

2nd Journal of Thermal Analysis and Calorimetry Conference (2nd JTACC+V4 2019)

June 18–21, 2019 Budapest, Hungary / Danubius Hotel Helia

FINAL PROGRAM

Tuesday, June 18

2:00 PM - 4:00 PM

Registration
Danubius Hotel Helia Lobby

Helia

4:00 PM - 4:35 PM

Welcome Remarks

4:35 PM - 5:00 PM

JTACC Award Ceremony
Travel Grants & Best Reviewer Award &
Young Scientist Award

5:00 PM - 5:40 PM

Alexander Bannov
JTAC Young Scientist Award lecture:
Thermal Analysis of Carbon Nanomaterials:
Advantages and Problems of Interpretation

5:40 PM - 5:45 PM

Scientific Excellence Award Ceremony

5:45 PM - 6:25 PM

Barbara Pacewska
JTAC Scientific Excellence Award lecture
Utilization of aluminosilicate by-products in
binding mixtures - benefits and limitations

Helia Gallery

6:30 PM - 8:00 PM

Welcome Reception & Poster Session 1

Wednesday, June 19

8:00 AM - 8:30 AM

Registration
Danubius Hotel Helia Lobby

Helia

Session Chair: Peter Simon

8:30 AM - 9:10 AM	Plenary / Michael Feist: PulseTA, a promising extension of coupled TA devices and its contribution to the chemistry of fluorides			
9:10 AM - 9:30 AM	Gold Sponsor Lecture Angela Hammer, Mettler Toledo			
9:30 AM - 9:50 AM	Coffee Break			
	Orion	Helia	Mercure	Panorama
	Nanofluid, Heat transfer, Energy conversion, Exergy I.	Materials science, Geosciences I.	Pharmaceuticals, Fuel, Biofuels, Cultural Heritage I.	Energetic materials I.
	Session Chair: Chi-Min Shu	Session Chair: Tiit Kaljuvee	Session Chair: Egon Schnitzler	Session Chair: Susan V. Meschel
9:50 AM - 10:20 AM	Invited Speaker / Omid Mahian: Application of Nanofluids in Renewable Energy	Invited Speaker / Stefano Vecchio Cipriotti: Thermal analysis study of vaporization of ionic compounds. The case of tetramethylammonium iodide	Invited Speaker / Katalin Mészáros-Szécseyi: Thermal Analysis of Coordination Compounds with Biological Activity	Invited Speaker / Lixian Sun: Enhanced Hydrogen Storage by Doping Catalysts and Nanoconfinement and Thermal Analysis Study
10:20 AM - 10:40 AM	Vincent O. Odhiambo / HUNGARY: Thermal properties of TiO ₂ nanofibers synthesized by electrospinning using water soluble Ti-precursor	Elena V. Boldyreva / RUSSIA: JTAC and its role in my scientific career	Eder T.G. Cavalheiro / BRAZIL: Thermal behavior of anti-inflammatory drug naproxen	Michael L. Hobbs / USA: Estimating RDX Solubility in TNT at the Melting Point of RDX (198-204 °C)
10:40 AM - 11:00 AM	Yaru Li / CHINA: Reactivity of fluororubber modified aluminum in terms of heat transfer effect	Thomas Dippong / ROMANIA: Thermal behavior of Ni-Zn ferrite nanoparticles embedded in silica and PVA matrix	Agnieszka Dolega / POLAND: Physical stability evaluation of carbamazepine	Izabela Majchrzak-Kucęba / POLAND: The potential of biocarbon as CO ₂ adsorbent in VPSA unit
11:00 AM - 11:20 AM	Dong Ho Shin / SOUTH KOREA: A study on the control of thermal performance using bimetal fin channel in heat exchanger	Takuya Hashimoto / JAPAN: Evaluation of Stability of Pr ₂ -xNd _x NiO _{4+δ} by Thermogravimetry under various oxygen partial pressures	Krisztina László / HUNGARY: Drug- matrix interactions in probe molecule loaded responsive hydrogels and implications for drug delivery	Tao Yan / CHINA: Energetic Performance and Reaction Mechanism of Nano-Aluminium Based Microspheres
11:20 AM - 11:40 AM	Fouzia Achchaq / FRANCE: In-situ real-time preliminary study of carbon felt fibres interaction with LiBr, LiOH and Li ₄ Br(OH) ₃ at microscale	Ekaterina S. Okhotnikova / RUSSIA: The study of bitumen's microstructure by modulated differential scanning calorimetry	Bernard Legendre / FRANCE: Study of the polymorphism of florfenicol by DSC and Calorimetry	YiKai Wang / CHINA: Study of the ratio of fuel to oxidant on the kinetic of ignition reaction of MT and MTV pyrotechnics by non-isothermal TG DSC technique
11:40 AM - 12:00 PM		Berta Bartha-Holló / SERBIA: The role of oxanions in the thermal decomposition of [Agpy ₄]XO ₄ .4[Agpy ₂ XO ₄] (X=Mn, Cl) double salt complexes having tetrahedral Agpy ₄ cation and three-coordinated (([? ?]N-py) ₂ Ag-[?]-OXO ₃ units	Zoltán Sebestyén / HUNGARY: Characterization of historical leathers by thermal methods	Ekkehard Füglein / GERMANY: Decomposition of Hydrogen Peroxide Investigated With Different Calorimetric Techniques
12:00 PM - 1:00 PM	Buffet Lunch // Jupiter Restaurant, Ground Floor, Danubius Hotel Helia			

