

JTACC+V4 4th Journal of Thermal Analysis and Calorimetry Conference and 10th V4 (Joint Czech-Hungarian-Polish-Slovakian) Thermoanalytical Conference / JTACC+V4 2025				
24-27 June 2025 / Budapest, Hungary				
Danubius Hotel Helia				
Final Program*				
Tuesday / 24 June				
14:00 - 16:00	Registration / Danubius Hotel Helia Lobby			
	Helia			
16:00 - 16:30	Welcome Speech and JTACC Award Ceremony – Travel Grants & Best Reviewer Award & Scientific Excellence Award			
16:30 - 17:10	Dénes Lőrinczy (Hungary) / JTAC Scientific Excellence Award lecture: 50 years in thermal analysis with biological and medical applications			
17:10 - 17:50	Plenary Lecture 1 / Luis A. Perez-Maqueda (Spain): Thermal analysis methods in thermal energy storage applications			
17:50 -18:10	Silver Sponsor Lecture / Tadashi Arii, Rigaku Corporation (Japan): Hyphenation and visualization techniques in thermal analysis and their applications			
18:10 - 20:00	Welcome Reception / Helia Gallery			
Wednesday / 25 June				
8:00 - 8:30	Registration / Danubius Hotel Helia Lobby			
	Helia			
	Session Chair:			
8:30 - 9:10	Plenary Lecture 2 / Qiang Xu (China): Microscale Combustion Calorimetry Used in Thermal Hazards Research			
9:10 - 9:30	Silver Sponsor Lecture / Keith Racman, Mettler Toledo (Slovenia): Revolutionary DSC S+ – Sets new standard in research with Differential Scanning Calorimetry			
9:30 - 10:00	Coffee Break and Poster Session 1 / Helia Gallery			
	Helia	Orion	Mercure	Panorama
	Polymers; Pyrolysis; Fuels, biofuels I	Energetic materials	Materials science; Nanomaterials and composites; Inorganic materials; Ceramics, glasses I	Bio sciences, including food, soil, textile, wood; Life sciences; Calorimetry I
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
10:00 - 10:30	Invited Speaker / Krzysztof Pielichowski (Poland): Thermal properties of "all-bio" polymeric materials reinforced by natural (nano)fibres	Invited Speaker / Katsumi Katoh (Japan): Thermal stability and decomposition mechanism of nitrocellulose	Invited Speaker / Pawel Pasierb (Poland): Different Approaches Towards the Optimization of BaCeO3-based Composite Protonic Conductors	Invited Speaker / Vitaly Kocherbitov (Sweden): Hydration of biomolecules in the solid state: insights from isothermal and temperature scanning calorimetry
10:30 - 10:50	Paulina Parcheta-Szwindowska (Poland): Properties of cast polyurethanes synthesized from modified bio-based triisocyanates	Marcin Cegla (Poland): Determination of crucial thermo-mechanical properties of solid rocket propellants after long-time storage in terms of their safe usage	Anna Pronová (Slovakia): Al2O3/Y3Al5O12/ZrO2 glass-ceramics the influence of composition on thermal properties and sinter ability	Faezeh Khodasbandehlou (Belgium): Measuring nonequilibrium heat capacities
10:50 - 11:10	Ewa Glowinska (Poland): Relationship between structure and thermal properties of sustainable polyurethanes synthesized with the use of bio-based diisocyanates	Vaibhav Goud (India): Microcrystalline Graphite Extraction Process from low Grade Graphite Ores Using Surfactant	Melinda Majorová (Slovakia): Effect Of ZrO2 Addition On Thermal Behaviour And Structure Of Y2O3-Al2O3-ZrO2 Ternary Glasses With Eutectic Composition	Xin Hao Huang (Taiwan): Impact of electrolyte and combustible gases on the control characteristics of lithium-ion batteries before thermal runaway
11:10 - 11:30	Claire Strasser (Germany): Curing modeling of an amine-based epoxy resin system	Melih Yıldız (Türkiye): The Future of Hydrogen Fuel in Aviation: Economic Analysis of Current Applications	Sorana Elena Lazar (Romania): Vanadium-doped mesoporous bioactive glasses as potential targeted therapy for osteosarcoma	Laura Nistor (Romania): Study of phase transitions in supramolecular materials for third-order nonlinear optics
