JTACC+V4 3rd Journal of Thermal Analysis and Calorimetry Conference and 9th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference / JTACC+V4 2023

20-23 June 2023 /Balatonfüred, Hungary
Danubius Hotel Annabella

Programme*

Tuesday / 20 June

14:00-16:00	**Registration / Lobby**		
	Deák Room		
16:00-16:40	**Welcome Remarks / JTAC Best Reviewer Award and JTACC-V4 Travel Grant ceremony**		
	Chairs: Imre Miklós Szilágyi, Alfréd Kállay-Menyhárd, János Kristóf		
16:40-17:20	**Young Scientist Award Lecture / Rahim Zahedi (Iran):** Energy, exergy, exergoeconomic and exergoenvironmental analysis and optimization of quadruple combined solar, biogas, SRC and ORC cycles with methane system		
17:20-18:00	**Scientific Excellene Award Lecture / Chi-Min Shu (Taiwan):** Comprehensive exploration of critical safety issues in lithium-ion batteries via advanced calorimetry approach technique: thermal runaway and fire behavior		
	Terrace of Deák Room		
18.00-20:00	**Welcome Reception**		

Wednesday / 21 June

8:00-8:30	**Registration / Lobby**		
	Deák Room		
8:30-9:10	**Plenary / Michael L. Hobbs (USA):** Modeling delayed thermal runaway in nitric acid-soaked cat litter mixed with radioactive waste		
9:10-9:30	**Silver Sponsor Lecture: Jaroslav Kolejka (Unicam)**		
9:30-10:00	**Coffee Break & Poster Session 1. / Ground Floor Lobby**		
10:00-10:30	**Coffee Break & Poster Session 2. / Ground Floor Lobby**		
	Deák Room	**Club Room**	**Panoráma Room**
	Nanomaterials, Materials science, Metals 1.	**Fuels, Life, Bio, Pharmaceuticals, Geo, Instrumentation 1.**	**Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 1.**
	Chair: Kinga Pielichowska (Poland)	**Chair: Jiri Kucerik (Czech Republic)**	**Chair: Rudolf Pietschnig (Germany)**
10:30-11:00	**Invited / Liezel van der Merwe (South Africa)**: Thermogravimetry as a research tool during the beneficiation of diamond mine residues	**Invited / Mustafa Versan Kök (Türkiye):** Crude oil characterization: simultaneous TGA-DTA, TGA-FTIR and TGA-MS	**Invited / Omid Mahian (China):** Nanoparticles and energy systems
11:00-11:20	**Hans Flandorfer (Austria):** Self-healing anodes for Li-ion batteries: Phase relations in the systems Li-Zn and Li-Sn-Zn	**Qinzheng Teng (China):** Analysis of potassium release from paper sludge under oxygen rich combustion conditions	**John Shelton (USA):** Experimental study of the rheological behavior of nanofluids containing palmitic acid/silica nanocapsules synthesized by the sol gel method
11:20-11:40	**Dávid Mikšík (Czech Republic):** An investigation of phase behavior in the Co-Se-Sn ternary system using experiments and thermodynamic modeling	**Xiaolin Wei (China):** Optical observation and combustion properties during paper sludge fast heating	**Charlie O'Mahony (Ireland):** Determination of 3-d geometry of buried defects using angled flash thermography
11:40-12:00	**Boris Contri (France):** What if the protection against oxidation of certain chromia-forming alloys was not due to the chromia layer? Example of Inconel®625 oxidation in CO2	**Yesid J. Rueda-Ordóñez (Colombia):** Energy upgrading of the cocoa pod husk through torrefaction - thermal decomposition and kinetic analyses	**Martin Palou (Slovakia):** Effect of four-component binder on strength and microstructure characteristics of fiber-reinforced self-compacting mortars
12:00-12:20	**Raj Narayan Hajra (South Korea):** Identification of a new phase transformation of C36 → C14 for NbCr2 alloy: an experimental and First Principle calculation study	**Bence Babinszki (Hungary):** The effect of pyrolysis conditions on yield, thermal behaviour and volatile matter composition of biocarbon products	**Róbert Sánta (Hungary):** Energy analysis of U-type deep borehole ground source heat pump system
12:20-13:30	**Buffet Lunch / Tagore Room Restaurant**		
	Deák Room	**Club Room**	**Panoráma Room**
	Nanomaterials, Materials science, Metals 2.	**Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 2.**	**Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 2.**
	Chair: Maria Zaharescu (Romania)	**Chair: Titus Vlase (Romania)**	**Chair: Róbert Sánta (Hungary)**
