



THERMOPHYSICS 2012

31st October - 2nd November 2012, Guesthouse Adam, Podkylava 188, Slovak Republic

Conference programme

October 31st – November 2nd 2012

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





THERMOPHYSICS 2012

31st October - 2nd November 2012, Guesthouse Adam, Podkylava 188, Slovak Republic

October 31st 2012

13:00 – 14:45 Conference registration

13:30 Lunch

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

Thermal performance and material properties

chairman E. Kubičár

15:10 Invited lecture (30 minutes)

Bert Verstraeten, Jichuan Xiong, Christ Glorieux

Determination of the thermal diffusivity of paint and the thickness of a paint layer by photothermal IR thermography

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

Jozef Kováč, Anton Trník, Igor Medved'

Calcite influence on the thermal diffusivity of ceramic samples in the temperature range 25 –600°C

Proc.page 81

Ján Ondruška, Anton Trník, Dagmar Jandeková, Pavel Reiterman, Igor Medved'

The comparison of DTA and DSC curves for concrete with metakaolin addition.

Proc.page 142

B. K. Sarkar, G. Pavlendova, I. Banik, A. S. Verma

Electronic and Thermal properties of Zinc Chalcogenides based on Density Function Theory

Proc.page 198

16:40 COFFEE BREAK (20 minutes)

Theoretical problems of thermal properties

chairman P.Koniorczyk

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

Janusz Zmywaczyk, Piotr Koniorczyk, Marek Preiskorn, Bogdan Machowski

Identification of heat transfer coefficient inside a hollow cylinder containing a gas-dynamic control block of medium-range ballistic missile

Proc.page 265

Stanislav Šťastník, Jiří Vala

Identification of thermal characteristics of a high-temperature thermal accumulator.

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E. Martines-Lopez, L. Lira-Cortés

Analysis of Luikov's model in the process of heat and moisture transfer inside of a slab of ceramic

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18:00 DINNER





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November 1st 2012

Thermal properties of materials

chairman I.Medved'

9:00 Invited lecture (30 minutes)

Ismail H. Tavman, Alpaslan Turgut

Applications of thermophysics in science and industry – Nanofluids and PolymerNanocomposites

Proc.page 223

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

Oldrich Zmeskal, Lenka Dohnalova, Stanislav Nespurek

Study of PCM material diffusivity .

Proc.page 258

Svetozár Malinarič, Peter Krupa

Modification of the dynamic plane source method

Proc.page 98

Euboš Podobník, Rudolf Podoba, Igor Štubňa, Peter Bačík

The firing temperature of Gothic bricks from Pác .

Proc.page 192

Vlastimil Boháč, Peter Dieška, Viliam Vretenár

The measurement of thermophysical properties of sandstone by pulse transient method using model for cuboid form samples and influence of heat loss effect

Proc.page 23

10:50 COFFEE BREAK (20 minutes)

Thermal properties of building materials

chairman P.Matiasovský

11:10 Lectures (5x 20 minutes) (to 11:30)(to 11:50)(to 12:10)(to 12:30) (to 12:50)

Vratislav Tydlitát, Jan Zákoutský, Robert Černý

Heat Inertia Correction of Data Measured by a Conduction Calorimeter

Proc.page 235

Jan Kočí, Jiří Maděra, Jaromír Žumár, Zbyšek Pavlík, Robert Černý

Evolution algorithms as tool for optimization of water vapour transport properties of cellularconcrete

Proc.page.60

Peter Matiasovsky, Peter Mihalka

Determination of poromechanical coupling parameters for calcium silicate boards

Proc.page 105

Viliam Vretenár, Eudovít Kubičár, Vlastimil Boháč

Monitoring of concrete setting and hardening by thermophysical measurements.

Proc.page 251

Zbyšek Pavlík, Milena Pavlíková, Petra Volfová, Martin Keppert, Robert Černý

Early age properties of cement paste with pozzolanic admixture

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13:00 LUNCH

13:40 CULTURAL PROGRAMME

19:00 SOCIAL PROGRAMME





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November 2nd 2012

Theoretical problems of thermal properties

chairman O.Koronthályová

9:00 Invited lecture (30 minutes)

Peter Šimon, Oldřich Zmeškal, Jaroslav Šesták

Application of fractals in condensed-state processes

Proc.page 207

9:30 Lectures (4 x 20 minutes) – Theoretical problems

(to 9:50)(to 10:10)(to 10:30)

Peter Matiasovsky, Peter Mihalka, Lubomir Bagel

Application of generalised Wiener mixing formula at modelling transport properties of porous materials .

Proc.page 111

Ivan Baník, Jozefa Lukovičová, Gabriela Pavlendová

Unsolved Problems in Physics of Chalcogenide Glasses and the Barrier-cluster Model .

Proc.page 10

Peter Matiasovsky, Bozena Vasilkovova, Peter Mihalka

Capillary condensation sorption model and its validity for highly porous building materials.

Proc.page 116

Andrés Gómez Ruiz, Ludovít Kubičár, Viliam Vretenár

Simulations of Hot-Ball sensors using COMSOL .

Proc.page 48

10:50 COFFEE BREAK (20 minutes)

Moisture related problems

chairman Z.Pavlík

11:10 Lectures (5 x 20 minutes), (to 11:30)(to 11:50)(to12:10)(to12:30)(to12:50)

Ludovít Kubičár, Danica Fidiriková, Vladimír Štofanič

Monitoring of the temperature-moisture regime of the wall of St. Martin Cathedral tower in Bratislava .

Proc.page 85

Patricia Ekkertová, Ivana Šimková, Martin Brček, Tatiana Durmeková, Vlastimil Boháč

Influences of temperature change and moisture content on the thermal conductivity of rocks.

Proc.page 33

Olga Koronthalyova, Peter Mihalka

Simplified modelling of hygric performance of a hysteretic building material exposed to cyclic changes of relative humidity .

Proc.page 73

S. Olof Mundt-Petersen, Petter Wallentén, Tomi Toratti, Jorma Heikkinen

Moisture risk evaluation and determination of required measures to avoid mould damage using the Folos 2D visual mould chart .

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Christ Glorieux

High resolution - high sensitivity adiabatic calorimeter

Not in Proceedings

13:00 LUNCH

13:40 MEETING OF THERMOPHYSICAL SOCIETY

