

# 15<sup>th</sup> Conference on Calorimetry and Thermal Analysis

8-12<sup>th</sup> SEPTEMBER 2024

## CONFERENCE SCHEDULE



FACULTY OF  
CHEMISTRY



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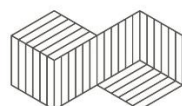
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## SUNDAY 8 SEPTEMBER

18:00 – 20:00 REGISTRATION

20:00 WELCOME DINNER

## MONDAY 9 SEPTEMBER

8:00 – 9:00 Registration

9:00 – 9:30 **OPENING CEREMONY**

prof. Janusz Datta (*Conference Chairman*)

prof. Krzysztof Pielichowski (*President of PTKAT*)

**PRESENTATION OF MEDALS AND AWARDS**

9:30 – 10:20 **Barbara Pacewska** (PLENARY LECTURE, PL1)

*„Usefulness of calorimetry and thermal analysis in research of aluminate and aluminosilicate materials”*

10:20 – 10:50 Paulina Parcheta-Szwindowska (PTKAT Laureate Lecture, invited)

*„From monomers to sustainable polyurethane materials - comprehensive thermal analysis”*

10:50 – 11:10 COFFEE BREAK

### **SESSION I – POLYMERS**

**Session chairs:** Jerzy Błazejowski, Imre Miklós Szilágyi

11:10 – 11:30 Kinga Pielichowska

*„The effect of boron nitride on the thermal properties of phase change materials for thermal energy storage”*

11:30 – 11:50 Małgorzata Maciejewska

*„Insight into the preparation, characterization and modification porous copolymers poly(GMA-co-EGDMA)”*

11:50 – 12:10 Kamila Sałasińska

*„Bio-sourced flame retardant systems for polymers: The influence of chemical modification of plant component on thermal stability and flammability of PA11”*

12:10 – 12:30 Zuzana Cibulková

*„Thermooxidative stability of SBR/Calcium lignosulfonate studied by non-isothermal DSC”*

12:30 – 14:00 LUNCH

## SESSION II – ORGANIC AND INORGANIC CHEMISTRY

Session chairs: Renata Łyszczek, Peter Šimon

- 14:00 – 14:50** Imre Miklós Szilágyi (PLENARY LECTURE, PL2)  
*„Thermal behavior and application of carbon nanostructures”*
- 14:50 – 15:10** Martin Keppert  
*„Thermal curing of phosphate-based geopolymers”*
- 15:10 – 15:30** Hubert Ronduda  
*„Understanding the role of cesium additive in cobalt catalysts for ammonia synthesis”*
- 15:30 – 15:50** Agnieszka Myka  
*„Evaluation of the influence of purified polyhalite additive on the thermal decomposition of ammonium nitrate”*
- 15:50 – 16:10** Kamil Kwiatkowski  
*„Reinvestigation of phase equilibria up to the solidus line and properties of phases from the  $V_2O_5$ – $Sm_2O_3$  system”*

**16:10 – 16:30** COFFEE BREAK

## SPONSORS PRESENTATIONS

Session chair: Krzysztof Formela

- 16:30 – 16:45** NETZSCH, Krzysztof Hodor
- 16:45 – 17:00** Shim-pol, Jan Podgórski
- 17:00 – 17:10** Bruker, Wojciech Kaźmierski
- 17:10 – 17:20** Haas, Róża Tomikowska
- 17:20 – 17:30** Spectro-Lab, Anna Kunert

## POSTER SESSION I

**17:30 – 19:00** Poster session chair: Józef Haponiuk

**19:00 – 20:00** TIME OFF

**20:00 – 23:00** SOCIAL EVENT – CONFERENCE GRILL

## **TUESDAY 10 SEPTEMBER**

**8:00 – 9:00** Conference office

### **SESSION III – KINETICS, THERMODYNAMICS AND MANUFACTURING**

**Session chairs:** Petra Šulcová, Krzysztof Pielichowski

**9:00 – 9:45** **Ignazio Blanco** (PLENARY LECTURE, PL3)

*„The Role of Thermal Methods in Additive Manufacturing”*

**9:50 – 10:10** Jerzy Błażejowski

*„Peculiarities of solid state reaction kinetics”*

**10:10 – 10:30** Adam Grajcar

*„Thermodynamic calculations of critical temperatures and phase transformation kinetics in medium-Mn steels alloyed with Mo and Cu additions”*

**10:30 – 10:50** Anna Wojtacha

*„Effect of hot deformation on phase transformation kinetics in medium manganese steel with Ti and V microadditions”*