	Orion		Helia		Mercure		Panorama	
	Nanofluid, Heat transfer, Energy conversion, Exergy II.		Materials science, Geosciences II.		Pharmaceuticals, Fuel, Biofuels, Cultural Heritage II.		Theory, Thermochemistry, Thermal Hazard, Calorimetry I.	
	Session Chair: Omid Mahian		Session Chair: Romana Cerc Korošec		Session Chair: Dénes Lőrinczy		Session Chair: Juan Carlos Moreno-Piraján	
1:00 PM - 1:30 PM	Invited Speaker / Mohanraj Murugesan: Thermodynamic performance of a direct expansion solar assisted heat pumps using packed bed evaporator-collector		Invited Speaker / Joan Josep Sunol: Thermal analysis: magnetic materials		Invited Speaker / Michelle Goncalves Mothé: Kinetic of thermal decomposition of light and heavy crude oils by thermal analysis		Invited Speaker / Jaroslav Sestak: Do we know what the temperature is: from Newton's cooling law to a wider understanding of thermal analysis	
1:30 PM - 1:50 PM	Marie Duquesne / FRANCE: Discharge of undercooled xylitol-erythritol eutectic blend for seasonal energy storage		Natalia Resnina / RUSSIA: Isothermal martensitic transformations in NiTi-based shape memory alloys: kinetics and strain behaviour		Mohamad Hmadeh / LEBANON: Metal-Organic Framework Catalysts for Efficient Liquid Biofuel Production		Valeri Drebushchak / RUSSIA: Simple and accurate analytical equation for the thermal expansion of solids	
1:50 PM - 2:10 PM	Liang Jiang / CHINA: Self-luminous polyethylene glycol based phase change materials for both thermal and light energy storage		Katarzyna Silarska / POLAND: Influence of crystalline and amorphous phosphate phases on electrical properties and chemical stability of BaCe0.9Y0.1O3-δ protonic conductors		Natasa Celan Korosin / SLOVENIA: The influence of pyrolytic conditions on physico-chemical properties of animal bone char		Sajal Ghosh / INDIA: Investigations of phase equilibria in LiCl-GdCl3 binary and LiCl-KCl-GdCl3 ternary systems by DTA and XRD	
2:10 PM - 2:30 PM	Fernanda Paiva Franguelli / HUNGARY: Synthesis, characterization and thermal decomposition of hexaamminecobalt(III) permanganate – [Co(NH3)6](MnO4)3 – a precursor to prepare cobalt-manganese oxides		Keisuke Watanabe / JAPAN: Thermal and spectroscopic study to investigate the effect of the thermal history on the phase behavior of the ionic liquid (C4mim)PF6		Ekaterina Kasianenko / RUSSIA: Thermal expansion of rib cartilage implants under Peltier cooling and laser heating		Igor Sedov / RUSSIA: Nanostructure and solvation properties of several protic ionic liquids	
2:30 PM - 4:00 PM	Coffee Break and Poster Session 2 / Helia Gallery							
	Orion		Helia		Mercure		Panorama	
	Nanofluid, Heat transfer, Energy, Exergy III.		Polymers, Pyrolysis. Kinetics I.		Pharmaceuticals, Fuel, Biofuels, Cultural Heritage III.		Theory, Thermochemistry, Thermal Hazard, Calorimetry II.	
	Session Chair: Yoncho Pelovski		Session Chair: Petru Budrugaec		Session Chair: Anna Michnik		Session Chair: Lixian Sun	
4:00 PM - 4:20 PM	Pawel Pasierb / POLAND: Influence of Temperature on Properties of Selected Materials for Energy Storage and Conversion Applications		Lisandra Abatti / BRAZIL: Thermal Properties of Rubber Compositions with Pecan Nutshell and Compatibilizing Agent to Retread Tires		Egon Schnitzler / BRAZIL: Thermal, structural and morphological characterisation of organic rice starch after physical treatment		Tibor Dubaj / SLOVAKIA: Isoconversional methods and kinetic parameters: A tool or a goal?	
4:20 PM - 4:40 PM	Cedric Le Bot / FRANCE: Numerical simulation of heat discharge during solidification		Fabio Faraguna / CROATIA: Low temperature behaviour of methacrylate based pour point depressants		Dénes Lőrinczy / HUNGARY: Thermal analysis of synovial fluids in different stages/infections of osteoarthritis		Petr Fiurasek / CANADA: McGill Chemistry Characterization (MC2) facility	
4:40 PM - 5:00 PM	Ligia Moga / ROMANIA: Thermal characterisation of building components having PCM layers		Yucheng He / CHINA: Flash DSC study on the Low-temperature crystal nucleation in the BLENDS OF poly(lactic acids)		Ranjit K. Verma / INDIA: Thermal analysis in studies of ball milled turmeric and thermooxidation of mustard oil		Sarah Kate Markham / IRELAND: Polarisation changes during infrared thermography using silver halide poly-crystalline infrared fiber bundle	