11:30 - 11:50	Emese Gyödy-Szlezák (Hungary): Thermoanalytical approach to assess riverine PET litter and its recycling potential	Malle Krunks (Estonia): Sb2S3 Thin Films By Ultrasonic Spray In Air: Formation And Application In Solar Cells	Magdalena A. Krupska-Klimczak (Poland): BaTiO3 ceramics: advances in synthesis methods and SPS sintering strategies	Mateusz Peško (Poland): Investigation of the Thermal Stability and Degradation Kinetics of Hybrid Polymer Biocomposites Reinforced with Plant-Derived Additives
11:50 - 12:10	Sophie Bistac (France): Study of semi-crystalline copolymers by differential scanning calorimetry	Jurij Avsec (Slovenia): Thermal and radiation ageing evaluation of nuclear cables using DSC	David Koziar (Poland): Resistance to ablation in composites based on titanium diborate produced through reactive sintering	Salma Daoufa (France): Thermal characterization of biobased alternatives to paraffin wax for candle formulation
12:10 - 13:10	Buffet Lunch / Episode Restaurant, Ground Floor, Danubius Hotel Helia			
	Helia	Orion	Mercure	Panorama
	Polymers; Pyrolysis; Fuels, biofuels II	Energy conversion and storage; Exergy, Experimental thermodynamics I	Materials science; Nanomaterials and composites; Inorganic materials; Ceramics, glasses II	Bio sciences, including food, soil, textile, wood; Life sciences; Calorimetry II
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
13:10 - 13:40	Invited Speaker / Kaustubha Mohanty (India): Catalytic Hydrodeoxygenation of Bio-Oil Produced from Co-Pyrolysis of Biomass and Plastic Waste	Invited Speaker / Müslüm Arıcı (Türkiye): The true role of phase change materials in thermal management and energy efficiency	Invited Speaker / Cristina M. Vladut (Romania): Thermal Analysis and Multifunctional Applications of Advanced ZnO-Based Materials Obtained By Various Chemical Methods	Mehmet Ziya Sogut (Türkiye): Developing an Energy Efficient Responsibility Model for The Energy Transition of Shipyards
13:40 - 14:00	Maurice Brogly (France): Thermal behaviors and crystallization properties of new silicone-based polymers	Elif Zeyneb Tekin (Türkiye): Comprehensive Analysis of Turbogrop Engine Performance Across Various Flight Conditions with Exhaust Gas Temperature Fluctuations Using Digital Twin Technology	Katarzyna Pasulit (Poland): Impact of SrO addition on the structure and thermal properties of the floor tile glazes with CaO/MgO changing molar ratio	Karim Fahmy (Germany): Retrieving pathway-specific substrate utilization rates from microbial heat flow curves
14:00 - 14:20	Maciej Kisiej (Poland): Green Epoxy Vitrimers Enhanced With Liquid Crystalline Phase	Aybüke Nacak (Türkiye): Brayton Cycle Design Mathematical Modeling And Digital Twin Integration	Marieta Zakaryan (Armenia): Modeling of Ultra-High-Temperature Complex Borides Synthesis Using Linear Heating: Effect of Heating Rate	Kakali Bhadra (India): Assessment of anti-cancer potential of harmaline: in vitro cytotoxicity and biocalorimetric analysis targeting nucleic acids
14:20 - 14:40	Cristina Píntón Riesgo (Spain): Crystallization behavior of poly(3-hydroxybutyrate) systems incorporating ATBC plasticizer and mesoporous silicas, neat or modified with ATBC	Ebru Bahcecioglu (Türkiye): Energy Dissipation and Thermal Effect in Cargo Parachutes	Hasmik Kirakosyan (Armenia): Magnetic property modification and reaction kinetics of manganese-doped CrAlC MAX phases	Sibel Arslan (Türkiye): Driving towards a greener future: the environmental impact of connected vehicle technologies
14:40 - 15:00	Pankaj Tiwari (India): Optimizing Thermal Recycling of Glass Fiber-Reinforced Polymer Composites	Çhan Gökce (Türkiye): Aeronautics Applications And Design Approaches Of Hybrid Electric Power Train	Nader Ghaffari Khaligh (Malaysia): Study of thermal behavior of ADEKA Klu-Lube 2-112, a commercial ZDDP, and its tribology performance in lubricant Etro 6	
15:00 - 15:30	Coffee Break and Poster Session 2 / Helia Gallery			
15:30 - 16:00	Coffee Break and Poster Session 3 / Helia Gallery			
	Helia	Orion	Mercure	Panorama