**10:50 – 11:10** Michał Gocki

*„Selection of Thermal Debinding Conditions Based on Thermogravimetric Analysis for Filaments with H13 Steel”*

**11:10 – 11:30** **COFFEE BREAK**

### **SESSION IV – KINETICS AND THERMOOXIDATIVE STABILITY**

**Session chairs:** Ignazio Blanco, Janusz Datta

**11:30 – 11:50** **Peter Šimon** (INVITED SPEAKER)

*„Evaluation of thermal and thermooxidative stability of materials”*

**11:50 – 12:10** Jana Shánělová

*„Evaluation of crystal growth rate and nucleation density from DSC data”*

**12:10 – 12:30** Łukasz Kolek

*„Phase polymorphism and melt and cold crystallization processes in a liquid-crystalline substance with para-, ferro- and antiferroelectric phases”*

**12:30 – 12:50** Piotr Prasuda

*„Investigation on thermal decomposition of insensitive explosive compositions based on TEX”*

**13:00 – 14:30** **LUNCH**

**14:30** **SPONSORS WORKSHOPS** (for registered participants)

**20:00** **DINNER**



## WEDNESDAY 11 SEPTEMBER

8:00 – 9:00 Conference office

### SESSION V – ENGINEERING MATERIALS

Session chairs: Dénes Lőrinczy, Przemysław Rybiński

9:00 – 9:50 Józef Haponiuk (PLENARY LECTURE, PL4)

*„Leveraging Thermal Analysis for Advancing Polymer Industry Goals in the Circular Economy”*

09:50 – 10:10 Martin T. Palou

*„Simultaneous effect of material composition and temperature on rheology and the hydration of Dyckerhoff Oil-Well CEMENT under hydrothermal conditions”*

10:10 – 10:30 Róża Tomikowska

*„Thermal Conductivity of gypsum with the addition of coffee grounds”*

10:30 – 10:50 Žaneta Dohnalová

*„Synthesis of brown perovskite pigments by thermal decomposition of hydroxystannates”*

10:50 – 11:10 Kristína Compeľová

*„Comparison of geothermal and NaCl solution impact on reactions and processes occurring in blended cement pastes”*

11:10 – 11:30 COFFEE BREAK

### POSTER SESSION II

11:30 – 13:00

Poster session chair: Józef Haponiuk

13:00 – 14:30 LUNCH

### SESSION VI – MATERIALS FOR SPECIAL APPLICATION

Session chairs: Kinga Pielichowska, Mateusz Piz

14:30 – 14:50 Aleksandra J. Pelczarska

*„Facile, low temperature synthesis of nanosized calcium hydroxyapatite from egg shells”*

14:50 – 15:10 Agata Sommer

*„Properties of bacterial cellulose synthesized under shaking culture conditions”*

15:10 – 15:30 Dana Koňáková

*„Natural fibres as retardant of pozzolanic reaction in lime-based plasters”*

15:30 – 15:50 Patrycja Schab

*„Thermal analysis of metal complexes with indomethacin”*

15:50 – 16:10 COFFEE BREAK

## SESSION VII – ENERGY, FUELS, CONDUCTING POLYMERS

**Session chairs:** Marek Wesolowski, Magdalena Szumera

- 16:10 - 16:30** Karolina Głoz  
*„Thermally activated charge carrier transformations and decay in conducting polymers: case study of regiorandom and regioregular poly(3-hexylthiophene)”*
- 16:30 – 16:50** Kinga Suchorab  
*„Thermal properties of sintered doped zirconia for nuclear applications”*
- 16:50 – 17:10** Kinga Janowska  
*„Influence of the solid rocket propellant structure on its properties”*
- 17:10 – 17:30** Magdalena Brzeziak  
*„Thermal stability and safety parameters of NTO-based low-sensitive explosive compositions – comparison between melt-cast and PBX-type explosives”*
- 17:30 – 20:00** **TIME OFF**

**20:00** **SOCIAL EVENT – CONFERENCE DINNER**  
**(Karczma Bialy Potok, Droga do Bialego 7 Street, Zakopane)**

## THURSDAY 12 SEPTEMBER

9:00 – 10:00 Conference office

### SESSION VIII – POLYMERS

**Session chairs:** Aleksandra J. Pelczarska, Paulina Parcheta-Szwindowska

- 10:00 – 10:20** Małgorzata Gil-Kowalczyk  
*„Easy to modify epoxy resins used as materials for dedicated optical fibers”*
- 10:20 – 10:40** Andrzej Puszka  
*„Study of the effect of accelerated aging on selected properties of polyurethane materials”*
- 10:40 – 11:00** Mateusz Peńsko  
*„Hybrid polymer biocomposites modified with plant-based raw materials”*
- 11:00 – 11:20** Arkadiusz Głowacki  
*„Fire-retardant properties of polyurethane foams modified with phosphoorganic and phosphinates compounds”*