5:00 PM - 5:20PM	Anantha K. Kempnagari / INDIA: Effect of radiation on MHD time-dependent Casson fluid flow past an exponentially stretching curved sheet	Wenbing Hu / CHINA: Flash DSC Study on Polymer Crystallization Kinetics	Weibiao Zhou / SINGAPORE: Maltodextrin stability: impacts of salt addition, molecular weight and molecular weight distribution on thermal characteristics	Charlie O'Mahony / IRELAND: Computed thermal tomography and 3d ir thermography of buried defects: multiphysics modelling and experimental validation
5:20 PM - 5:40 PM	Jarett Nickerson / CANADA: Thermal conductivity characterization of enhanced materials: method selection and comparison	Kaneez F. Hussain / KUWAIT: Multistep Thermal Degradation Kinetics: Pyrolysis of CaSO4-Complex Obtained by Antiscalcing Effect of Maleic-Anhydride Polymer	Andrea Ferencz / HUNGARY: Blood plasma survey signals after surgery	PJ Rodríguez de Rivera / SPAIN: Human body thermal conductance determination using a calorimetric sensor with linear programming of thermostat temperature
5:40 PM - 6:00 PM	Monika Szlachta / POLAND: The thermal study of polyurethane/hydroxyapatite/chitosan composites modified with phase change material	Bo Liu / CHINA: Thermal Properties of Ethylene-vinyl Acetate Copolymer with Coal Ash and Layered Double Hydroxide Composite AS Flame Retardants	Titus Vlase / ROMANIA: TG-DTA and FT-IR analyses of various samples of mortars from Deva region	Chiara Confalonieri / ITALY: Microstructural and thermal response evolution of metallic form-stable Phase Change Materials produced from ball-milled powders
6:10 PM - 7:00 PM	JTAC Forum			

Thursday, June 20

8:00 AM - 8:30 AM	Registration Danubius Hotel Helia Lobby			
	Helia			
	Session Chair: Janusz Pielichowski			
8:30 AM - 9:10 AM	Plenary / Wei-Ping Pan: Thermal Analysis for Combustion Research: Data Interpretation and Challenges: Emission of Volatile Organic Compounds (VOCs) during Coal Combustion at Different Heating Rates			
9:10 AM - 9:30 AM	Silver Sponsor Lecture Daniel Roedolf, TA Instruments Solid-solid phase transition or melting peak : dsc with microscope accessory will let you know.			