	Polymers; Pyrolysis; Fuels, biofuels III	Energy conversion and storage; Exergy, Experimental thermodynamics II	Heat transfer; Nanofluids; Thermal conductivity I	Bio sciences, including food, soil, textile, wood; Life sciences; Calorimetry III
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
16:00 - 16:20	Jonas Mattijssen (Lithuania): Comparative analysis of Diesel and WCO blends in terms of engine emissions, efficiency, and fuel consumption	Christopher C. Enweremadu (South Africa): Predicting Solar Cell Temperature on Soiled Surfaces: A Study of Dust Thermophysical Properties	Mohammad Abdulaziz Tarawneh (Jordan): Simulation Study on Enhanced Refrigeration System Performance Through The Integrated Use Of Microtube Evaporator and Expander	Invited Speaker / Faraat Ali (Czech Republic): Solid state thermoanalytical characterization of Drugs and pharmaceuticals by Thermoanalytical techniques
16:20 - 16:40	Doğuş Kılıç (Türkiye): Application of Digital Twin Technology for Comprehensive Analysis of Turbogrop Engine Performance, Combustion, and Emissions Across Varied Fuel Types	Artūras Kilikevičius (Lithuania): Detailed analysis responsibility in energy management of enterprises: a case study	Tapawa Makombore (South Africa): Design, Manufacture and Characterisation of Cryogenic Test Facility for Low-noise Amplifiers	Joanna Grzelczyk (Poland): Assessing the affinity of bioactive isolates from different in vitro digested coffee fraction extracts by binding to PPAR-γ using isothermal titration calorimetry and docking simulation
16:40 - 17:00	Esmá Ulusan (Türkiye): Hydrogen Economy And Thermal Management: Challenges, Opportunities, And Future Perspectives	Farzad Zolfaghari (Lithuania): Enhancing gasification net energy prediction using gan-based synthetic data and stacked learning	Bengisen Pekmen (Türkiye): Numerical investigation on bioconvection flow in the presence of two concentrations	Xuehong Ren (China): Flame Retardant Behaviour and Smoke/Fat Suppression of Organic-inorganic Intumescent Polyelectrolyte Complexes on Fabrics
17:00 - 17:20	Jerome Stanley Martin (India): Homogeneous Lean Methane Combustion in Direct Injection SI Engines	Alexander Sedykh (Germany): Thermal stability, thermochemical and thermophysical properties of lithium argyrodite solid electrolytes	Sardar Bilal (Saudi Arabia): Thermal Energy Optimization for Interacting Fluid with Solid Structure in Novel Configuration with Finite Element Simulations	
18:00 - 20:00	City Center Walking Tour (optional)			
20:00 - 21:30	Wine Tasting in Domus Vinorum (optional)			
Thursday / 26 June				
8:00 - 8:30	Registration / Danubius Hotel Helia Lobby			
	Helia			
	Session Chair:			
8:30 - 9:10	Plenary Lecture 3 / Klára Hernádi (Hungary): Challenges with carbon allotropes			
9:10 - 9:30	Silver Sponsor Lecture / TA Instruments			
9:30 - 10:00	Coffee Break and Poster Session 4 / Helia Gallery			
	Helia	Orion	Mercure	Panorama
	Polymers; Pyrolysis; Fuels, biofuels IV	Heat transfer; Nanofluids; Thermal conductivity II	Materials science; Nanomaterials and composites; Inorganic materials; Ceramics, glasses III	Metals, alloys, intermetallics
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
10:00 - 10:30	Invited Speaker / Zoltán Sebestyén (Hungary): Thermal conversion and characterization of tanned leather	Invited Speaker / Chi-Min Shu (Taiwan): Electrical and thermal safety characteristics of aged lithium-ion batteries	Invited Speaker / Nataša Čelan Korošin (Slovenia): Off-Line Evolved Gas Analysis with the Coupled System TGA/DSC–IT16–GC/MS: Case Studies	Invited Speaker / John Shelton (United States): Thermophysical characterization of functionalized metallic particles during phase change processes
10:30 - 10:50	Ravishankar Sathyamurthy (Saudi Arabia): Performance and Emission characteristics of Ternary Blends of Fish Oil Biodiesel in the Dual-Fuel Systems using single and split injection strategy	Ajit Kumar Parwani (India): Novel Approach to Identify the Effective Heating Region of Closed-Loop Pulsating Heat Pipe Using Four-Step Method	Suzanna Melkonyan (Armenia): High-entropy (Ti0.4Ta0.4V0.4Nb0.4Cr0.4)AlC MAX Phase Synthesized By SHS: Structural, Thermal, And Mechanical Insights	Anna Wojtachat (Poland): Dilatometric study of phase transformation kinetics in advanced 3Mn bainitic steel subjected to isothermal heat treatment
