



Thermophysics 2023

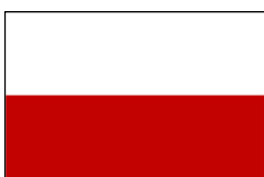
October 3rd – 5th, 2023

DALESICE BREWERY, Dalešice, Czech Republic

Conference program

28th meeting of THERMOPHYSICS

<http://thermophysics.fch.vut.cz>



Sponsorship





Thermophysics 2023

October 3rd – 5th, 2023

DALESICE BREWERY, Dalešice, Czech Republic

Tuesday, October 3, 2023

11:00 – 14:00 Conference registration

12:30 – 14:00 Lunch

14:20 Conference opening

14:30 Invited Lectures (3 × 30 minutes)

chairman: Oldřich Zmeškal

Daniel Lager

EVALUATION OF THERMOPHYSICAL PROPERTIES FOR ENERGY STORAGE MATERIALS (032)

Andrey Sizov, Mattias Gustavsson

STRUCTURAL CHARACTERISATION WITH THE HOT DISK THERMAL CONSTANTS ANALYSER (035)

Anna-Marie Lauermannová

COMPOSITES BASED ON MOC WITH TAILORED MATERIAL PROPERTIES FOR GREEN CONSTRUCTION (033)

16:00 Lectures (3 × 20 minutes)

chairman: Oldřich Zmeškal

Jan Sklenka, Michal Lojka, Filip Antončík, Anna-Marie Lauermannová, Tomáš Hlásek, David Sedmidubský, Adéla Jiříčková and Ondřej Jankovský

OPTIMIZED TSMG OF EUBCO/AG BULKS USING MULTISEEDING AND BUFFER PELLETS (018)

Kryštof Skrbek, Vilém Bartůněk and David Sedmidubský

SPECIFIC HEAT CAPACITY MEASUREMENT OF MOLTEN SALT SYSTEMS (019)

Vladislav Kozák, Jiří Vala

PREDICTION OF THE HIGH TEMPERATURE CRACK PROPAGATION IN THE AISI 304L STEEL USING THE COHESIVE APPROACH (011)

17:00 Coffee Break (20 minutes)

17:20 Lectures (5 × 20 minutes)

chairman Vlastimil Boháč

Yerzhan Belyayev, Amankeldy Toleukhanov, Yelnar Yerdesh, Abzal Seitov, Abdurashid Aliuly, Olivier Botella

NUMERICAL SIMULATION OF CASCADE LATENT HEAT THERMAL ENERGY STORAGE DEVICE THERMAL PERFORMANCE USING MULTIPLE PCMS (001)

Amankeldy Toleukhanov, Yerzhan Belyayev, Yelnar Yerdesh, Abzal Seitov, Tannur Amanzholov, Huasheng Wang

ENERGY AND EXERGY PERFORMANCE STUDY OF GROUND SOURCE HEAT PUMP IN CONTINENTAL CLIMATE CONDITIONS (002)

Stevan Gavranovic, Oldřich Zmeškal, Jana Holečková, Jan Pospíšil

STUDY OF THE ELECTRICAL PROPERTIES OF LARGE-SCALE ELECTROLUMINESCENT PEROVSKITE PANELS (008)

Jan Blahut, Lucie Maráčková, Oldřich Zmeškal, Jan Pospíšil

DETERMINATION OF ORGANIC ELECTROCHEMICAL TRANSISTOR PARAMETERS (003)

Tereza Lapčíková, Oldřich Zmeškal, Přemysl Menčík, Radek Příkryl

STUDY OF ENERGY ACCUMULATION PROCESS AT PHASE CONVERSION OF PARAFFIN WAXES (012)

18:30 Dinner



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Wednesday, October 4, 2023

9:00 Invited Lecture (2 × 30 minutes)

chairman: Ondřej Jankovský

Rupanwita Das Mahapatra, Bimal Kumar Sarkar, and Oldrich Zmeskal

THERMAL VARIATIONS OF ELASTIC PROPERTIES OF SOLIDS USING EOS, BASED ON FINITE STRAIN (013)

Ivo Nezbeda

THERMODYNAMIC PROPERTIES OF LIQUIDS FROM EQUATIONS OF STATE: A REVIEW OF THE LATEST DEVELOPMENT (034)

10:00 Lectures 4 × 20 minutes)

Jarosław Zubrzycki, Michał Staniszewski, Zbyšek Pavlík, Magdalena Matysiak, Grzegorz Łagód

