



Thermophysics 2021

September 7th – 9th, 2021

DALESICE BREWERY, Dalešice, Czech Republic

Conference programme

26th meeting of THERMOPHYSICS





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Tuesday, September 7, 2021

11:00 – 14:30 Conference registration

12:30 – 14:15 Lunch

14:30 Conference opening

14:40 Invited lecture (40 minutes)

chairman Oldřich Zmeškal

Bimal Kumar Sarkar (virtual)

DFT CALCULATIONS OF THERMO-MECHANICAL PROPERTIES OF BE-CHALCOGENIDES

15:20 Lecture (2 × 20 minutes)

chairman Oldřich Zmeškal

Anna-Marie Lauermannová, Michal Lojka, Filip Antončík, Zbyšek Pavlík, Milena Pavlíková, Adam Pivák, and Ondřej Jankovský

MOC-BASED COMPOSITES FOR THE CONSTRUCTION USE

Anna-Marie Lauermannová, David Sedmidubský, Ivana Faltysová, Zbyšek Pavlík, Milena Pavlíková, Martina Záleská, and Ondřej Jankovský

MOC-GRAPHENE COMPOSITES WITH REGOLITH FOR EXTRA-TERRESTRIAL CONSTRUCTIONS

16:00 Coffee break (20 minutes)

16:20 Lectures (4 × 20 minutes)

chairman Vlastimil Boháč

Michal Lojka, Tomáš Hlášek, Filip Antončík, David Sedmidubský, and Ondřej Jankovský

OPTIMIZATION OF PREPARATION OF SUPERCONDUCTING CERAMICS BASED ON REBCO IN THE FORM OF SINGLE-DOMAIN BULKS

Michal Lojka, Jan Sklenka, Tomáš Hlášek, Filip Antončík, Anna-Marie Lauermannová, Ondřej Jankovský

RECYCLING TECHNOLOGY OF IMPERFECTLY GROWN YBCO CRYSTALS USING NITRIC ACID

Kryštof Skrbek, Vilém Bartůněk, and David Sedmidubský

SPECIFIC HEAT CAPACITY MEASUREMENT OF MOLTEN SALT SYSTEMS

Adéla Kapicová, Martina Záleská, Adam Pivák, Andrzej Szewczak, and Zbyšek Pavlík

THE COMPREHENSIVE ANALYSIS OF FLOOR AND SOFFIT PANEL DESIGNED FOR DEMOUNTABLE CONSTRUCTION SYSTEMS

18:30 Dinner



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Wednesday, September 8, 2021

9:00 Lectures (4 × 20 minutes)

chairman Ondřej Jankovský

Vlastimil Boháč, Rupali Tiwari, Peter Dieška, and Viliam Vretenár

ANALYSIS OF THE INFLUENCE OF THE HEAT SOURCE HEAT CAPACITY AND THE HEAT TRANSFER COEFFICIENT IN BETWEEN HEAT SOURCE AND SPECIMEN FOR THE PULSE AND STEP-WISE TRANSIENT MEHTODS

Rupali Tiwari, Vlastimil Boháč, and Peter Dieška

VERIFICATION OF THE SLAB MODEL FOR PULSE TRANSIENT TECHNIQUE USING LABORATORY REFERENCE MATERIAL PMMA

Vladislav Kozák, and Jiří Vala

PREDICTION OF FRACTURE BEHAVIOUR OF STRUCTURAL STEELS USING TEMPERATURE-DEPENDENT LOCAL APPROACH

Peter Mihálka and Peter Matiašovský

CORRELATION BETWEEN EXTERNAL BOUNDARY CONDITIONS AND CONVECTIVE HEAT TRANSFER AT PV PANEL

10:20 Coffee break (20 minutes)

10:40 Lectures (4 × 20 minutes)

chairman Vlastimil Boháč

Šimon Marušiak, Milena Pavlíková, Małgorzata Szafraniec, and Zbyšek Pavlík

THERMAL PROPERTIES OF NATURAL HYDRAULIC LIME-BASED PLASTERING REPAIR MORTARS WITH EXPANDED GLASS GRANULATE

Adam Pivák, Milena Pavlíková, Martina Záleská, and Zbyšek Pavlík

TEMPERATURE DEPENDENT THERMOPHYSICAL PARAMETERS OF AGGLOMERATED WOOD BOARDS

Stevan Gavranovic, Jan Blahut, Oldřich Zmeškal, Jan Pospíšil, and Ivaylo Zhivkov

MEASUREMENT OF TEMPERATURE DEPENDENCES CURRENT-VOLTAGE CHARACTERISTICS OF PEROVSKITES

Lucie Maráčková, Oldřich Zmeškal , Přemysl Menčík, Radek Přikryl, and Tereza Lapčíková

SIMPLE METHOD OF THERMAL PARAMETERS DETERMINATION

12:30 Lunch

13:30 Cultural programme

18:30 Conference dinner



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Thursday, September 9, 2021

9:30 Lectures (4 × 20 minutes)

chairman Oldřich Zmeškal

Milena Pavlíková, Adéla Kapicová, Lukáš Fiala, Danuta Barnat-Hunek, Grzegorz Łagód, Zbyšek Pavlík
WATER AND NITRATE TRANSPORT IN LIME RENDER – EXPERIMENTAL AND COMPUTATIONAL ASSESSMENT

Milena Pavlíková, Adam Pivák, Karin Edel, and Zbyšek Pavlík
HIGH TEMPERATURE DILATOMETRIC MEASUREMENT OF BASALT

Tomáš Krejčí and Jaroslav Kruis
NUMERICAL SIMULATION OF CHLORIDE TRANSPORT IN PLASTERS

Ivana Faltysová, Anna-Marie Lauermannová, Michal Lojka, Zbyšek Pavlík, Milena Pavlíková, Martin Keppert, and Ondřej Jankovský
STUDY OF FORMATION OF MAGNESIUM OXYCHLORIDE PHASE MOC-518 BY ISOTHERMAL CALORIMETRY

10:35 Closing session



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List of participants

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