedings only)

Discussion

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11.00 – 13.00 Parallel sessions A4, B4

A4: Inorganic fibre composites, Nanocomposites

Strength material characteristics of fiber-cement building components and verification of warming and sprinkling influence upon their behaviour

Jindřich Melcher, Marcela Karmazínová

Research on the use of special composite materials for efficiency improving of infra-red heating systems

Bohdan Nešpor, Hynek Vilam

Research, production and testing of new fiber-cement boards Cemvin

Michal Frank, Radek Holešinský, Romana Zavřelová

Thermal properties of sheet materials, exposed to high temperatures

Jan Toman, Tomáš Korecký, Robert Černý, Michal Frank

Possibilities of fibre-cement extrusion

Petr Tihlařík, Romana Zavřelová, Jiří Böhlm, Jitka Hledíková

Analysis of the uniformity of steel fibres dispersion in cross-section of extruded materials

Petr Misák, Barbara Kucharczyková, Ondřej Pospíchal

Mould construction for production of a special shaped shell element - fibre-cement monolith shelter

Trčka Pavel, Vilam Hynek, Čechmánek René

On the potential of complex fibre-cement composites with PVA fibres and planar carbon reinforcement

René Čechmánek, Jiří Junek, Josef Knězek, Vladan Prachař, Lenka Sedláková (Proceedings only)

Glass-fibre reinforced concrete elements with significant fraction of industrial waste materials

René Čechmánek, Radek Holešinský, Josef Knězek (Proceedings only)

Dispersivity of structural particles of cement-based composite matrices

René Čechmánek, Josef Knězek, Dana Kubátová (Proceedings only)

Classification of glass-fibre reinforced concrete according to EN 15191

Wail Khazal, Josef Knězek, Vladan Prachař (Proceedings only)

Discussion

B4: Biodegradation, microbial resistance and other special properties

Corrosive effects of environment on tested inorganic composites based on industrial waste material

Josef Sáček, Pavel Leber, Jaroslava Ledererová, Miroslav Svoboda

The microbiological degradation of roof slabs of cellulose pulp saturated with bitumen

Richard Wasserbauer

The changes of the contents of ash waste compounds over time

Vlasta Šabatová, Alena Paličková

Comparison of water and air permeability surface covercrete

Zlata Kadlecová, Jiří Adámek

Local tests of mechanical properties of materials

Jaromír Wasserbauer, Martin Zmrzlý, Michaela Wirthová

Revitalization of dykes of water sources with utilization of EnviMIX products

Jan Hrubý, Daniela Knotová, Tomáš Vymyslický, Barbora Badalíková, Jaroslava Bartlová, Miroslav Svoboda

The influence of the content of inorganic pigments on properties of lime-pozzolana mortars

Petr Koutník, Petr Antoš, Marina Poslední, Pavel Roubíček

Chemical grouting method for protection of cellular concrete brickwork

Alena Struhárová (Proceedings only)

Discussion

13.00 – 14.30

Lunch break

14.30

Excursion – The House of Telč or Lookout Tower Oslednice

16.30 – 17.00

Coffee break

17.00 – 19.00

Discussion

19.30

Dinner party

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Thursday, June 10th, 2010

8.00 – 8.30 **Registration**

8.30 – 9.15 **R&D - Actual information**

Aplicated R&D news

Václav Neumajer (Association of Research Organizations)

R&D projects from the view of evaluators

Karel Mráček (Association of Research Organizations)

Discussion

9.15 – 10.30 **Session A5**

A5: Properties of inorganic fibre composites

Comparison of material characteristics of fibre concrete and plain concrete

Dalibor Kocáb, Ondřej Pospíchal, Petr Cíkrle

Effect of carbon admixtures on electrical properties of inorganic composites

Jiří Junek, René Čechmánek, Pavel Šteffan, Peter Barath

Elimination of colour changes on glass fibre reinforced concrete boards

Eva Přichystalová, René Čechmánek

Determination of Anorganic Composites Capillarity

Ondřej Pospíchal, Barbara Kucharczyková, Petr Misák

Fibre Reinforced Composites with Organic Resins Modified Geopolymeric Matrix

Jan Prokeš

Modification of macro-defect-free composites by organotitanate agents and fibrous reinforcement

Jiří Másičko, Martin Repka, František Šoukal, Lukáš Buzek, Jan Koplík

Cohesiveness of non-metallic oriented reinforcement with the glass-fibre-reinforced concrete matrix

*Pavel Trčka, Ludvík Lederer, Radek Holešinský, Halína Szklorzová
(Proceedings only)*

Discussion

10.30 – 11.00 **Coffee break**

11.00 – 12.15 **Session A6**

A6: Numerical simulation of new fibre composites, fracture mechanics and stochastic methods of construction design

Determination of material parameters of various concretes for simulation of fracture test

David Lehký, Luděk Brdečko

Comparison of modeling alternatives of notched beam with respect to size effect

Václav Sadílek, Miroslav Vořechovský, František Černík

Determination of fracture-mechanical parameters of composites with PVA fibers of various lengths including influence of degradation

Ladislav Routil, Zbyněk Keršner, Václav Veselý

Aspects of modelling of quasi-brittle failure and reliability of specific cement-based fibre composites

Ladislav Routil, Zbyněk Keršner, Drahomír Novák

Discussion

12.15 – 12.30 **Ending of the conference**

12.30 – 14.00 **Lunch break**

The programme may be subject to change.