13.30-14:00	**Invited / Dirk Walter (Germany):** "Small dwarfs – high toxic effects"? – Nanoparticles at the workplace and in the environment	**Invited / Zsuzsanna Czégény (Hungary):** Biocarbons produced under pressurized conditions: characterisation of the volatiles	**Invited / Suvanjan Bhattacharyya (India):** Thermohydraulic performance of water in an inclined circular tube fitted with spring tape inserts in transition flow regime
14:00 - 14:20	**Harsha Uskaikar (India):** Thermal and spectroscopic characterization of manganese oxide prepared by different synthesis routes	**Daniel Andrés López (Germany):** Improved deep neural network-driven automatic segmentation of skin's thermal radiation in moving posterior legs during cardiopulmonary exercise testing for time series data analysis	**Rudolf Pietschnig (Germany):** Optimizing working fluids for thermal energy storage systems using open sorption
14:20 - 14:40	**Kinga Pielichowska (Poland):** The effect of magnetic particles on the selected thermal properties of polyurethane-based biomaterials	**Jiri Kucerik (Czech Republic):** Selected applications of thermal analysis in the reseach of microplastics in soil	**Yerzhan Belyayev (Kazakhstan):** Thermal performance analysis of a heat pump assisted regenerative solar still
14:40-15:00	**Jaison Jeevanandam (Portugal):** Thermogravimetry analysis of free and gelatin hydrogel formulated nanocellulose extracted from non-native Arundo donax plant	**Mercedes Pereira Rodríguez (Spain):** Thermogravimetry as a tool to discriminate the susceptibility of different components to fibre release from the same fabric	**Shijie Liu (China):** Evaluation of mechanical vapor recompression system based on twisted oval tube evaporator for treatment of high salinity wastewater
15:00-15:20	**Thomas Dippong (Romania)**: The effect of mono, di and trivalent transition metals doping on the thermal behavior, structure and morphology of NiFe2O4@SiO2	**Edina Szabó (Hungary):** In-depth investigation of thermal behaviour of pharmaceutical amorphous solid dispersions	**Dongsheng Zhu (China):** Research on safe vibration-free modular energy saving technology of high efficiency heat exchanger
15:20-15:40	**Magdalena Sobiesiak (Poland):** Research on the carbonization process of hybrid polymer microspheres using the TGA-EGA method - evaluation of the influence of sulphanilic acid on the process	**Petr Fiurasek (Canada):** McGill chemistry characterization (MC2) facility	**Jana Čepčianska (Slovakia):** Effect of supplementary cementitious materials on the whiteness and hydration heat of white cement
15:40-16:10	**Coffee Break & Poster Session 3. / Ground Floor Lobby**		
	Deák Room	**Club Room**	**Panoráma Room**
	Ceramics, Cements, Inorganics 1.	**Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 3.**	**Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 3.**
	Chair: Martin Palou (Slovakia)	**Chair: Ignazio Blanco (Italy)**	**Chair: Stefano Vecchio Ciprioti (Italy)**
16:10-16:40	**Invited / Petra Sulcová (Czech Republic):** 50th anniversary of the foundation of Czech group for thermal analysis	**Invited / Géza Regdon, jr. (Hungary):** What is a pharmaceutical technologist pharmacist doing among thermoanalysts?	**Invited / Edward Lee-Ruff (Canada):** Strain and strange small ring organic molecules
16:40-17:00	**Sarka Zuzjakova (Czech Republic):** W–Zr thin-film metallic glasses: thermal behavior and evolution of properties	**Rishabh Dwivedi (India):** Experimental investigations on the thermo–mechanical characterization of Jalore granitic rocks for India's HLW disposal	**Ewelina Ksepko (Poland):** Thermogravimetric analysis of oxygen carriers for the application in CLC technology
17:00-17:20	**Justyna Sułowska (Poland):** Effect of melting behavior on the structure of sulfur-bearing glasses for use as a glassy fertilizers	**Mahmoud Reda (Austria)**: Thermochemical properties of tin disulfide	**Samy Yousef (Lithuania):** Gasification of surgical masks waste and its life cycle assessment
17:20-17:40	**Magdalena Szumera (Poland):** Study the influence of Fe, Mo, Mn, and Zn ions on the structure and crystallisation of soil-active glasses	**Lukas Fischer (Austria):** Self-healing anodes for LI-ION batteries: enthalpy of mixing in the liquid system Li-Zn, and Li-Sn-Zn	**Orhan Keklikcioglu (Türkiye):** Thermohydraulic performance and second law efficiency analysis of a heat exchanger tube using a combination of two heat transfer enhancement techniques
