	JTACC+V4 3rd Journal of Thermal Analysis and Calorimetry	Conference and 9th V4 (Joint Czech-Hungarian-Polish-Slovakian 20-23 June 2023 /Balatonfüred, Hungary Danubius Hotel Annabella Programme*	n) Thermoanalytical Conference / JTACC+V4 2023
14.00 16.00	Desistration / Labbu	Tuesday / 20 June	
14:00-16:00 16:00-16:40	Registration / Lobby  Deák Room  Welcome Remarks		
	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		
8:00-8:30	Registration / Lobby  Deák Room	Wednesday / 21 June	
8:30-9:10 9:10-9:30	Plenary / Michael L. Hobbs (USA): Modeling delayed thermal runaway in nitric acid- soaked cat litter mixed with radioactive waste Silver Sponsor Lecture (Unicam)		
9:30-10:00 10:00-10:30	Deák Room	Coffee Break & Poster Session 1. / Ground Floor Lobby  Coffee Break & Poster Session 2. / Ground Floor Lobby  Club Room	Panoráma Room
	Nanomaterials, Materials science, Metals 1. Invited / Liezel van der Merwe (South Africa): Thermogravimetry as a research tool during the beneficiation of diamond mine residues	Fuels, Life, Bio, Pharmaceuticals, Geo, Instrumentation 1. Invited / Mustafa Versan Kök (Türkiye): Crude oil characterization: simultaneous TGA-DTA, TGA-FTIR and TGA-MS	Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 1. 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  Dávid Mikšík (Czech Republic): An investigation of phase behavior in the Co-Se-Sn ternary	Qinzheng Teng (China): Analysis of potassium release from paper sludge under oxygen rich combustion conditions  Xiaolin Wei (China): Optical observation and combustion properties during paper sludge	John Shelton (USA): Experimental study of the rheological behavior of nanofluids containing palmitic acid/silica nanocapsules synthesized by the sol gel method  Charlie O'Mahony (Ireland): Determination of 3-d geometry of buried defects using
	system using experiments and thermodynamic modeling  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	fast heating  Yesid J. Rueda-Ordóñez (Colombia): Energy upgrading of the cocoa pod husk through torrefaction - thermal decomposition and kinetic analyses	angled flash thermography  Waqar Ahmed (China): ZnO@GO/DW based binary composite nanofluid for improved energy transmission
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	<b>Bence Babinszki (Hungary) :</b> The effect of pyrolysis conditions on yield, thermal behaviour and volatile matter composition of biocarbon products	<b>Róbert Sánta (Hungary):</b> Energy analysis of U-type deep borehole ground source heat pump system
12:20-13:30	2.412	Buffet Lunch / Tagore Room Restaurant	
13.30-14:00	Deák Room  Nanomaterials, Materials science, Metals 2.  Invited / Dirk Walter (Germany): "Small dwarfs – high toxic effects"? – Nanoparticles at	Club Room  Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 2.  Invited / Zsuzsanna Czégény (Hungary): Biocarbons produced under pressurized	Panoráma Room  Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 2.  Invited / Mohammad Ferdows (Bangladesh): Thermal investigation of hybrid nanoliquid
14:00 - 14:20	the workplace and in the environment  Harsha Uskaikar (India): Thermal and spectroscopic characterization of manganese oxide	conditions: characterisation of the volatiles  Daniel Andrés López (Germany): Improved deep neural network-driven automatic	Convection across moving surface  Orhan Keklikcioglu (Türkiye): Thermohydraulic performance and second law efficiency
14:20 - 14:40	prepared by different synthesis routes  Kinga Pielichowska (Poland): The effect of magnetic particles on the selected thermal	segmentation of skin's thermal radiation in moving posterior legs during cardiopulmonary exercise testing for time series data analysis  Jiri Kucerik (Czech Republic): Selected applications of thermal analysis in the reseach of	analysis of a heat exchanger tube using a combination of two heat transfer enhancement techniques  Rudolf Pietschnig (Germany): Optimizing working fluids for thermal energy storage
