



Thermophysics 2016

October 12th – 14th, 2016, Hotel Jánošík, Terchová, Slovakia

Conference programme

October 12th – 14th, 2016

**21st annual meeting of the Thermophysical Society and Working
Group of the Slovak Physical Society**





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October 12th – 14th, 2016, Hotel Jánošík, Terchová, Slovakia

Wednesday, October 12, 2016

13:00 – 14:45 Conference registration

13:00 – 14:30 Lunch

14:50 Conference opening

15:00 Keynote lecture (30 minutes)

chairman Igor Medved'

Ludovít Kubičár

THERMOPHYSICS IN SLOVAKIA

15:30 Invited lecture (30 minutes)

chairman Oldřich Zmeškal

Nenad Milošević, Nenad Stepanić, Marijana Terzić, and Ivana Nikolić

MEASUREMENTS OF THERMOPHYSICAL PROPERTIES OF SOLIDS AT THE INSTITUTE VINČA

16:00 Lectures (2 x 20 minutes)

Lukáš Fiala, Igor Medved', Jiří Maděra, and Robert Černý

SEEBECK EFFECT INFLUENCE ON JOULE HEAT EVOLUTION IN ELECTRICALLY CONDUCTIVE SILICATE

MATERIALS

Václav Kočí and Robert Černý

EFFECT OF WATER-ICE PHASE CHANGE ON THERMAL PERFORMANCE OF BUILDING MATERIALS

16:40 Coffee break (20 minutes)

17:00 Lectures (4 x 20 minutes)

chairman Peter Matiašovský

Mattias Gustavsson, Andrey Sizov, Daniel Cederkrantz, Åsa Haglund, Yi Ma, Johan Gustavsson, Besira

Mihiretie, and Silas Gustafsson

THERMAL TRANSPORT PROPERTY TESTING OF ANISOTROPIC AND INHOMOGENEOUS SAMPLES WITH THE HOT

DISK AND HOT STRIP TECHNIQUE

Vlastimil Boháč, Peter Dieška, Viliam Vretenár, and Vladimír Lukáč

NEW WAY OF MEASUREMENT OF THERMOPHYSICAL PROPERTIES OF CLAY LOAM MATERIALS BY TRANSIENT

METHODS

Chiemi Iba, Kazuma Fukui, and Shuichi Hokoi

MOISTURE CHARACTERISTICS OF WATER-REPELLENT CONSOLIDANTS AND THEIR APPLICABILITY TO EXISTING

BUILDINGS

Jan Kočí and Robert Černý

ASSESSMENT OF MATERIAL DEGRADATION CONSIDERING THE CHARACTERISTICS OF ITS PORE STRUCTURE

19:00 Dinner



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Thursday, October 13, 2016

9:00 Invited lecture (30 minutes)

chairman Zbyšek Pavlík

Daniel Lager

THERMAL ANALYSIS ON ORGANIC PHASE CHANGE MATERIALS FOR HEAT STORAGE APPLICATIONS

9:30 Lectures (4 x 20 minutes)

Lukasz Guz, Henryk Sobczuk, Bernard Polednik, and Ewa Guz

CALIBRATION OF THERMOCOUPLE PSYCHROMETERS AND MOISTURE MEASUREMENTS IN POROUS MATERIALS

Bernard Polednik, Lukasz Guz, Mariusz Skwarczyński, and Marzenna R. Dudzińska

THERMAL CONDITIONS AND PERCEIVED AIR QUALITY IN AN AIR-CONDITIONED AUDITORIUM

Jiří Vala and Petra Jarošová

COMPUTATIONAL ASPECTS OF HOT-WIRE IDENTIFICATION OF THERMAL CONDUCTIVITY AND DIFFUSIVITY UNDER HIGH TEMPERATURE

Jaroslav Pokorný, Milena Pavlíková, Martina Záleská, Pavla Rovnaníková, and Zbyšek Pavlík

COAGULATED SILICA - A-SIO₂ ADMIXTURE IN CEMENT PASTE

10:50 Coffee break (20 minutes)

11:10 Invited lecture (30 minutes)

chairman Eudovít Kubičár

Zbigniew Suchorab, Henryk Sobczuk, and Grzegorz Łagód

ESTIMATION OF BUILDING MATERIAL MOISTURE USING NON-INVASIVE TDR SENSORS

11:40 Lectures (4 x 20 minutes)

Wakana Araoka, Shuichi Hokoi, Daisuke Ogura, Yonghui Li, and Shi Hu

DETERIORATION AND PRESERVATION OF CITY WALL IN NANJING

Yi Ma, Johan Gustavsson, Åsa Haglund, Mattias Gustavsson, and Silas Gustafsson

PULSE TRANSIENT HOT STRIP TECHNIQUE - A UNIQUE METHOD FOR MEASURING ANISOTROPIC THERMAL TRANSPORT PROPERTIES OF THIN FILM MATERIALS

Petra Jarošová and Jiří Vala

ON A COMPUTATIONAL MODEL OF BUILDING THERMAL DYNAMIC RESPONSE

Oľga Koronthályová

WATER VAPOR SORPTION HYSTERESIS OF CERAMIC BRICKS

13:00 Lunch

14:00 Cultural programme

18:30 Conference dinner



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Friday, October 14, 2016

9:00 Lectures (4 x 20 minutes)

chairman Vlastimil Boháč

Peter Mihálka and Peter Matiašovský

CFD SIMULATION OF SIMULTANEOUS MONOTONIC COOLING AND SURFACE HEAT TRANSFER COEFFICIENT

Ivan Baník, Marian Kubliha, Vladimír Labaš, Jozefa Lukovičová, Gabriela Pavlendová, and Peter Šín

ORDER AND DISORDER AND THEIR INFLUENCES ON OPTICAL ABSORPTION OF GLASSES IN THE GAP REGION

Ján Hudec, Christ Glorieux, Peter Dieška, and Ľudovít Kubičár

EXPERIMENTAL COMPARISON AND VALIDATION OF HOT-BALL METHOD WITH GUARDED HOT PLATE METHOD ON POLYURETHANE FOAMS

Lucie Trhlíková, Oldrich Zmeskal, Petr Psencik, and Pavel Florian

STUDY OF THE THERMAL PROPERTIES OF FILAMENTS FOR 3D PRINTING

10:20 Coffee break (20 minutes)

10:40 Lectures (3 x 20 minutes)

chairman Jiří Vala

Barbora Kotryová, Ján Ondruška, Igor Štubňa, and Peter Bačík

THERMOANALYTICAL INVESTIGATION OF ANCIENT POTTERY

Tomáš Húlan, Anton Trník, Igor Medved', Igor Štubňa, and Tiit Kaljuvee

BUILDING CERAMICS WITH AN ADDITION OF PULVERIZED COMBUSTION FLY ASH FROM THE THERMAL POWER PLANT NOVÁKY

Ivana Sunitrová and Anton Trník

YOUNG'S MODULUS AND THERMAL EXPANSION OF CERAMIC SAMPLES MADE FROM KAOLIN AND ZEOLITE

11:40 Closing ceremony

12:00 Lunch