17:40-18:00	**Alena Akusevich (Slovakia):** Study of thermal behavior and sintering ability of YAG/Al2O3 glasses	**Nader Ghaffari Khaligh (Malaysia):** 2-cycloalkylsulfanyl-[1,3,4]thiadiazole-5-thiol or 5-Cyclopentylsulfanyl-3H-[1,3,4]thiadiazole-2-thione: Synthesis and Spectroscopic characterization, and single crystal XRD of new monocycle	
18:00-19:00	**JTAC Forum**		

Thursday / 22 June

8:00-8:30	**Registration / Lobby**		
	Deák Room		
8:30-9:10	**Plenary / Qiyuan Xie (China)**: Bridge the thermal analysis and fire safety engineering: new insights and challenges		
9:10-9:30	**Silver Sponsor Lecture: Laurent Zoppi (Mettler Toledo)**		
9:30-10:00	**Coffee Break & Poster Session 4. / Ground Floor Lobby**		
10:00-10:30	**Coffee Break & Poster Session 5. / Ground Floor Lobby**		
	Deák Room	**Club Room**	**Panoráma Room**
	Nanomaterials, Materials science, Metals 3.	**Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 4.**	**Polymer, pyrolysis 1.**
	Chair: Veronika Vágvölgyi (Hungary)	**Chair: Juan Carlos Moreno-Pirajan (Colombia)**	**Chair: Hua Zhang (China)**
10:30-11:00	**Invited / George Kaptay (Hungary):** Paradigm-shift in equilibria of nano-materials and some evidence from calorimetry	**Invited / Éder TG Cavalheiro (Brazil):** Thermoanalytical studies of some antioxidants	**Invited / Giuseppe Lazzara (Italy):** Microwax/halloysite nanotubes composites: a versatile material for conservation of cultural heritage
11:00 -11:20	**Irina M. Petreanu (Romania):** Nanocomposite polyfenyleneoxide with amino-functionalized silica: structural characterization based on thermal analysis	**Jose E. Delgado Liriano (France):** Adiabatic hydrogenation of alkyl levulinates to gamma valerolactone	**Sasan Moradi (Spain):** Fully recyclable vitrimers based on ternary thiol-isocyanate-epoxy dual-curing systems
11:20-11:40	**Eva Cuninková (Slovakia):** Analysis of thermo-physical and mechanical properties of the 3D printing materials applicable for superconducting TORT cables	**Sheng-Wei Liao (Taiwan):** Hazardous characteristics of abs powder: experimental analysis and safety recommendations	**Enrique Blázquez-Blázquez (Spain):** Hybrid mesoporous silica with antioxidants as a feasible approach for improving thermal protection of recycled polyolefins
11:40 -12:00	**Marián Drienovský (Slovakia):** Thermal analysis and oxidation behavior of Al-Co-Fe-Ni-Cu multiprincipal element alloys at high temperature	**Gabe Wood (USA):** Case study: calorimetry used to support scale-up of the hydrolysis of epichlorohydrin	**Olivier Fischer (Canada):** Thermogravimetric analysis and kinetic modeling of the pyrolysis of different biomass types by means of model-fitting, model-free and phenomenological modeling approaches
12:00 -12:20	**Martin Keppert (Czech Republic):** Reactivity of precursors for geopolymerisation studied by isothermal calorimetry	**Kun Fu (China):** Removal of metallic radionuclides from irradiated graphite by chlorination roasting	**Anna Vykydalová (Slovakia):** Thermal properties of PHB/PCL investigated by using DSC and TGA
12:20-12:30	**Group photo**		
12:30-13:30	**Buffet Lunch / Tagore Room Restaurant**		
	Deák Room	**Club Room**	**Panoráma Room**
	Nanomaterials, Materials science, Metals 4.	**Kinetics, Thermal hazard 1.**	**Polymer, pyrolysis 2.**
	Chair: Thomas Dippong (Romania)	**Chair: Gábor Várhegyi (Hungary)**	**Chair: Vianney Andrew Yiga (Sweden)**
13:30-14:00	**Invited / Oana Catalina Mocioiu (Romania):** Zinc oxide: thermal analysis, structure, applications	**Invited / Petru Budrugeac (Romania):** Applicability of model free isothermal prediction procedures based on the Friedman method and three incremental isoconversional methods	**Invited / Krzysztof Pielichowski (Poland):** Thermal characteristics of polyurethane/POSS hybrid materials and nanocomposites
14:00-14:20	**Veronika Vágvölgyi (Hungary)**: Halloysite – Zn-Cu/Zn-Cu/Ti-Ni oxide composite systems as potential photocatalysts	**Feng Zhang (China):** Experimental investigation on the temperature distribution of corrugated steel web box girder with and without encased concrete	**Laura S. Vázquez (Spain):** Evaluation by DSC of the Joule curing process of carbon epoxy composites
