



# THERMOPHYSICS 2013

13th - 15th November 2013, Guesthouse Adam, Podkylava 188, Slovak Republic

## Conference programme

November 13<sup>th</sup> – 15<sup>th</sup> 2013

The annual meeting of the Thermophysical Society and Working Group of the Slovak Physical Society





# THERMOPHYSICS 2013

13th - 15th November 2013, Guesthouse Adam, Podkylava 188, Slovak Republic

November 13<sup>th</sup> 2013

13:00 – 14:45 Conference registration

13:30 Lunch

15:00 *Conference opening – short invitation of conference chairman V.Boháč*

---

*Thermal properties of building materials*

*chairman Robert Černý*

15:10 Invited lecture (30 minutes)

**Shuichi Hokoi**

MEASUREMENT OF APPARENT THERMAL CONDUCTIVITY OF WET POROUS BUILDING MATERIALS BY A PERIODIC METHOD

*Proc.page 23*

15:40 Lectures (3 x 20 minutes) (to 16:00)(to 16:20)(to 16:40)

**Zbyšek Pavlík, Anton Trník, Martin Keppert, Milena Pavlíková, Jaromír Žumár, Robert Černý.**

EXPERIMENTAL INVESTIGATION OF THE PROPERTIES OF LIME-BASED PLASTER CONTAINING PCM FOR ENHANCING THE HEAT STORAGE CAPACITY OF BUILDING ENVELOPES

*Not in Proc.*

**Anna Kondrot-Buchta, Piotr Koniorczyk, Janusz Zmywaczyk**

EXPERIMENTAL INVESTIGATIONS OF THICKNESS EFFECT CURVE IN POLYSTYRENE FOAM (STYROFOAM)

72

**Lenka Dohnalová, Lucie Trhlíková, Oldřich Zmeškal**

TEMPERATURE DEPENDENCE OF THERMAL PARAMETERS OF BUILDING MATERIALS

194

16:40 COFFEE BREAK (20 minutes)

---

*Thermophysical phenomena in solids*

*chairman Janusz Zmywaczyk*

17:00 Lectures (3 x 20 minutes)(to 17:20)(to 17:40)(to 18:00)

**Lukáš Fiala, Jan Fořt, Milena Pavlíková, Martin Keppert, Jaromír Žumár, Anton Trník, Jiří Studnička, Zbyšek Pavlík**

EFFECT OF EXTRACTION METHODS ON PERFORMANCE OF MUNICIPAL SOLID WASTE INCINERATION FLY ASHES AS ADMIXTURES IN CEMENTITIOUS COMPOSITES

131

**Marek Jabłoński, Ismena Gawęda, Dariusz Gawin**

EFFECT OF TEMPERATURE ON EVOLUTION OF HYDRATION PROCESS IN DIFFERENT CEMENT PASTES

222

**Marcin Cegła, Janusz Zmywaczyk, Piotr Koniorczyk**

DYNAMIC MECHANICAL ANALYSIS OF DOUBLE BASE SOLID ROCKET PROPELLANT WITH ADDITION OF SOOT

208

18:00 DINNER

---





# THERMOPHYSICS 2013

13th - 15th November 2013, Guesthouse Adam, Podkylava 188, Slovak Republic

November 14<sup>th</sup> 2013

## *Theoretical problems of thermal properties*

*chairman Zbyšek Pavlík*

**9:00 Invited lecture (30 minutes)**

**Dariusz Gawin**

NUMERICAL MODELLING OF COUPLINGS BETWEEN HYGRO-THERMAL STATE AND  
CHEMICAL DEGRADATION OF POROUS BUILDING MATERIALS

*Proc. page 10*

**9:30 Lectures (4 x 20 minutes) (to 9:50)(to 10:10)(to 10:30)(to 10:50)**

**Ismail Hakk, Tavman, Tuba Evgin**

ESTIMATION OF THERMAL CONDUCTIVITY OF COMPOSITES REINFORCED WITH  
CONDUCTIVE PARTICLE FILLERS – MODELS AND NUMERICAL STUDY

162

**Ivan Baník**

THE ROLE OF THE NANO-LOCAL HEATING IN PHOTOINDUCED STRUCTURAL CHANGES IN  
CHALCOGENIDE GLASSES FROM POINT OF VIEW OF THE BARRIER-CLUSTER-HEATING  
MODEL

32

**Bimal Kumar Sarkar, Gabriela Pavlendová, Ivan Baník, Ajay Singh Verma**

THERMO-MECHANICAL PROPERTIES OF BE-CHALCOGENIDES FROM DENSITY FUNCTIONAL  
THEORY

154

**Ján Hudec, Vladimír Štofanič, Viliam Vretenár, Ľudovít Kubičár**

DEVICE FOR MONITORING THE TEMPERATURE – MOISTURE REGIME OF CULTURAL  
OBJECTS USING WIRELESS DATA TRANSMISSION

*Not in Proc.*

**10:50 COFFEE BREAK (20 minutes)**

## *Thermal properties of materials*

*chairman Gabriela Pavlendová*

**11:10 Lectures (4 x 20 minutes) (to 11:30)(to 11:50)(to 12:10)(to 12:30)**

**Ján Ondruška, Miroslav Jankula**

INFLUENCE OF THE SIEVING PROCESS ON THERMOPHYSICAL PROPERTIES OF BRICK CLAY

90

**Tomáš Húlan, Anton Trník, Igor Štubňa, Igor Medveď**

THERMAL AND ELASTIC PROPERTIES OF KAOLIN SEDLEC

40

**Zbyšek Pavlík, Lukáš Fiala, Miloš Jerman, Jan Fořt, Robert Černý**

INVESTIGATION OF HEAT TRANSFER IN CAVITY BRICK BLOCK USING LABORATORY  
METHODS SUITABLE FOR LARGE-SCALE SPECIMENS

96

**Lubos Podobnik, Rudolf Podoba, Tiit Kaljuvee, Igor Stubna**

THERMAL STUDY OF BUILDING MATERIALS FROM THE CHURCH IN PÁC

148

13:00 LUNCH

13:40 CULTURAL PROGRAMME

19:00 SOCIAL PROGRAMME