9:30 AM - 9:50 AM Coffee Break

	Orion	Helia	Mercure	Panorama
	Nanofluid, Heat transfer, Energy conversion, Exergy IV.	Materials science, Geosciences III.	Polymers, Pyrolysis, Kinetics II.	Theory, Thermochemistry, Thermal Hazard, Calorimetry III.
	Session Chair: Paweł Pasierb	Session Chair: Elena V. Boldyreva	Session Chair: Eder T.G. Cavalheiro	Session Chair: Valeri Drebushchak

9:50 AM - 10:20 AM	Invited Speaker / Chi-Min Shu: Further investigation on calorimetric approach to appraise thermal explosion in propylene purification process.	Invited Speaker / Riko Ozao: Approaches for Better Thermal Analysis- Activities of the Standardization Working Group of JSCTA (Japan Society of Calorimetry and Thermal Analysis)	Invited Speaker / Guy Van Assche: Studying reversible reactions and chemorheological behaviour for the additive manufacturing of self-healing actuators	Invited Speaker / Qiang Xu: Discuss of some flammability parameters derived from MCC Tests
10:20 AM - 10:40 AM	Yoncho Pelovski / BULGARIA: Integrated treatment of bio-wastes for circular economy	Romulo S Angelica / BRAZIL: Dehydroxylation enthalpy standards to the quantification of Al-GOETHITES	György J. Marosi / HUNGARY: Thermal and spectroscopic evaluation of the applicability of biopolymers for pharmaceutical and engineering purposes	Joanna Schalnat / BELGIUM: Experimental and numerical sensitivity study of sources of scatter in quantitative mechanical characterisation of (filled) polymers using DMA equipment
10:40 AM - 11:00 AM	Yesid J. Rueda-Ordóñez / COLOMBIA: Valorisation of food wastes through torrefaction – thermal decomposition and kinetic analysis	Tiit Kaljuvee / ESTONIA: Thermal behaviour of Estonian phosphorites from different deposits	Masayuki Ito / JAPAN: Fundamental aspect for the evaluation of activation energy of thermal degradation of fluorine containinga elastomer by TGA	Carlton G. Slough / USA: Hyphenation of Thermogravimetric Analyzers with MS, FTIR and GC-MS
11:00 AM - 11:20 AM	Anna Shlyakhtina / RUSSIA: Features of the mechanosynthesis of proton-conducting molybdates R10Mo2O21 (R = La, Nd, Y, Er) containing magnetic (R = Nd, Er) and non-magnetic cations (R = La, Y)	Bo Liu / CHINA: Thermal Properties of Ethylene-vinyl Acetate Copolymer with Coal Ash and Layered Double Hydroxide Composite AS Flame Retardants	Jorge J. López Beceiro / SPAIN: Viscoelastic behavior of silicones with different crosslinking density	Andrei Yermalayeu / USA: Combustion calorimetry: yesterday, today and tomorrow.
11:20 AM - 11:40 AM	Bo Wu / CHINA: Phase change materials based on recycleable thermosetting polymers for thermal energy storage	Alejandro Lopez Valdivieso / MEXICO: Adsorption mechanism study of xanthates on PbS by titration microcalorimetry	Hussain Z. Magar / INDIA: Corrosion Efficacy and Thermal Stability of Novel Carboxylic-Acid Copolymers in Oil Field Brackish Water	Hong-Jang Liaw / TAIWAN: Explosion Accident of DMPAT and its Thermal Hazards
11:40 AM - 12:00 PM	Ryszard Zwierzchowski / POLAND: Energy and exergy efficiencies of sensible Thermal Energy Storage for large CHP plant in Poland	Michal Frivaldsky / SLOVAKIA: The study of the inductive heating of the molybdenum sheet	Carla C. Schmitt / BRAZIL: Thermal Analysis of Gelatin/Clay Nanocomposites Solid Polymer Electrolyte	

12:00 PM - 1:10 PM Buffet Lunch // Jupiter Restaurant, Ground Floor, Danubius Hotel Helia

	Orion	Helia	Mercure	Panorama
	Nanofluid, Heat transfer, Energy conversion, Exergy V.	Nanomaterials, Ceramics I.	Polymers, Pyrolysis, Kinetics III.	Theory, Thermochemistry, Thermal Hazard, Calorimetry IV.
	Session Chair: Pavla Honcova	Session Chair: Jaćimović Željko	Session Chair: György J. Marosi	Session Chair: Atsumi Miyake