14:20-14:40	**Dániel Attila Karaje (Hungary):** Combining ZnO inverse opal and ZnO nanorods using ALD and hydrothermal growth	**Zuzana Cibulkova (Slovakia):** Thermooxidative stability of lignin- and lignosulfonate-filled rubber compounds based on NBR and SBR	**Jana Navratilova (Czech Republic):** Crystallization of long-chain branched polypropylene with nucleating agents
14:40-15:00	**Aatikah Meraj (Malaysia):** Structural, morphological and thermal properties of kenaf microcrystalline cellulose/PBAT films for packaging applications	**Kuan-Chun Chiu (Taiwan):** Study of thermal stability of ionic liquids [PYR14][DCA] in different atmospheres	**Csenge Vámos (Hungary)**: Porous polymer by solvent treatment and controlled crystallization for high solar-reflectivity and passive radiative cooling
15:00-15:20	**Mohammad Jawaid (Malaysia):** Effect of kenaf fibre loading on thermal and dynamic mechanical properties of bioepoxy composites	**Abdelhakim Settar (France)**: Kinetic analysis using isoconversional methods and fitting model of fire retardant coated on banana biocomposite reinforced by silicon carbide	**Agata Paulina Węglarska (Poland):** Aging and degradation processes in polymer coatings of optical fiber cables
15:20-15:40	**György J. Pokol (Hungary):** Thermal and spectroscopical analysis of platinum (II) complexes with glyoximes, schiff bases	**Tibor Dubaj (Slovakia):** Assessing the performance of various incremental isoconversional methods	**Lenka Gajzlerova (Czech Republic):** Morphological evolution of long-chain branched polypropylene under various processing conditions
15:40-16:10	**Coffee Break & Poster Session 6. / Ground Floor Lobby**		
17:30-18:30	Transfer to the Conference Dinner		
18:30-22:00	**Conference Dinner in Hangvilla Restaurant / Veszprém**		
22:00-23:00	Transfer to Danubius Hotel Annabella		

Friday / 23 June

8:00-8:30	**Registration / Lobby**		
	Deák Room		
8:30-9:10	**Plenary / Berta Barta Holló (Serbia):** The role of TG-MS in the characterization of coordination compounds		
9:10-9:30	**Bronze Sponsor Lecture: Ekkehard Füglein (NETZSCH)**		
9:30 - 10:00	**Coffee Break & Poster Session 7. / Ground Floor Lobby**		
10:00 -10:30	**Coffee Break & Poster Session 8. / Ground Floor Lobby**		
	Deák Room	**Club Room**	**Panoráma Room**
	Ceramics, Cements, Inorganics 2.	**Energetic, Fire**	**Polymer, pyrolysis 3.**
	Chair: Ewelina Ksepko (Poland)	**Chair: Željko Jaćimović (Montenegro)**	**Chair: Yasser Elhenawy (South Africa)**
10:30-11:00	**Invited / Ján Dusza (Slovakia):** Development of ultra - high temperature high - entropy ceramics	**Invited / László Kótai (Hungary):** Thermal activation of redox-active complexes: solid phase quasi-intramolecular redox reactions as an easy route to prepare nanosized (mixed) metal oxides	**Invited / Sabu Thomas (India):** Engineering at the nanoscale: a strategy for developing high performance functional materials from biopolymers
11:00-11:20	**Arezki Tagnit Hamou (Canada):** Measurement of pozzolans reactivity with the isothermal calorimetry and other methods	**Yang Xiao (China):** Designation of rare-earth based PVC tube associated with fluorescent and its stabilized properties	**István Sándor Czirok (Hungary):** Laboratory scale production and thermal characterization of charcoals from variously tanned leathers
11:20-11:40		**Rafal Lysowski (Poland):** Fe and Cu spinel based materials as potential oxygen carriers for biomass combustion	**Mariusz Wądrzyk (Poland):** Pyrolysis of hydrothermally pretreated carrot pomace – investigation using Py-GC-MS, Py-FT-IR, and TGA techniques
11:40-12:00		**Kazem Lakzian (Taiwan):** The minimum required flammable component renders an aqueous-organic mixture to be flammable	**Vianney Andrew Yiga (Sweden):** Pyrolysis of alkali modified rice husks: combustion, kinetics and thermodynamic parameters using thermogravimetric analysis