10:50 - 11:10	Sien Jie Wong (Malaysia): Computational fluid dynamics in hydrogen internal combustion engines: a review of current applications, challenges, and future directions	Merve Kayabasi (Turkey): A Numerical Investigation on Bioconvection Flow Considering Growth Rate/Term	Piotr Rylewskio (Poland): Thermal and thermomechanical properties of laser-modified and electropolished thermoplastic polymer composites with electromagnetic field shielding properties	Tomasz Matula (Poland): Application Of The DTA Method To Analyze The Crtinalization Process Of AlSi9Cu3(Fe) Alloy With Increased Iron Participation
11:10 - 11:30	Olivier Fischer (France): Thermochemical valorization of tomato plant residues: Characterization of the pyrolysis process through the coupling of TGA-based kinetic analyses and pilot-scale auger reactor tests	Huiyi Tan (Malaysia): Would Heat Sources And Human Thermal Plumes Affect Indoor Airflow And Particle Dynamics In Healthcare Facilities? A State-Of-The-Art Review	Agnieszka Gladysz-Plaska (Poland): Use of thermal analysis to characterize composites obtained on the basis of diatomite, alumina or layered double hydroxides	Jarosław Piątkowski (Poland): The Use of Temperature Analysis of DTA and DSC to Crystallization of A390 Alloy with Melt Overheating Degree
11:30 - 11:50	Aleksandra Hudek (Poland): Follow-up study on valorization of carrot pomace via pretreatment and hydrothermal liquefaction - characterization and thermal analysis of produced biocrude	Hamza Babar (United Kingdom): Biomimetic liquid-cooled heat sink for efficient thermal management applications	Djibril Rouzaud (France): CALO-IR: Development and first applications of an in-situ DSC-IR coupling	Daniel R. Gruszka (Poland): Post processing thermal treatment of Binder jetting 3D printed no-bake sand moulds.
11:50 - 12:10	Rafał Łysowski (Poland): Properties of spinel-based oxygen carriers for chemical looping combustion examined by using thermogravimetric analysis	Faezeh Mohammadi (Iran): Human Mental Search (HMS) algorithm and Adaptive Network-based Fuzzy Inference System (ANFIS) to Model the Heat Transfer in a Heat Exchanger Equipped with a new type of self-rotating insert	Ademola Michael Adegbile (Estonia): Thermal-Kinetic Study of Estonian Clays And Calcium/Sulphur-Rich Industrial By-Product Under Varied Calcination Atmospheres	
12:10 - 13:10	Buffet Lunch / Episode Restaurant, Ground Floor, Danubius Hotel Helia			
	Helia	Orion	Mercure	Panorama
	Polymers; Pyrolysis; Fuels, biofuels V	Heat transfer; Nanofluids; Thermal conductivity III	Materials science; Nanomaterials and composites; Inorganic materials; Ceramics, glasses IV	Bio sciences, including food, soil, textile, wood; Life sciences; Calorimetry IV
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
13:10 - 13:40	Invited Speaker / Matko Erceg (Croatia): Some factors affecting the results of kinetic analysis	Invited Speaker / Qingsong Wang (China): Lithium ion battery fire behavior and preventions	Invited Speaker / Thomas Dippong (Romania): Impact of various trivalent metal ions on thermal, structural, morphological and magnetic properties of zinc ferrite	Invited Speaker / János Madarász (Hungary): Compressing Experiences of Resolution Trials into Ternary Equilibrium Melting Phase Diagrams by DSC and Powder XRD
13:40 - 14:00	Yashar Aryanfar (Taiwan): Exergy Analysis of Biomass Gasification Systems: A Pathway to Enhanced Energy Recovery and Process Sustainability	Mariusz J Konieczny (Poland): Identification of Temperature Distribution During the Welding Process	István Sándor Czirók (Hungary): Pyrolysis of PVC and leather mixtures	Saleh Muhammed Raqib (Oman): State Diagram of Freeze-Dried Coriander Leaves by Measuring and Modelling Freezing Curve, Maximal-Freeze-Concentration Condition, Glass and Solids-Melting Lines