14:40-15:00	Jaison Jeevanandam (Portugal): Thermogravimetry analysis of free and gelatin hydrogel formulated nanocellulose extracted from non-native Arundo donax plant	microplastics in soil  Mercedes Pereira Rodríguez (Spain): Thermogravimetry as a tool to discriminate the susceptibility of different components to fibre release from the same fabric	systems using open sorption  Yerzhan Belyayev (Kazakhstan): Thermal performance analysis of a heat pump assisted regenerative solar still
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	Shijie Liu (China): Evaluation of mechanical vapor recompression system based on twisted oval tube evaporator for treatment of high salinity wastewater
15:20-15:40		Petr Fiurasek (Canada): McGill chemistry characterization (MC2) facility	<b>Dongsheng Zhu (China):</b> Research on safe vibration-free modular energy saving technology of high efficiency heat exchanger
15:40-16:10	Deák Room	Coffee Break & Poster Session 3. / Ground Floor Lobby  Club Room	Panoráma Room
16:10-16:40	Ceramics, Cements, Inorganics 1. Invited / Petra Sulcová (Czech Republic): 50th anniversary of the foundation of Czech	Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 3.  Invited / Géza Regdon, jr. (Hungary): What is a pharmaceutical technologist pharmacist doing among thermoanalysts?	Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 3.  Invited / Edward Lee-Ruff (Canada): Strain and strange small ring organic molecules
16:40-17:00		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
	Magdalena Szumera (Poland): Study the influence of Fe, Mo, Mn, and Zn ions on the structure and crystallisation of soil-active glasses  Alena Akusevich (Slovakia): Study of thermal behavior and sintering ability of YAG/Al2O3	Lukas Fischer (Austria): Self-healing anodes for LI-ION batteries: enthalpy of mixing in the liquid system Li-Zn, and Li-Sn-Zn  Nader Ghaffari Khaligh (Malaysia): 2-cycloalkylsulfanyl-[1,3,4]thiadiazole-5-thiol or 5-	
18:00-19:00	glasses	Cyclopentylsulfanyl-3H-[1,3,4]thiadiazole-2-thione: Synthesis and Spectroscopic characterization, and single crystal XRD of new monocycle	
	JTAC Forum	Thursday / 22 June	
8:00-8:30 8:30-9:10	Registration / Lobby  Deák Room  Plenary / Qiyuan Xie (China): Bridge the thermal analysis and fire safety engineering: new		
9:10-9:30	insights and challenges Silver Sponsor Lecture: Laurent Zoppi (Mettler Toledo)		
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			Panorama Room
10:30-11:00	Nanomaterials, Materials science, Metals 3. Invited / George Kaptay (Hungary): Paradigm-shift in equilibria of nano-materials and	Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 4. Invited / Eder TG Cavalheiro (Brazil): Investigation of Tadalafil thermal behavior	
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Invited / Oana Catalina Mocioiu (Romania): Zinc oxide: thermal analysis, structure, applications  Veronika Vágvölgyi (Hungary): Halloysite – Zn-Cu/Zn-Cu/Ti-Ni oxide composite systems as potential photocatalysts  Dániel Attila Karajz (Hungary): Combining ZnO inverse opal and ZnO nanorods using ALD and hydrothermal growth  Attikan Meraj (Malaysia): Structural, morphological and thermal properties of kenaf microcrystalline cellulose/PBAT films for packaging applications  Mohammad Jawaid (Malaysia): Effect of kenaf fibre loading on thermal and dynamic mechanical properties of bloepoxy composites  Mohammad Jawaid (Malaysia): Effect of kenaf fibre loading on thermal and dynamic mechanical properties of bloepoxy composites  Mohammad Jawaid (Malaysia): Effect of films films for packaging applications  Mohammad Jawaid (Malaysia): Effect of films films for packaging applications  Mohammad Jawaid (Malaysia): Effect of films films for packaging applications  Mohammad Jawaid (Malaysia): Effect of films fi	Invited / Eder TG Cavalheiro (Brazil): Investigation of Tadalafii thermal behavior  Jose E. 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Ground Floor Lobby  Coffee Break & Poster Session 9. Ground Floor Lobby  Coffee Break & Poster Session 19. Ground Floor Lobby  Coffee Break	Polymer, pyrolysis 1 Invited / Giuseppe Lazzara (Italy). Microwas/halloysite nanotubes composites: a versatile material for conservation of cultural heritage  Sasan Moradi (Spain): Fully recyclable vitrimers based on ternary thiol-isocyanate-epoxy dual-curing systems  Enrique Blāzquez-Blāzquez (Spain): Hybrid mesoporous silica with antioxidants as a feasible approach for improving thermal protection of recycled polyolefins  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  Anna Vykydalová (Slovakia): Thermal properties of PHB/PCL investigated by using DSC and TGA  Panoráma Room Polymer, pyrolysis 2.  