12:00-12:20	**Blanka Kubikova (Slovakia):** Phase equlibrium and phase analysis of molten lanthanide systems	**Guenther Carlos Krieger Filho (Brazil):** Kinetic parameters and heat of reaction for tropical forest fuels	**Branislav Stankovic (Serbia):** The kinetics analyses of non-isothermal dehydration of poly(methacrylic acid) hydrogel by application of nucleation model
12:20-13:30	**Buffet Lunch / Tagore Room Restaurant**		
	Deák Room	**Club Room**	**Panoráma Room**
	Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 4.	**Kinetics, Thermal hazard 2.**	**Polymer, pyrolysis 4.**
	Chair: Mehrdad Mesgarpour (Thailand)	**Chair: Chi-Min Shu (Taiwan)**	**Chair: Olivier Fischer (Canada)**
13:30-14:00	**Invited / Mohammad Ferdows (Bangladesh):** Thermal investigation of hybrid nanoliquid convection across moving surface	**Invited / Peter Šimon (Slovakia):** Two interpretations of isoconversional kinetic parameters	**Invited / János Móczó (Hungary):** Crystalline structure and reinforcement in natural fiber reinforced PP composites
14:00-14:20	**Hsin Yu Chi (Taiwan):** Using a GPU-based lattice Boltzmann method to investigate the heat convection of a lithium battery pack	**Mostafa Safdari Shadloo (France):** Modelling the regeneration process in soot filters using iterative lattice Boltzmann method	**Ke Wu (China):** Pyrolysis kinetics and volatile release of hydrothermally aged asphalt
14:20-14:40	**Keng Yinn Wong (Malaysia):** Is thermal-guided mobile air supply a practical measure in burn isolation wards? Potential future applications	**Gábor Várhegyi (Hungary):** Can varying activation energy be determined reliably from thermoanalytical experiments?	**Hua Zhang (China)**: From plastics to carbon materials and methane by pyrolysis under autogenic atmosphere
14:40-15:00	**M. Ziya Sogut (Türkiyo):** Low carbon approach with the low-temperature air distribution in air conditionng applications	**Maciej Kaniewski (Poland):** Thermal decomposition kinetics of ammonium nitrate - the issue that is yet to be fully resolved	**Zoltán Sebestény (Hungary):** Thermal decomposition of PVC and leather mixtures
15:00-15:30	**Coffee Break & Poster Session 9. / Ground Floor Lobby**		
15:30-16:00	**Closing**		

* 18/06 The organizers reserve the right to make changes in the programme

Type	Last name	First name	Country	Abstract title
Ceramics, Cements, Inorganics 1.: Deák Room / Wednesday, 21 June 16:10-18:00				
Invited	Sulcová	Petra	Czech Republic	50th anniversary of the foundation of Czech group for thermal analysis
Oral	Zuzjakova	Sarka	Czech Republic	W–Zr thin-film metallic glasses: thermal behavior and evolution of properties
	Sułowska	Justyna	Poland	Effect of melting behavior on the structure of sulfur-bearing glasses for use as a glassy fertilizers
	Szumera	Magdalena	Poland	Study the influence of Fe, Mo, Mn, and Zn ions on the structure and crystallisation of soil-active glasses
	Akusevich	Alena	Slovakia	Study of thermal behavior and sintering ability of YAG/Al2O3 glasses
Ceramics, Cements, Inorganics 2.: Deák Room / Friday, 23 June 10:30-12:20				
Invited	Dusza	Jan	Slovakia	Development of ultra - high temperature high - entropy ceramics
Oral	Tagnit Hamou	Arezki	Canada	Measurement of pozzolans reactivity with the isothermal calorimetry and other methods
	Palou	Martin	Slovakia	Effect of four-component binder on strength and microstructure characteristics of fiber-reinforced self-compacting mortars
	Čepčianska	Jana	Slovakia	Effect of supplementary cementitious materials on the whiteness and hydration heat of white cement
	Kubikova	Blanka	Slovakia	Phase equlibrium and phase analysis of molten lanthanide systems
Energetic, Fire: Club Room / Friday, 23 June 10:30-12:20				
Invited	Kótai	László	Hungary	Thermal activation of redox-active complexes: solid phase quasi-intramolecular redox reactions as an easy route to prepare nanosized (mixed) metal oxides
Oral	Xiao	Yang	China	Designation of rare-earth based PVC tube associated with fluorescent and its stabilized properties
	Lysowski	Rafal	Poland	Fe and Cu spinel based materials as potential oxygen carriers for biomass combustion
	Lakzian	Kazem	Taiwan	The minimum required flammable component renders an aqueous-organic mixture to be flammable
	Krieger Filho	Guenther Carlos	Brazil	Kinetic parameters and heat of reaction for tropical forest fuels