14:00 - 14:20	Hong-Jang Liaw (Taiwan): A Model to Estimate the Flash Point of Binary Mixtures of Ionic Liquid and Solvent	Adnan Qayoum (India): Lithium-ion battery thermal management system for regional temperature extremes in himalayan climates: A CFD analysis	Veronika Gävgölygi (Hungary): Modified zinc-oxide based photocatalysts on clay mineral surfaces	Nasser Al Habsi (Oman): Rumien Fermentation of Date Seed Fractions: Chemical, Structural, and Thermal Modifications for Potential Food Applications
14:20 - 14:40	Andrea Majlingova (Slovakia): Moisture-driven modulation of combustion behaviour in oak litter: a thermoanalytical study	Joseph N E Lejeune (France): Preliminary study of textile structures with regard to their photonic radiative cooling properties	Alsaheh Rabeil (United States): Integrated Thermal And Thermo-Mechanical Performance Of Steel Composite Metal Foams	Xian-Wei Cheng (China): Reactive chlorinated triazine phytate ester for flame retardant modification of silk fabric: flame retardancy and mode of action
14:40 - 15:00		Phat T Duong (Taiwan): Simulation of the PCM encapsulation effect on natural convection of a horizontally placed Li-ion battery using the lattice Boltzmann method	Hisham Khater (Egypt): Carbon dioxide emissions reduction through the development of ecological LC3 cement	Jin-Ping Guan (China): Investigation on flame retardancy and mechanism of the coated PA6 fabrics by using phosphorylated bio-derivative
15:00 - 15:30	Coffee Break and Poster Session 5 / Helia Gallery			
15:30 - 16:00	Coffee Break and Poster Session 6 / Helia Gallery			
	Helia	Orion	Mercure	Panorama
	Polymers; Pyrolysis; Fuels, biofuels VI	Heat transfer; Nanofluids; Thermal conductivity IV	Energy conversion and storage; Exergy, Experimental thermodynamics III	Cements, building materials I
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
16:00 - 16:20	Mohamed Bassyouni (Egypt): Optimization of non-recyclable medical plastics using pyrolysis for high-yield biofuel production	Quynh TN Nguyen (Taiwan): 3-D CFD Analysis of Convective Heat Transfer From a Heated Horizontal Cylinder Rotating In Air: From Laminar To Turbulent Flow	Martyna Szatkowska (Poland): Thermal properties of carbonised cork peels biomass infiltrated with sugar alcohols modified with graphene	Can Rüstü Yörük (Estonia): Thermal Activation and Pozzolanic Reactivity of Estonian Clays For Cementitious Applications
16:20 - 16:40	Bibari Boro (India): Investigation on pyrolysis of waste printed circuit board: kinetic analysis, product characterization and economic analysis	Ashmore Mawire (South Africa): Thermal performance of a new standalone solar dryer for drying apple slices	Natalia Paprota (Poland): Thermal properties of shape-stabilized thermochromic phase change materials	Renata Boris (Lithuania): Influence of Micro-silica and Superplasticizers on the Hydration and Rheological Behavior of Calcium Aluminate Cement
16:40 - 17:00	Pablo A Nieto (Colombia): Pyrolysis as a valorization strategy for OTR mining tires: Experimental study and kinetic modeling	Salman Ahmad (China): Comparative Heat Transfer Enhancement Analysis in Cu-H2O, Al2O3-H2O and Cu-Al2O3-H2O: Computational Approach	Bojan Z Jankovic (Serbia): Study of oxy-combustion of plane tree (Platanus orientalis) seeds in O2/ARGON atmosphere including complex reactions	Paul S Thomas (Australia): TG And XRD Characterisation of the Phases Developed in Heat Cured Pastes Susceptible To Delayed Ettringite Formation (DEF)
17:00 - 17:20		Jaya Joshi (India): Numerical Study of Stefan problem with two moving domains and variable thermal properties		Amari Mostafa (Egypt): Production of Low Carbon; dioxide Cement Clinker by using industrial wastes
19:00 - 23:00	Dinner Cruise / River Dupa (optional)			
Friday / 27 June				
	Helia			
	Session Chair:			
8:30 - 9:10	JTAC Young Scientist Award Lecture / Leire Sangroniz (Spain): Melt memory effect in semicrystalline polymers			
