



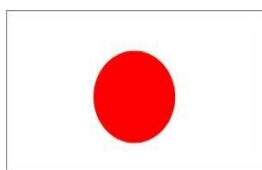
Thermophysics 2019

October 22th – 24th, 2019

Congress Center Smolenice SAS, Smolenice, Slovakia

Conference programme

24th meeting of THERMOPHYSICS





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Tuesday, October 22, 2019

11:00 – 14:30 Conference registration

13:00 – 14:15 Lunch

14:30 Conference opening

14:45 Invited lecture (30 minutes)

chairman Peter Matiasovsky

Ondrej Jankovský

SYNTHESIS AND PROPERTIES OF LAYERED NANOMATERIALS

15:15 Lectures (3 × 20 minutes)

Kryštof Skrbek and Ondřej Jankovský

SYNTHESIS AND CHARACTERIZATION OF CERIA NANOPARTICLES

Adéla Jiříčková, Michal Lojka, David Sedmidubský, and Ondřej Jankovský

FAST SYNTHESIS OF HIGHLY-OXIDIZED GRAPHENE OXIDE BY TWO-STEP OXIDATION PROCESS

Filip Antončík, Adéla Jiříčková, David Sedmidubský, Tomáš Hlášek, Michal Lojka, Ondřej Jankovský

HEAT CAPACITY AND THERMAL STABILITY OF Y₂BaCuO₅

16:15 Coffee break (15 minutes)

16:30 Lectures (4 × 20 minutes)

chairman Ondrej Jankovský

Michal Lojka, Adéla Jiříčková, Anna-Marie Lauermannová, Milena Pavlíková, Zbyšek Pavlík and Ondřej Jankovský

KINETICS OF FORMATION AND THERMAL STABILITY OF Mg₂(OH)₃Cl·4 H₂O

Daisuke Ogura, Yuki Nakata, Shuichi Hokoji, Hiromi Takabayashi, Ken Okada, Bomin Su and P. Xue

INFLUENCE OF LIGHT ENVIRONMENT ON DETERIORATION OF MURAL PAINTINGS IN MOGAO CAVE 285, DUNHUANG

Jaroslav Pokorný, Lucie Zemanová, Milena Pavlíková, Šimon Marušiak and Zbyšek Pavlík

THERMAL PROPERTIES OF LIME-BASED PLASTERS WITH EXPANDED GLASS GRANULATE

Jaroslav Pokorný, Lucie Zemanová, Milena Pavlíková, Zbyšek Pavlík

PROPERTIES OF ALKALI-ACTIVATED COMPOSITES CONTAINING BIOMASS ASH

19:00 Dinner



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Wednesday, October 23, 2019

9:00 Invited lecture (30 minutes)

chairman Vlastimil Boháč

Mattias Gustavsson

TESTING THERMAL EFFUSIVITY WITH THE HOT DISK AND HOT STRIP TECHNIQUE

9:30 Lectures (3 × 20 minutes)

Vlastimil Boháč, Peter Dieška, Rupali Tiwari, Viliam Vretenár

INFLUENCE OF THE THERMAL HEAT RESISTANCE AND THE HEAT CAPACITY OF THE HEAT SOURCE DISTURBANCE EFFECTS FOR THE MEASUREMENT ACCURACY OF THE PARAMETERS ESTIMATION BY MEANS OF TRANSIENT METHODS

Rupali Tiwari, Vlastimil Boháč, Peter Dieška and Viliam Vretenár

THE INFLUENCE OF SURFACE ROUGHNESS ON THE MEASUREMENT OF THERMOPHYSICAL PROPERTIES OF NATURAL STONES

Pavlo Lishchuk, Ali Belarouci Roman Tkach, Kateryna Dubyk, Roman Ostapenko, Vasyl Kuryliuk, Guillaume Castanet, Svitlana Naumenko, Andrey Kuzmich, Fabrice Lemoine, Vladimir Lysenko, David Lacroix and Mykola Isaiev

IMPACT OF THERMAL ANNEALING ON PHOTOACOUSTIC RESPONSE AND HEAT TRANSPORT IN POROUS SILICON BASED NANOSTRUCTURED MATERIALS

10:30 Coffee break (15 minutes)

10:45 Lectures (4 × 20 minutes)

chairman Zbyšek Pavlík

Tomasz Ślęzak, Janusz Zmywaczyk and Piotr Koniorczyk

THERMAL DIFFUSIVITY INVESTIGATIONS OF THE TITANIUM GRADE 1 IN WIDE TEMPERATURE RANGE

Tomasz Ślęzak, Piotr Koniorczyk and Janusz Zmywaczyk

DSC INVESTIGATIONS OF TITANIUM GRADE 1 IN A WIDE TEMPERATURE RANGE

Mateusz Zieliński, Janusz Zmywaczyk, Piotr Koniorczyk, Marcin Cegła

THERMAL DIFFUSIVITY INVESTIGATIONS OF THE HIGH STRENGTH STEEL S960QL IN WIDE TEMPERATURE RANGE

Piotr Koniorczyk, Janusz Zmywaczyk, Andrzej Dębski, Mateusz Zieliński, Marcin Cegła

INVESTIGATIONS OF THERMAL DIFFUSIVITY AND THERMAL EXPANSION FOR THREE TYPES OF THE BARREL STEEL

12:30 Lunch

13:30 Cultural programme

18:30 Conference dinner



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Thursday, October 24, 2019

9:00 Lectures (2 × 20 minutes)

chairman Oldřich Zmeškal

Lucie Marackova, Jan Pospisil, Lukas Mracek, Tomas Syrovy, Ales Hamacek, and Oldrich Zmeskal

TEMPERATURE MODULATED FIELD EFFECT IN ORGANIC ELECTROCHEMICAL TRANSISTOR WITH IONIC LIQUIDS

Jiří Vala

REMARKS TO THE COMPUTATIONAL ANALYSIS OF SEMILINEAR DIRECT AND INVERSE PROBLEMS OF HEAT TRANSFER

9:40 Coffee break (15 minutes)

9:55 Lectures (2 × 20 minutes)

Gabriela Pavlendová and Peter Šín

THE INFLUENCE OF CONCRETE ADDITIVES ON THE THERMOPHYSICAL PROPERTIES CHANGE AFTER FREEZE-THAW CYCLES

Peter Matiašovský and Peter Mihálka

CAPILLARY MOISTURE CONTENT - PARAMETER OF WATER SUCTION AND DRYING

10:35 Closing ceremony

12:00 Lunch