Fuels, Life, Bio, Pharmaceuticals, Geo, Instrumentation 1.: Club Room / Wednesday, 21 June 10:30-12:20				
Invited	Kok	Mustafa Versan	Türkiye	Crude oil characterization: simultaneous TGA-DTA, TGA-FTIR and TGA-MS
	Teng	Qinzheng	China	Analysis of potassium release from paper sludge under oxygen rich combustion conditions
	Wei	Xiaolin	China	Optical observation and combustion properties during paper sludge fast heating
	Rueda-Ordóñez	Yesid J.	Colombia	Energy upgrading of the cocoa pod husk through torrefaction - thermal decomposition and kinetic analyses
	Babinszki	Bence	Hungary	The effect of pyrolysis conditions on yield, thermal behaviour and volatile matter composition of biocarbon products
Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 2.: Club Room / Wednesday, 21 June 13:30-15:40				
Invited	Czégény	Zsuzsanna	Hungary	Biocarbons produced under pressurized conditions: characterisation of the volatiles
Oral	Andrés López	Daniel	Germany	Improved deep neural network-driven automatic segmentation of skin’s thermal radiation in moving posterior legs during cardiopulmonary exercise testing for time series data analysis
	Kucerik	Jiri	Czech Republic	Selected applications of thermal analysis in the reseach of microplastics in soil
	Pereira Rodríguez	Mercedes	Spain	Thermogravimetry as a tool to discriminate the susceptibility of different components to fibre release from the same fabric
	Szabó	Edina	Hungary	In-depth investigation of thermal behaviour of pharmaceutical amorphous solid dispersions
	Fiurasek	Petr	Canada	McGill chemistry characterization (MC2) facility
Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 3.: Club Room / Wednesday, 21 June 16:10-18:00				
Invited	Regdon, jr	Géza	Hungary	What is a pharmaceutical technologist pharmacist doing among thermoanalysts?
Oral	Dwivedi	Rishabh	India	Experimental investigations on the thermo-mechanical characterization of Jalore granitic rocks for India's HLW disposal
	Reda	Mahmoud	Austria	Thermochemical properties of tin disulfide
	Fischer	Lukas	Austria	Self-healing anodes for LI-ION batteries: enthalpy of mixing in the liquid system Li-Zn, and Li-Sn-Zn
	Khaligh	Nader Ghaffari	Malaysia	2-cycloalkylsulfanyl-[1,3,4]thiadiazole-5-thiol or 5-Cyclopentylsulfanyl-3H-[1,3,4]thiadiazole-2-thione: Synthesis and Spectroscopic characterization, and single crystal XRD of new monocycle
Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 4.: Club Room / Thursday, 22 June 10:30-12:20				
Invited	Cavalheiro	Éder TG	Brazil	Thermoanalytical studies of some antioxidants
Oral	Delgado Liriano	Jose E.	France	Adiabatic hydrogenation of alkyl levulinates to gamma valerolactone
	Liao	Sheng-Wei	Taiwan	Hazardous characteristics of abs powder: experimental analysis and safety recommendations
	Wood	Gabe	USA	Case study: calorimetry used to support scale-up of the hydrolysis of epichlorohydrin
	Fu	Kun	China	Removal of metallic radionuclides from irradiated graphite by chlorination roasting
Kinetics, Thermal hazard 1.: Club Room / Thursday, 22 June 13:30-15:40				
Invited	Budrugeac	Petru	Romania	Applicability of model free isothermal prediction procedures based on the Friedman method and three incremental isoconversional methods
Oral	Zhang	Feng	China	Experimental investigation on the temperature distribution of corrugated steel web box girder with and without encased concrete
	Cibulkova	Zuzana	Slovakia	Thermooxidative stability of lignin- and lignosulfonate-filled rubber compounds based on NBR and SBR
	Chiu	Kuan-Chun	Taiwan	Study of thermal stability of ionic liquids [PYR14][DCA] in different atmospheres
	Settar	Abdelhakim	France	Kinetic analysis using isoconversional methods and fitting model of fire retardant coated on banana biocomposite reinforced by silicon carbide
	Dubaj	Tibor	Slovakia	Assessing the performance of various incremental isoconversional methods
Kinetics, Thermal hazard 2.: Club Room / Friday, 23 June 13:30-15:00				
Invited	Simon	Peter	Slovakia	Two interpretations of isoconversional kinetic parameters
Oral	Safdari Shadloo	Mostafa	France	Modelling the regeneration process in soot filters using iterative lattice Boltzmann method
	Várhegyi	Gábor	Hungary	Can varying activation energy be determined reliably from thermoanalytical experiments?