9:10 - 9:30	Michael Gerlach (Germany): Modular Peltier-based Isothermal Battery-Calorimeter			
9:30 - 10:00	Coffee Break and Poster Session 7/ Helia Gallery			
	Helia	Orion	Mercure	Panorama
	Materials science; Nanomaterials and composites; Inorganic materials; Ceramics, glasses V	Energy conversion and storage; Exergy, Experimental thermodynamics IV	Heat transfer; Nanofluids; Thermal conductivity V	Kinetics and catalysis; Thermal hazards, lifetime prediction
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
10:00 - 10:30	Invited Speaker / Balázs Zsírka (Hungary): Application of thermal analysis in the synthesis and characterization of clay mineral-based nanostructures and photocatalysts	Invited Speaker / Ágoston Restás (Hungary): Fire intensity driven suppressant optimization in case of forest fire supported by drone application	Invited Speaker / Juan Carlos Moreno-Pirajan (Colombia): Immersion calorimetry in adsorption science: bridging thermodynamics and surface	Invited Speaker / Peter Šimon (Slovakia): Various degrees of conversion in geopolymer applications
10:30 - 10:50	Mohammedo Bouhmandi (Poland): The Growth, Optical, and Thermal Characterization of CoBeSeTe Quaternary mixed Crystals using Photothermal methods	Antonin Robinet (France): Experimental investigation of pool fire behavior and unburnt gas ignition hazards in a reduced-scale model chamber of Chambord castle	Ewelina Ziłkowska (Poland): Experimental-numerical determination of correlations for Nusselt numbers on the hot and cold medium sides of a tube-in-tube coil heat exchanger	Jia Fang (China): Oxidation of soot by cerium dioxide synthesized under different hydrothermal conditions
10:50 - 11:10	Sarka Zujakova (Czech Republic): High-Temperature Behaviour Of Ceramic High-Entropy Films From Cr–Hf–Mo–Ta–W–N System	Ahmed Al Mers (Morocco): Thermocline Energy Storage for Cooling the Thermal Performance of a Hybrid Compression-Absorption Cooled machine Powered by a Linear Fresnel CSP system	Quan Zheng (China): Evaluation on comprehensive performance of drying system of spent resin integrated with a heat pump cycle by waste heat recovery	Bahar Pinar Diken (Türkiye): Thermal Behavior And Kinetics Of Crude Oil Enriched With Copper Nanoparticles: A Thermogravimetric Approach
11:10 - 11:30	Martin Kappert (Czech Republic): Influence of temperature on synthesis of acid geopolymer	Mahmoud Reda (Austria): Thermal Decomposition of Ordered and Disordered LNM0	Essam Mahmoud (Saudi Arabia): Enhancement of the performance of a spherical distiller using hybrid nanofluids	Tibor Dubaj (Slovakia): Kinetic analysis of burnout of mineral-rich coal tailings for geopolymer applications
11:30 - 11:50	Angelika Kmita (Poland): Inorganic binders as a way for sustainability iron casting product	Yousra Filal Baba (Morocco): Thermal Energy Storage Systems: PSO-Driven approach for improved performances and operational reliability	Abdallah S Berrouk (United Arab Emirates): Numerical Investigation of Chemical Reactive MHD Fluid Dynamics Over a Porous Surface With Cattaneo–Christov Heat Flux	Shuo-Qian Huang (Taiwan): Study on thermal stability of Ionic liquid [BMIM][TfO] in different atmospheres
11:50 - 12:10	Maciej Kaniewski (Poland): Revisiting Assumptions: Thermal Behavior of Ammonium Nitrate Systems with Additives Commonly Considered as Stabilizers	Ozan Öztürk (Türkiye): Management Of Combustion Instabilities: Analysis Of Passive And Active Control Methods	Alina Adriana Minea (Romania): PEG based nanocolloids for heat transfer applications: a study on heat transfer enhancement in laminar flow	Yun-Ting Wu (Taiwan): The thermal stability of [PYR14][NTf2] under different atmosphere
12:10 - 13:10	Buffet Lunch / Episode Restaurant, Ground Floor, Danubius Hotel Helia			
	Helia	Orion	Mercure	Panorama
	Theory and instrumentation	Energy conversion and storage; Exergy, Experimental thermodynamics V	Heat transfer; Nanofluids; Thermal conductivity VI	Cements, building materials II
