	C+V4 3rd Journal of Thermal Analysis and Calorimetry Co	2023	ovakian) Thermoanalytical Conference / JTACC+V4
		20-23 June 2023 /Balatonfüred, Hungary Danubius Hotel Annabella Programme*	
11.00.10.00		Tuesday / 20 June	
14:00-16:00	Registration / Lobby  Deák Room  Welcome Remarks		
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		
18.00-20:00	Terrace of Deák Room  Welcome Reception	We discarded / 24 June	
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: Jaroslav Kolejka (Unicam)		
9:30-10:00 10:00-10:30	Oliver Oponisor Lecture: varoslav Rolejka (Oliicalii)	Coffee Break & Poster Session 1. / Ground Floor Lobby Coffee Break & Poster Session 2. / Ground Floor Lobby	
	Deák Room  Nanomaterials, Materials science, Metals 1.	Club Room  Fuels, Life, Bio, Pharmaceuticals, Geo, Instrumentation 1.	Panoráma Room  Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 1.
10:30-11:00	Invited / Liezel van der Merwe (South Africa): Thermogravimetry as a research tool during the beneficiation of diamond mine residues  Hans Flandorfer (Austria): Self-healing anodes for Li-ion batteries: Phase relations in the systems Li-Zn and Li-Sn-Zn	Invited / Mustafa Versan Kök (Türkiye): Crude oil characterization: simultaneous TGA-DTA, TGA-FTIR and TGA-MS  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
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	method  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	Waqar Ahmed (China): ZnO@GO/DW based binary composite nanofluid for improved energy transmission
12:00-12:20 12:20-13:30	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  Buffet Lunch / Tagore Room Restaurant	Róbert Sánta (Hungary): Energy analysis of U-type deep borehole ground source heat pump system
	Deák Room  Nanomaterials, Materials science, Metals 2.	Club Room  Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 2.	Panoráma Room  Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 2.
13.30-14:00 14:00 - 14:20	Invited / Dirk Walter (Germany): "Small dwarfs – high toxic effects"? – Nanoparticles at the workplace and in the environment  Harsha Uskaikar (India): Thermal and spectroscopic characterization of manganese oxide prepared by different synthesis routes	Invited / Zsuzsanna Czégény (Hungary): Biocarbons produced under pressurized conditions: characterisation of the volatiles  Daniel Andrés López (Germany): Improved deep neural network-driven automatic segmentation of skin's thermal radiation in moving posterior legs during	Invited / Mohammad Ferdows (Bangladesh): Thermal investigation of hybrid nanoliquid convection across moving surface  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	cardiopulmonary exercise testing for time series data analysis  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
15:20-15:40	Thomas Dippong (Romania): The effect of mono, di and trivalent transition metals doping on the thermal behavior, structure and morphology of NiFe2O4@SiO2  Magdalena Sobiesiak (Poland): Research on the carbonization process of hybrid	Edina Szabó (Hungary): In-depth investigation of thermal behaviour of pharmaceutical amorphous solid dispersions  Petr Fiurasek (Canada): McGill chemistry characterization (MC2) facility	Invited / Suvanjan Bhattacharyya (India): Thermohydraulic performance of water in an inclined circular tube fitted with spring tape inserts in transition flow regime
15:40-16:10	polymer microspheres using the TGA-EGA method - evaluation of the influence of sulphanilic acid on the process	Coffee Break & Poster Session 3. / Ground Floor Lobby	
	Deák Room  Ceramics, Cements, Inorganics 1.	Club Room  Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 3.	Panoráma Room  Nanofluid, Thermal conductivity, Heat transfer, Exergy, Energy conversion 3.
16:10-16:40 16:40-17:00	Invited / Petra Sulcová (Czech Republic): 50th anniversary of the foundation of Czech group for thermal analysis  Sarka Zuzjakova (Czech Republic): W–Zr thin-film metallic glasses: thermal	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  Ewelina Ksepko (Poland): Thermogravimetric analysis of oxygen carriers for the
17:00-17:20	behavior and evolution of properties  Justyna Sułowska (Poland): Effect of melting behavior on the structure of sulfurbearing glasses for use as a glassy fertilizers	Rishabh Dwivedi (India): Experimental investigations on the thermo-mechanical characterization of Jalore granitic rocks for India's HLW disposal  Mahmoud Reda (Austria): Thermochemical properties of tin disulfide	application in CLC technology  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	Dongsheng Zhu (China): Research on safe vibration-free modular energy saving technology of high efficiency heat exchanger
18:00-19:00	JTAC Forum	Thursday / 22 June	
8:00-8:30	Registration / Lobby  Deák Room		
9:10-9:30	Plenary / Qiyuan Xie (China): Bridge the thermal analysis and fire safety engineering: new insights and challenges  Silver Sponsor Lecture: Laurent Zoppi (Mettler Toledo)		
9:30-10:00		Coffee Break & Poster Session 4. / Ground Floor Lobby  Coffee Break & Poster Session 5. / Ground Floor Lobby	
10:30-11:00	Deák Room  Nanomaterials, Materials science, Metals 3.  Invited / George Kaptay (Hungary): Paradigm-shift in equilibria of nano-materials	Club Room  Fuels, Bio, Pharmaceuticals, Geo , Calorim, Thermochem, Instrumentation 4.  Invited / Éder TG Cavalheiro (Brazil): Thermoanalytical studies of some	Panoráma Room  Polymer, pyrolysis 1.  Invited / Giuseppe Lazzara (Italy): Microwax/halloysite nanotubes composites: a
11:00 -11:20	and some evidence from calorimetry  Irina M. Petreanu (Romania): Nanocomposite polyfenyleneoxide with amino-	Jose E. Delgado Liriano (France): Adiabatic hydrogenation of alkyl levulinates to	versatile material for conservation of cultural heritage  Sasan Moradi (Spain): Fully recyclable vitrimers based on ternary thiol-
11:20-11:40	functionalized silica: structural characterization based on thermal analysis <b>Eva Cuninková (Slovakia):</b> Analysis of thermo-physical and mechanical properties of the 3D printing materials applicable for superconducting TORT cables	gamma valerolactone  Sheng-Wei Liao (Taiwan): Hazardous characteristics of abs powder: experimental analysis and safety recommendations	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
11:40 -12:00	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
12:20 -12:20 12:20-12:30	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  Group photo	Anna Vykydalová (Slovakia): Thermal properties of PHB/PCL investigated by using DSC and TGA
12:30-13:30		Group prioto	
	Deák Room	Buffet Lunch / Tagore Room Restaurant Club Room	Palymar, pyrolycic 2
13:30-14:00	Deák Room  Nanomaterials, Materials science, Metals 4.  Invited / Oana Catalina Mocioiu (Romania): Zinc oxide: thermal analysis, structure, applications	Buffet Lunch / Tagore Room Restaurant Club Room  Kinetics, Thermal hazard 1.  Invited / Petru Budrugeac (Romania): Applicability of model free isothermal prediction procedures based on the Friedman method and three incremental	Panoráma Room  Polymer, pyrolysis 2.  Invited / Krzysztof Pielichowski (Poland): Thermal characteristics of polyurethane/POSS hybrid materials and nanocomposites
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<sup>\*</sup> The organizers reserve the right to make changes in the programme