	Kaniewski	Maciej	Poland	Thermal decomposition kinetics of ammonium nitrate - the issue that is yet to be fully resolved
Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 1.: Panoráma Room, Wednesday, 21 June 10:30-12:20				
Invited	Mahian	Omid	China	Nanoparticles and energy systems
Oral	Shelton	John	USA	Experimental study of the rheological behavior of nanofluids containing palmitic acid/silica nanocapsules synthesized by the sol gel method
	O'Mahony	Charlie	Ireland	Determination of 3-d geometry of buried defects using angled flash thermography
	Ahmed	Waqar	China	ZnO@GO/DW based binary composite nanofluid for improved energy transmission
	Sánta	Róbert	Hungary	Energy analysis of U-type deep borehole ground source heat pump system
Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 2.: Panoráma Room / Wednesday, 21 June 13:30-15:20				
Invited	Bhattacharyya	Suvanjan	India	Thermohydraulic performance of water in an inclined circular tube fitted with spring tape inserts in transition flow regime
Oral	Pietschnig	Rudolf	Germany	Optimizing working fluids for thermal energy storage systems using open sorption
	Belyayev	Yerzhan	Kazakhstan	Thermal performance analysis of a heat pump assisted regenerative solar still
	Liu	Shijie	China	Evaluation of mechanical vapor recompression system based on twisted oval tube evaporator for treatment of high salinity wastewater
	Zhu	Dongsheng	China	Research on safe vibration-free modular energy saving technology of high efficiency heat exchanger
Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 3.: Panoráma Room / Wednesday, 21 June 16:10-17:40				
Invited	Lee-Ruff	Edward	Canada	Strain and strange small ring organic molecules
Oral	Ksepko	Ewelina	Poland	Thermogravimetric analysis of oxygen carriers for the application in CLC technology
	Yousef	Samy	Lithuania	Gasification of surgical masks waste and its life cycle assessment
	Keklikcioglu	Orhan	Türkiye	Thermohydraulic performance and second law efficiency analysis of a heat exchanger tube using a combination of two heat transfer enhancement techniques
Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 4.: Deák Room / Friday, 23 June 13:30-15:00				
Invited	Ferdows	Mohammad	Bangladesh	Thermal investigation of hybrid nanoliquid convection across moving surface
Oral	Chi	Hsin Yu	Taiwan	Using a GPU-based lattice Boltzmann method to investigate the heat convection of a lithium battery pack
	Wong	Keng Yinn	Malaysia	Is thermal-guided mobile air supply a practical measure in burn isolation wards? Potential future applications
	Sogut	M. Ziya	Türkiye	Low carbon approach with the low-temperature air distribution in air conditioning applications
Nanomaterials, Materials science, Metals 1.: Deák Room / Wednesday, 21 June 10:30-12:20				
Invited	van der Merwe	Liezel	South Africa	Thermogravimetry as a research tool during the beneficiation of diamond mine residues
Oral	Flandorfer	Hans	Austria	Self-healing anodes for Li-ion batteries: Phase relations in the systems Li-Zn and Li-Sn-Zn
	Mikšík	Dávid	Czech Republic	An investigation of phase behavior in the Co-Se-Sn ternary system using experiments and thermodynamic modeling
	Contri	Boris	France	What if the protection against oxidation of certain chromia-forming alloys was not due to the chromia layer? Example of Inconel®625 oxidation in CO2
	Hajra	Raj Narayan	South Korea	Identification of a new phase transformation of C36 → C14 for NbCr2 alloy: an experimental and First Principle calculation study
Nanomaterials, Materials science, Metals 2.: Deák Room / Wednesday, 21 June 13:30-15:40				
Invited	Walter	Dirk	Germany	Small dwarfs – high toxic effects? – Nanoparticles at the workplace and in the environment
Oral	Uskaikar	Harsha	India	Thermal and spectroscopic characterization of manganese oxide prepared by different synthesis routes
	Pielichowska	Kinga	Poland	The effect of magnetic particles on the selected thermal properties of polyurethane-based biomaterials
	Jeevanandam	Jaison	Portugal	Thermogravimetry analysis of free and gelatin hydrogel formulated nanocellulose extracted from non-native Arundo donax plant
	Dippong	Thomas	Romania	The effect of mono, di and trivalent transition metals doping on the thermal behavior, structure and morphology of NiFe2O4@SiO2
	Sobiesiak	Magdalena	Poland	Research on the carbonization process of hybrid polymer microspheres using the TGA-EGA method - evaluation of the influence of sulphanilic acid on the process
