Conference Programme

WEDNESDAY, NOVEMBER 3, 2010

14:00 Registration

15:00 CONFERENCE OPENING (Robert Cerny)

15:10 Invited lecture (30 minutes, Introduction of invited speaker: Robert Cerny) Rachel Becker

Effects of PCM Application on Thermal and Energy Performance of Buildings in Summer

15:40 Lectures: Hygrothermal performance of building structures and materials (6×20 minutes, Chairman: Oldrich Zmeskal)

S. Olof Hägerstedt, Jesper Arfvidsson

Comparison of field measurements and calculations of relative humidity and temperature in wood framed walls (to 16:00)

Matthias Kersken, Almuth Schade

How good is the insulation quality of IR reflective insulation products? (to 16:20)

Christian Bludau, Thomas Schmidt, Hartwig M. Künzel

Hygrothermal effects in lightweight roofs shaded by PV-elements (to 16:40)

Andrea Binder, Daniel Zirkelbach, Hartwig Künzel

New method to quantify liquid transport inside hydrophilic interior insulation materials (to 17:00)

Dariusz Gawin, Francesco Pesavento, Marcin Koniorczyk, Mateusz Wyrzykowski, Witold Grymin

Modelling chemical degradation of cement based materials with mechanics of multiphase porous media (to 17:20)

Ivan Baník, Jozefa Lukovičová, Gabriela Pavlendová, Juraj Veselský

Measurement of thermophysical properties of heat-insulating materials by constant temperature increase (to 17:40)

18:00 **DINNER**

THURSDAY, NOVEMBER 4, 2010

7:30 BREAKFAST

8:30 Invited lecture (30 minutes, Introduction of invited speaker: Vlastimil Bohac)

Ludovit Kubicar

Measuring Regime and Accuracy of the Transient Hot Ball Method

9:00 Lectures: Thermal performance and material properties (5 x 20 minutes, Chairman:

Vlastimil Bohac)

Muhammad Abid, Ulf Hammerschmidt, Vladislav Meier

Dependence of thermophysical properties of sander sandstone on multiple pore filling fluids (to 9:20)

Stanislav Stastník, Jiří Vala, Jaroslav Nováček, Daniel Kopkáně

Properties of PCM-modified building materials (to 9:40)

Zbigniew Suchorab, Henryk Sobczuk, Mariusz Skwarczyński

Determination of red brick heat conductivity coefficient depending on moisture (to 10:00)

Monika Wielgosz, Piotr Koniorczyk

Analysis of thermophysical parameters measurements of chosen foams, polymers and metals by transient plane source method (to 10:20)

Jiří Vala, Stanislav Stastník

Identification problems of heat transfer in building materials (to 10:40)

10:40 COFFEE BREAK

11:00 Invited lecture (30 minutes, Introduction of invited speaker: Peter Matiasovsky)

Peter Simon

Thermal Stability of Glass Evaluated by the Induction Period of Crystallization

11:30 Lectures: Moisture related problems (4 x 20 minutes, Chairman: Peter Matiasovsky)

Kamil Ďurana, Jiří Maděra, Robert Černý

Numerical analysis of coupled heat and moisture transfer in porous materials at high temperatures (to 11:50)

Peter Mihalka, Peter Matiasovsky

Investigation of moisture transport in aluminium cooling panel plaster at cyclic water sorption regimes (to 12:10)

Danica Fidríková, Ludovít Kubicar

Investigation of water diffusion in porous sandstone using transient hot-ball method (to 12:30)

Olga Koronthalyova

Microstructure and water vapour adsorption of capillary-porous building materials (to 12:50)

13:00 LUNCH

13:40 CULTURAL PROGRAMME - trip to environs of Valtice 19:00 SOCIAL PROGRAMME - conference dinner and wine testing

FRIDAY, NOVEMBER 5, 2010

7:30 BREAKFAST

8:30 Invited lecture (30 minutes, Introduction of invited speaker: Ludovit Kubicar)

Andrzej J. Panas

Comparative-Complementary Investigations of Thermophysical Properties – High Thermal Resolution Procedures in Practice

9:00 Lectures: Thermophysical properties and testing methods (5 \times 20 minutes, Chairman:

Ludovit Kubicar)

Janusz Zmywaczyk, Marcin Gapski

Estimation of thermophysical parameters of stainless steel 1H18N9T by an inverse method (to 9:20)

B. K. Sarkar, A. S. Verma

Photoacoustic spectroscopic investigation of temperature dependence of optical absorption in Cu2GeSe3 (to 9:40)

Svetozár Malinarič

Measurement of thermophysical properties of polypropylene-talc composite (to 9:20)

Peter Sin, Rudolf Podoba, Igor Stubna

Thermodilatometry of the Brick Clay (to 10:00)

Jan Toman, Tomas Korecky, Michal Frank, Robert Cerny

High Temperature Stability of Board Composites (to 10:20)

10:40 COFFEE BREAK

11:10 Lectures: Thermophysical and hygric properties and testing methods (6 x 20 minutes,

Chairman: Igor Medved)

Ivan Baník, Frantisek Čulík, Jozefa Lukovičová

Some specific problems of thermophysics semiconducting materials (to 11:30)

Ján Ondruska, Igor Medveď, Anton Trník

Thermal diffusivity in electroceramics during linear heating (to 11:50)

Oldřich Zmeskal, Jaroslav Polcer, Lenka Hrebenova, Pavla Stefková

Determination of Thermal and Moisture Parameters from the Transient Responses (to 12:10)

Peter Mihalka, Peter Matiasovsky, Matus Holubek

Determination of liquid water diffusivity of lime-cement perlite plaster at cyclic wetting and drying regimes (to 12:30)

Vlastimil Bohac, Ludovít Kubicar, Viliam Vretenar

Thermophysical properties of natural sandstone measured by pulse transient technique. A new model for cuboid shape samples (to 12:50)

Beatrix Almero Lavie, Ludovit Kubicar

Calibration of the Hotball sensors (to 13:10)

13:10 LUNCH

14:00 MEETING OF THERMOPHYSICS SOCIETY