	Session Chair:	Session Chair:	Session Chair:	Session Chair:
13:10 - 13:30	Manuel Carmona Franco (Spain): Influence and Accuracy of Micro vs Macro Scale Thermal Characterization in Wall-Board PCM Gypsum Composites	Ozan Öztürk (Türkiye): Management Of Combustion Instabilities: Analysis Of Passive And Active Control Methods	Dong-Wook Oh (South Korea): Thermal modelling of a suspended microheater surrounded by air and hydrogen	Chung-Hao Wu (Taiwan): Research on the compressive strength of MICP-modified aggregate concrete mixed cured with salt water
13:30 - 13:50	Petr Flurašek (Canada): Quebec Centre For Advanced Materials (QCAM) – The Power Of Hyphenation	Kiran Naik Bukke (India): Enhancing Atmospheric Sustainability With Vapour Ad/Ab-Sorption Systems	Zalán István Váradý (Hungary): Preparation and Investigation of Hybrid and Composite SiO2-ZnO Nanofluids	Martin Palou (Slovakia): Insights into the hydration reactions of low-carbon cements
13:50 - 14:10	Hitham M. N. Tilan (Jordan): Design An Embedded Vest System for Human being Real time Vibrations Measurement	Ali Fathi Yusefi (Türkiye): TEWI analysis and environmental impacts evaluation of the refrigerants used in the refrigerated display cabinets	Marcell Bohus (Hungary): Stability and thermal conductivity of carbon nanotube - oxide type hybrid nanofluids	Izabel Polniasek (Poland): Characterization of Carbonated Wollastonite-Based Clinker by thermal analysis and isothermal calorimetry
14:10 - 14:30	Somajra Rajasomashekar (India): Real-Time Monitoring and Efficient Operational Strategies for Electric Vehicles using IoT	Orhan Mert Duraner (Türkiye): Theoretical and Experimental Study on the Use of Alternative A2L Safety Class Refrigerants With Low GWP in Vertical Type Display Cabinets	Ali Abouais (Poland): Correlation Between Thermal and Optical Properties in ZnMnSe Mixed Crystals Grown by The Bridgman Technique	Michał Wiecekorek (Poland): Influence of granulated blast furnace slag and silica fly ash on the hydration kinetics of multi-component cements
14:30 - 14:50		Muhsin Kılıç (Türkiye): Comparative performance assessments of CO2 refrigeration cycles under subcritical and transcritical operating conditions	Muhammed Farooq (Saudi Arabia): Optimizing Thermal Performance of Heat Sinks Using ZnO Integrated Phase Change Materials for Sustainable Energy Solutions	
15:00 - 15:30	Coffee Break and Poster Session 8 / Helia Gallery			
15:30 - 16:00	Coffee Break and Poster Session 9 / Helia Gallery			
	Helia	Orion	Mercure	Panorama
	Thermochemistry	Energy conversion and storage; Exergy, Experimental thermodynamics VI	Heat transfer; Nanofluids; Thermal conductivity VII	
	Session Chair:	Session Chair:	Session Chair:	
16:00 - 16:20	Vera L.S. Freitas (Portugal): Thermodynamic Characterization of 2-Picolinamide Polymorphs	Syarifah Abd Rahim (Malaysia): Recovery of Succinic Acid through Crystallization Process: Solubility and Thermodynamics	Raj Nandkeolyar (India): Dissipative and radiative heat transfer in the hydromagnetic nanofluid flow over an inclined rotating disk within a non-Darcy porous medium	
16:20 - 16:40	Jakob Smith (Austria): Mixed cation sulfates as thermochemical energy storage materials	Eswaramoorthy Muthusamy (India): Thermodynamic Analysis of Solar Photovoltaic Thermoelectric Generator With Composite Phase Change Material	Suvanjan Bhattacharyya (India): Binary surfactants driven pool boiling enhancement for microgravity applications	
16:40 - 17:00	Mohammad Mustafa Ghafurian (Denmark): Utilization of Powdered Hydrated Salt in Vacuum Heat Pipes for Enhanced Solar Energy Harvesting	P. Premkumar (India): Effective Energy Conversion of Household Waste Food and its Packing Plastic Covers into Valuable Hydrocarbon Fuels	Mrinal K. Jagirdar (India): Experimental investigation on a novel cycle-operated desiccant dehumidifier driven by ultra-low grade heat sources	
17:00 - 17:20	Peter Weinberger (Austria): TCMs for versatile thermal energy storage – from salt hydrates to oxides			
17:20 - 17:40	Closing Ceremony			