Nanomaterials, Materials science, Metals 3.: Deák Room / Thursday, 22 June 10:30-12:20				
Invited	Kaptay	George	Hungary	Paradigm-shift in equilibria of nano-materials and some evidence from calorimetry
Oral	Petreanu	Irina M.	Romania	Nanocomposite polyfenyleneoxide with amino-functionalized silica: structural characterization based on thermal analysis
	Cuninková	Eva	Slovakia	Analysis of thermo-physical and mechanical properties of the 3D printing materials applicable for superconducting TORT cables
	Drienovský	Marián	Slovakia	Thermal analysis and oxidation behavior of Al-Co-Fe-Ni-Cu multiprincipal element alloys at high temperature
	Keppert	Martin	Czech Republic	Reactivity of precursors for geopolymerisation studied by isothermal calorimetry
Nanomaterials, Materials science, Metals 4.: Deák Room / Thursday, 22 June 13:30-15:40				
Invited	Mocioiu	Oana Catalina	Romania	Zinc oxide: thermal analysis, structure, applications
Oral	Vágvölgyi	Veronika	Hungary	Halloysite – Zn-Cu/Zn-Cu/Ti-Ni oxide composite systems as potential photocatalysts
	Karajz	Dániel Attila	Hungary	Combining ZnO inverse opal and ZnO nanorods using ALD and hydrothermal growth
	Meraj	Aatikah	Malaysia	Structural, morphological and thermal properties of kenaf microcrystalline cellulose/PBAT films for packaging applications
	Jawaid	Mohammad	Malaysia	Effect of kenaf fibre loading on thermal and dynamic mechanical properties of bioepoxy composites
	Pokol J.	György	Hungary	Thermal and spectroscopical analysis of platinum (II) complexes with glyoximes, schiff bases
Polymer, pyrolysis 1.: Panoráma Room / Thursday, 22 June 10:30-12:20				
Invited	Lazzara	Giuseppe	Italy	Microwax/halloysite nanotubes composites: a versatile material for conservation of cultural heritage
Oral	Moradi	Sasan	Spain	Fully recyclable vitrimers based on ternary thiol-isocyanate-epoxy dual-curing systems
	Blázquez-Blázquez	Enrique	Spain	Hybrid mesoporous silica with antioxidants as a feasible approach for improving thermal protection of recycled polyolefins
	Fischer	Olivier	Canada	Thermogravimetric analysis and kinetic modeling of the pyrolysis of different biomass types by means of model-fitting, model-free and phenomenological modeling approaches
	Vykydalová	Anna	Slovakia	Thermal properties of PHB/PCL investigated by using DSC and TGA
Polymer, pyrolysis 2.: Panoráma Room / Thursday, 22 June 13:30-15:40				
Invited	Pielichowski	Krzysztof	Poland	Thermal characteristics of polyurethane/POSS hybrid materials and nanocomposites
Oral	Vázquez	Laura S.	Spain	Evaluation by DSC of the Joule curing process of carbon epoxy composites
	Navratilova	Jana	Czech Republic	Crystallization of long-chain branched polypropylene with nucleating agents
	Vámos	Csenge	Hungary	Porous polymer by solvent treatment and controlled crystallization for high solar-reflectivity and passive radiative cooling
	Węglarska	Agata Paulina	Poland	Aging and degradation processes in polymer coatings of optical fiber cables
	Gajzlerova	Lenka	Czech Republic	Morphological evolution of long-chain branched polypropylene under various processing conditions
Polymer, pyrolysis 3.: Panoráma Room / Friday, 23 June 10:30-12:20				
Invited	Thomas	Sabu	India	Engineering at the nanoscale: a strategy for developing high performance functional materials from biopolymers
Oral	Czirok	István Sándor	Hungary	Laboratory scale production and thermal characterization of charcoals from variously tanned leathers
	Wądrzyk	Mariusz	Poland	Pyrolysis of hydrothermally pretreated carrot pomace – investigation using Py-GC-MS, Py-FT-IR, and TGA techniques
	Yiga	Vianney Andrew	Sweden	Pyrolysis of alkali modified rice husks: combustion, kinetics and thermodynamic parameters using thermogravimetric analysis
	Branislav	Stankovic	Serbia	The kinetics analyses of non-isothermal dehydration of poly(methacrylic acid) hydrogel by application of nucleation model
Polymer, pyrolysis 4.: Panoráma Room / Friday, 23 June 13:30-15:00				
Invited	Móczó	János	Hungary	Crystalline structure and reinforcement in natural fiber reinforced PP composites
	Wu	Ke	China	Pyrolysis kinetics and volatile release of hydrothermally aged asphalt
	Zhang	Hua	China	From plastics to carbon materials and methane by pyrolysis under autogenic atmosphere
	Sebestény	Zoltán	Hungary	Thermal decomposition of PVC and leather mixtures