1:10 PM - 1:30 PM	Yang Xiao-Jun / CHINA: A new fractional-order anomalous heat-conduction equation within the weakly singular kernel	Thamer A. Abdullah / HUNGARY: Synthesis, Characterization of Vanadium Pentoxide Nanoparticles and Determination of Catalase Mimetic Activity by using New Colorimetric Method	Javier Tarrío-Saavedra / SPAIN: Thermal degradation of common feed thermoplastics for fused deposition modelling	Qiyuan Xie / CHINA: Pyrolysis Characteristics of Materials for 220 kV Cable and Ignition Route Analyses
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1:30 PM - 1:50 PM	Ilmutdin Abdulagatov / RUSSIA: Simultaneous measurements of the PVT and thermal pressure coefficient of 2-propanol and derived values of internal pressure in the critical and supercritical regions	László Bakos / HUNGARY: Influence of graphene oxide composition on photocatalytic properties	Emma Jakab / HUNGARY: Thermal decomposition of biomass wastes derived from palm oil production	Elaine Bsaibess / FRANCE: Investigation of the electrocaloric effect by pASC calorimetry
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1:50 PM - 2:10 PM	Yu-Chi Cheng / TAIWAN: Discussion on the influence of coal dust dispersion pressure on minimum ignition temperature	Imane Boucenna /FRANCE: Rheology and its temperature-dependence in thermosensitive copolymer-clay systems	Anton Lisy / SLOVAKIA: Influence of Pd/C, Ru/C and RuPd/C catalysts on lignin ANALYTICAL pyrolysis connected with GC/MS	Dominika Jendrzeczyk-Handzlik /POLAND: Thermodynamic properties of liquid Au-Ga, Ga-In and Au-Ga-In systems determined from calorimetric measurements
2:10 PM - 2:30 PM	Ye Yuan / CHINA: Amplifying the enthalpy of form-stable phase change materials bearing methyl red group with UV light		Petru Budrugaec / ROMANIA: Applicability of incremental isoconversional methods to determine of the dependence of activation energy on the conversion degree corresponding to heterogeneous processes performed under arb	
2:30 PM - 4:00 PM	Coffee Break and Poster Session 3 / Helia Gallery			
	Orion	Helia	Mercure	Panorama
	Metals, Alloys, Intermetallics I.	Nanomaterials, Ceramics II.	Polymers, Pyrolysis, Kinetics IV.	Theory, Thermochemistry, Thermal Hazard, Calorimetry V.
	Session Chair: Se-Weon Choi	Session Chair: Ranjit K. Verma	Session Chair: Vladimir Logvinenko	Session Chair: Zuzana Cibulková
4:00 PM - 4:20 PM	Damian Migas / POLAND: Selection of heat treatment parameters for γ/γ' Co-based superalloys aided by DTA analysis	Agata Bartyzel / POLAND: Complexation abilities of multifunctional N, O-donor ligands toward d-Block metal ions - structural and thermal aspects	Yi Cheng / CHINA: An intersection method for evaluating the activation temperature (Top) of a chemical reaction	Long Li /CHINA: Combustion Behaviour and Thermal Stability of TPU Composites Using Layered Yttrium Hydroxide and Graphene Oxide as Flame Retardant Materials
4:20 PM - 4:40 PM	Lubomira Drozdova / CZECH R.: Investigation of Fe-C-Cr and Fe-C-Cr-Ni based systems with the use of DTA and HT-LSCM methods	Beata Cristovao / POLAND: Heteronuclear Cull/ZnII complexes with N, O-donor ligands - synthesis, crystal structures and thermal properties	Youwang Huang / CHINA: How to use properly the distributed activation energy model?	Clement Mailhe / FRANCE: Fast and low-cost calorimetry method based on infrared thermography for phase diagrams estimation
4:40 PM - 5:00 PM	Eduard Hryha / SWEDEN: Application of thermal analysis in powder metallurgy and additive manufacturing: an overview	Dimitra Kourtidou / GREECE: Study of Thermal and Mechanical properties of Crosslinked Polyethylene/Expanded Graphene Nanocomposites	Bojan Z Jankovic /SERBIA: Study of oxy-combustion of plane tree (<i>Platanus orientalis</i>) seeds in O ₂ /ARGON atmosphere including kinetic analysis by the Fraser-Suzuki deconvolution for overlapping complex reactions	Susan V. Meschel / USA: Thermochemical behavior of some 3d Transition metal-Antimony compounds by high temperature direct synthesis calorimetry
5:00 PM - 5:20 PM	Qiaoyun Huang / CHINA: Adsorption of Cd on mineral-bacteria composites at different ratios	Krzysztof Pielichowski / POLAND: Modification of nanocrystalline cellulose toward fabrication of bio-based polyamide composites	Nobuyoshi Koga / JAPAN: Kinetic analysis of the thermally induced transformations of calcium hydroxide in different gaseous atmospheres	Aravind Surendran / INDIA: Thermo-kinetic studies on Azodicarbonamide/Potassium periodate Airbag gas generants
5:20 PM - 5:40 PM	Giulio Timelli / ITALY: Performance of AlTi3Co.15 master alloy in refining grain structure of secondary AlSi7Cu3Mg foundry alloys	Georgios Psarraas / GREECE: Probing the multifunctional behaviour of barium zirconate/barium titanate/epoxy resin hybrid nanodielectrics CTRICS	Anna Kusnierz / POLAND: Influence of agglomeration of the glass set on the melting of sodium-calcium-silicate glass with increased content of substitute raw materials.	Endarto Wardhono / INDONESIA: Differential scanning calorimetry as a thermoanalytical technique in observing the evolution dispersed droplets of concentrated W/O emulsion
5:40 PM - 6:00 PM			Marek Sciazko, Bartosz Mertas / POLAND: Kinetic modelling of coking coal fluidity development	