A THERMAL IMAGING ANALYSIS OF TEMPERATURE DISTRIBUTION ON THE HUMAN SKIN DURING STRENGTH TRAINING EXERCISES (022)

Vlastimil Boháč, Rupali Tiwari, Viliam Vretenár, Vladimír Štofanič, Luboš Křišťák, Roman Réh, Valentina Lo Giudice, Luigi Todaro

THE INFLUENCE OF THE FLATNESS OF THE ORANGE-OAK HIGH DENSITY BOARD COMPOSITE SAMPLE ON THE ACCURACY OF THE MEASUREMENT OF THERMAL PROPERTIES (004)

Rupali Tiwari, Richard Hrčka, Lubos Kristak, Roman Reh

AN EXPERIMENTAL STUDY INVESTIGATING THERMOPHYSICAL PROPERTIES OF HISTORICAL WOOD ABELIS ALBA USING THE HOT DISK METHOD (020)

Richard Hrčka

THE MODEL OF BOUND WATER DIFFUSION IN WOOD (010)

11:20 Coffee Break (20 minutes)

11:30 Lectures (3 × 20 minutes)

chairman: Zbyšek Pavlík

Adam Pivák, Milena Pavlíková, Zbyšek Pavlík

EVALUATION OF THE EFFECT OF MWCNT ENHANCEMENT ON NATURAL HYDRAULIC LIME MORTARS (015)

Alexandra Merglová, Martina Záleská, Milena Pavlíková, Grzegorz Łagód, Zbyšek Pavlík

EVALUATION OF THE SUITABILITY OF USING FLY ASH FROM COAL COMBUSTION CONTAINING HEAVY METALS IN A CEMENT-BASED COMPOSITES (014)

Matěj Dolenský, Martina Záleská, Milena Pavlíková, Jana Nábělková, Łukasz Guz, Zbyšek Pavlík

ASSESSMENT OF MAGNESIUM POTASSIUM PHOSPHATE CEMENT MATRIX FOR HEAVY METALS IMMOBILIZATION (006)

13:00 Lunch

14:00 Cultural Program

15:30 Visiting of Bítov castle

18:30 Conference Dinner



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Thursday, October 5, 2023

09:00 Discussion to Poster Session

chairman: Oldřich Zmeškal

9:00 Virtual lectures (2 × 20 minutes)

Ondřej Jankovský, Anna-Marie Lauermannová

RECENT ADVANCES IN MAGNESIA-BASED COMPOSITES WITH CARBON-BASED NANOMATERIALS (030)

Martina Záleská, Adam Pivák, Milena Pavlíková, Jana Nábělková, Zbyšek Pavlík

INFLUENCE OF HEAVY METALS ON THE PROPERTIES OF COAL FLY ASH-PORTLAND CEMENT COMPOSITES (021)

POSTERS:

Adéla Kubištová, Anna-Marie Lauermannová, Adéla Jiříčková, Zbyšek Pavlík and Ondřej Jankovský

COMPOSITES BASED ON REACTIVE MAGNESIA WITH CARBON-RICH WASTE MATERIALS (031)

Przemysław Brzyski, Łukasz Skibiński, Zbyšek Pavlík, Elżbieta Woško, Sylwia Łagód, Grzegorz Łagód

SELECTED PROPERTIES OF THERMAL-INSULATING CLAY MORTARS WITH AN ADMIXTURE OF CASEIN (005)

Ondřej Fuciman, Monika Manychová

APPROXIMATION OF THE PARTIAL PRESSURE OF SATURATED WATER VAPOUR IN THE GLASER MODEL (007)

Łukasz Guz, Dariusz Gawel, Sylwia Łagód, Ewa Guz, Zbyšek Pavlík

ANALYSIS OF FLUID VELOCITY IN BOREHOLE GROUND HEAT EXCHANGERS CONNECTED IN THE TICHELMANN SYSTEM (009)

Jan Plachý, Pavlína Charvátová, Tomáš Navara

THE EFFECT OF VENTILATION IN RESIDENTIAL BUILDINGS ON THE INDOOR ENVIRONMENT (016)

Jaroslav Pokorný, Jiří Šál, Manuel Alejandro Pedreño-Rojas

THE EFFECT OF RECYCLED AGGREGATE ON PROPERTIES OF CEMENT-BASED COMPOSITES (017)

10:35 Closing session



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List of participants

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