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Invited / Jan Dusza (Slovakia): Development of ultra - high temperature high- entropy ceramics  Arezki Tagnit Hamou (Canada): Measurement of pozzolans reactivity with the isothermal calorimetry and other methods  Martin Palou (Slovakia): Effect of four-component binder on strength and microstructure characteristics of fiber reinforced self-compacting mortars	Invited / Eder TG Cavalheiro (Brazil): Investigation of Tadalafil thermal behavior  Jose E. 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Delgado Liriano (France): Adiabatic hydrogenation of alkyl levulinates to gamma valerolaction  Sheng-Wel Liao (Taiwan): Hazardous characteristics of abs powder; experimental analysis and safety recommendations  Sabe Wood (USA): Case study: calorimetry used to support scale-up of the hydrolysis of epichlorohydrin  Kun Fu (China): Removal of metallic radionuclides from irradiated graphite by chlorination roasting.  Group photo  Buffet Lunch / Tagore Room Restaurant  Lib Room  Kinetis, Thermal hazard 1.  Invited / Petru Budrugeac (Romania): Applicability of model free isothermal prediction procedures based on the Friedman method and three incremental isoconversional methods are compounds based on the Friedman method and three incremental isoconversional methods or corrugated steel web blow signer with and without encased concrete  Lizana Chulke (Taiwan): Study of thermal stability of lignin- and lignosulfonate-filled rubber compounds based on NBR and SBR  Kuan-Chun Chin (Taiwan): Study of thermal stability of ionic liquids (PVR14) [DCA) in different atmospheres  Abdelhakim Settar (France): Kinetic analysis using isoconversional methods and fitting model of five recident coated on banasa biocomposite reinforced by siltion carbide Tbor Dubaj (Slovakia): Assessing the performance of various incremental isoconversional methods.  Coffee Break & Poster Session 6. / Ground Floor Lubby  Transfer to banubius Hotel Annabella  Friday / 2.3 June  Coffee Break & Poster Session 7. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Coffee Break & Poster Session 8. / Ground Floor Lubby  Cof	Invited / Gluseppe Lazzara (Euli)recyclable vitrimers based on ternary thiol-isocyanate-epoxy dual-curing systems  Sasan Moradi (Spain): Fully recyclable vitrimers based on ternary thiol-isocyanate-epoxy dual-curing systems  Enrique Blázquez-Blázquez (Spain): Hybrid mesoporous silica with antioxidants as a feasible approach for improving thermal protection of recycled polyolefins  Enrique Blázquez-Blázquez (Spain): Hybrid mesoporous silica with antioxidants as a feasible approach for improving thermal protection of recycled polyolefins  Olivier Fischer (Canada): Thermogravimetric analysis and kinetic modeling of the pyrylysis of different blomass types by means of model-fitting, model-free and phenomenological modeling approaches  Anna Vykydalová (Slovakia): Thermal properties of PHB/PCL investigated by using DSC and TGA  Panoráma Room  Pana Navratilova (Czech Republic): Crystallization of long-chain branched polypropylene with nucleating agents  Csenge Vámos (Hungary): Porous polymer by solvent treatment and controlled crystallization for high solar-reflectivity and passive radiative cooling  Agata Paulima Weglarska (Poland): Aging and degradation processes in polymer coatings of optical fiber cables  Lenka Gajzlerova (Czech Republic): Morphological evolution of long-chain branched polypropylene under various processing conditions  Panoráma Room  Palymer, Byrolysis of indinative distribution of long-chain branched polypropylene under various processing conditions  Panoráma Room  Palymer, Byrolysis of indinative 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  Panoráma Room  Polymer, Pyrolysis 8.  Branislav Stankovic (Serbia): The kinetics analyses of non-isothermal dehydration of poly(methacrylic acid) hydrogel