6:00 PM - 7:00 PM	Transfer to the Dinner Venue: Royal Palace of Gödöllő
7:00 PM - 11:00 PM	JTAC 50th Anniversary Gala Dinner: Royal Palace of Gödöllő

Friday, June 21

	Helia
	Session Chair: Petra Sulcová
8:30 AM - 9:10 AM	Plenary / Géza Regdon, Jr.: Formulation, structural and thermal analysis of an innovative buccal mucoadhesive film drug delivery system from two different polymers
9:10 AM - 9:30 AM	Angela Hammer / GERMANY: Determination of the short time stability of polymers by fast scanning calorimetry

9:10 AM - 9:50 AM Coffee Break

	Orion	Helia	Mercure	Panorama
	Inorganic Materials I.	Nanomaterials, Ceramics III.	Polymers, Pyrolysis, Kinetics V.	Cement, Building materials I.
	Session Chair: Berta Barta-Holló	Session Chair: Krisztina László	Session Chair: Nobuyoshi Koga	Session Chair: Arnon Chaipanich
9:50 AM - 10:20 AM	Invited Speaker / Irina Zvereva: Thermal analysis of intercalation phenomena in promising photocatalysts	Invited Speaker / Maria Zaharescu: Thermal behavior of gels obtained by microwave-assisted sol-gel method	Invited Speaker / Dario Cavallo: Self-nucleation and heterogeneous nucleation of polypropylene micro-droplets in immiscible blends	Invited Speaker / Martin Palou: Use of calorimetry and thermal analysis to assess the mutual influence of cement and scm during the hydration of composite cementitious binders
10:20 AM - 10:40 AM	Hern Kim / SOUTH KOREA: Janus superhydrophilic/superhydrophobic nanofiber membrane decorated with CNT for oil water separation	Kazuhiro Tamura / JAPAN: High thermal conductive epoxy resin composite with titanium oxide nanoparticle modified by stearic acid and benzoic acid in supercritical carbon dioxide	Vladimir Logvinenko / RUSSIA: Thermal decomposition of clusters and coordination polymers: reaction chemism and kinetic stability	Valentin Antonovic / LITHUANIA: The effect of milled fluidized catalytic cracking catalyst waste on calcium aluminate cement hydration and structure formation of binder
10:40 AM - 11:00 AM	Edgardo Benavidez / ARGENTINA: Analysis of DTA and dilatometric data used to study the behaviour of a mould flux	Elena Yatsenko / RUSSIA: Peculiarities of foam glass synthesis from natural silica-containing raw materials	Udaya Ragula / INDIA: Catalytic and Non-catalytic Pyrolysis of Nerium Oleander	Ivan Janotka / SLOVAKIA: Resistance to carbonation of ZeoSlag by accelerated test using thermal analysis
11:00 AM - 11:20 AM	Katalin Györfi / HUNGARY: Exfoliation, surface modification and photocatalytic application of an iron-rich kaolinite	Veronika Vágvölgyi / HUNGARY: Influence of the modified iron content on the photocatalytic activity of kaolinite	Andrei Rotaru / ROMANIA: Thermal decomposition kinetics of some aromatic azomonoethers; Part V. Influence of introducing a methyl rest to the benzyloxy group of BOPPD liquid crystal	Martin Keppert / CZECH R: Phase composition of ceramic based alkali-activated polymers - combination of X-ray diffraction and thermal analysis

11:20 AM - 11:40 AM	Elena Kharitonova / RUSSIA: Polymorphism of Bi ₂ O ₃ -based compounds in Bi ₂ O ₃ -Ln ₂ O ₃ -WO ₃ (Ln = La, Pr, Nd) systems	Jaroslav Bartak / CZECH R: Crystal growth in chalcogenide glasses - combination of direct and indirect experimental methods	Peter Simon / SLOVAKIA: Importance of induction periods in the prediction of material lifetimes	Izabela Kurek / POLAND: Analysis of the properties of foamed geopolymers modified by the addition of expanded perlite
11:40 AM - 12:00 PM	Csaba Várhelyi Jr. / ROMANIA: Thermal and spectroscopical analysis of iron(II) and copper(II) complexes with azomethines	Evangelia Tarani / GREECE: Review on modeling of mechanical properties and thermal conductivity of graphene nanoplatelets reinforced high-density polyethylene composites	Branislav Stankovic / SERBIA: Application of fractal kinetics on non-isothermal dehydration, dehydroxylation, and degradation of fullerol	Ákos Lakatos / HUNGARY: Effects of the heat annealing in the properties of fibrous aerogel insulation

12:00 PM - 1:10 PM Buffet Lunch // Jupiter Restaurant, Ground Floor, Danubius Hotel Helia

	Orion	Helia	Mercure	Panorama
	Metals, Alloys, Intermetallics II.	Nanomaterials, Ceramics IV.	Polymers, Pyrolysis, Kinetics VI.	Cement, Building materials II.
	Session Chair: Krzysztof Labisz	Session Chair: János Madarász	Session Chair: Yi Cheng	Session Chair: Ákos Lakatos

1:10 PM - 1:30 PM	Gong Pan / CHINA: Crystallization kinetics of multicomponent bulk metallic glasses	Balázs Zsirka / HUNGARY: Synthesis, characterisation and photocatalytic application of halloysite-based nano-hybrids	Gábor Várhegyi / HUNGARY: Non-isothermal kinetics: Best fitting empirical models instead of model-free methods	Lenka Scheinherrová / CZECH R: Thermal analysis of ceramic-based geopolymers exposed to accelerated carbonation
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1:30 PM - 1:50 PM	Bedrich Smetana / CZECH R.: Important issues connected with differential thermal analysis of Fe-C based alloys	Maria Kavanova / CZECH R: Application of thermal analyses (TG-DTA, DIL, TMA) to the study of glazes	Günter Wuzella / AUSTRIA: Isoconversional cure kinetics of a novel thermosetting resin based on linseed oil	Alena Vimmrova / CZECH R: Changes in structure and composition of gypsum paste at high temperatures
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1:50 PM - 2:10 PM	Michaela Kotrlova / CZECH R.: Crystallization and oxidation kinetics of Zr-Cu and Zr-Hf-Cu thin-film metallic glasses	Anna Prnova / SLOVAKIA: Study of thermal behaviour and photoluminescence properties of Er and Nd doped by yttrium aluminate glasses	Shulin Bai / CHINA: Graphene filled polymer composites with enhanced thermal properties	
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2:10 PM - 2:30 PM	Johan Wendel / SWEDEN: Oxide reduction and oxygen removal in water-atomized iron powder - a kinetic study	Szymon Swinotek / POLAND: The effect of LiF on the thermal stability and thermoluminescence properties of borosilicate glasses	Sasan Moradi / SPAIN: The effect of cross-linking agent and initiator on the thermal conductivity and cure kinetics of epoxy-boron nitride composites	
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2:30 PM - 4:00 PM Coffee Break and Poster Session 4 / Helia Gallery

	Helia			
4:00 PM - 4:40 PM	Closing Ceremony			