**11:20 – 11:40 COFFEE BREAK**

**11:40 – 12:00 CLOSING CEREMONY**

**12:00 – 13:30 LUNCH**

## POSTER SESSION I, MONDAY 09.09 (17:30-19:00)

Nr	Authors, title
P1.1	Arnau Martínez, <b>Pura Alfonso</b> , Maite Garcia-Valles, „ <i>Bauxites from Catalonia: comparison between hot stage microscopy and dilatometry</i> ”
P1.2	Annija Elizabete Goldmane, <b>Līga Avotina</b> , Kristaps Sarsuns, Jelena Kirilova, Rihards Kluga, Arturs Zarins, „ <i>Thermal stability estimation of fluorescent benzanthrone-based dyes</i> ”
P1.3	<b>Mateusz Barczewski</b> , Sandra Paszkiewicz, Javier Cañavate, Joanna Aniśko, Aleksander Hejna, Adam Piasecki, Beata Dudziec, „ <i>The influence of octa phenyl-substituted silsesquioxane (phSQ) on thermal properties and crystallization of polylactide (PLA)</i> ”
P1.4	<b>Anna Błońska-Tabero</b> , Monika Bosacka, Elzbieta Filipek, Kamila Kaminska, „ <i>System CoO–P<sub>2</sub>O<sub>5</sub>–Cr<sub>2</sub>O<sub>3</sub>: new compound and phase relations in subsolidus area</i> ”
P1.5	<b>Olena Bobrova</b> , Karel Pomeisl, Alois Bilavcik, Milos Faltus, Stanislav Narozhny, Jiri Zamecnik, „ <i>Crystallization processes in liposome suspensions with cryoprotectants and nanoparticles</i> ”
P1.6	<b>Marcin Brykała</b> , Kinga Suchorab, Marcin Kowal, Marcin Chmielewski, „ <i>Thermal properties of different types of nickel based alloys used in nuclear applications</i> ”
P1.7	<b>Zofia Bugiel</b> , Oliwia Barra, Katarzyna Drewczyńska, Zofia Grudzień-Murawska, Zofia Jeleniewska, Mateusz Kalbarczyk, Klaudia Prusik, Wiktoria Siatkowska, Michalina Wanat, Daniel Jaworski, Aleksandra Mielewczyk-Gryń, „ <i>Thermal analysis as a tool for archaeometry studies</i> ”
P1.8	<b>Xavier Colom</b> , Laia Farrés, Xavier Bosch, Krzysztof Formela, <b>Javier Cañavate</b> , „ <i>Thermal characterization of green advanced rubber compounds. A great improvement in the sustainability path</i> ”
P1.9	<b>Klaudia Duch</b> , Michał Krzysztofik, Ewa Sadowska-Krępa, „ <i>Comparison of the impact of training in normal conditions and normobaric hypoxia on thermal profiles of changes in the heat capacity of human blood serum</i> ”
P1.10	Agata Rodak, Julia Zienkiewicz, Józef Haponiuk, <b>Krzysztof Formela</b> , „ <i>Thermal analysis in development of waste tire rubber recycling technologies</i> ”
P1.11	<b>Marcin Gajek</b> , Alicja Rapacz-Kmita, Ewa Stodolak-Zych, Magdalena Dudek, Maria Biegun-Zurowska, Magdalena Ziąbka, „ <i>Thermal analysis methods in terms of identifying the causes of production defects in ceramic products</i> ”
P1.12	<b>Maite Garcia-Valles</b> , Arnau Martínez, Pura Alfonso, Hernan Anticoi, Susana Valls, Cristina Fontanet, „ <i>Construction and demolition wastes as supplementary cementitious materials: ceramic and concrete</i> ”
P1.13	Robert Kusiorowski, <b>Anna Gerle</b> , Magdalena Kujawa, „ <i>Kinetics studies of the chrysotile dehydroxylation reaction</i> ”
P1.14	<b>Justyna Gołabek</b> , Ewa Głowińska, Krzysztof Formela, Paulina Kosmela, „ <i>Reinforced photopolymer resins as innovative materials for 3D printing by SLA technique of molds used in pressure presses</i> ”
P1.15	<b>Ola Grabowska</b> , Sergey A. Samsonov, Małgorzata M. Kogut-Günthel, Krzysztof Żamojć, Dariusz Wyrzykowski, „ <i>Elucidation of binding mechanisms of bovine serum albumin and 1-alkylsulfonates with different hydrophobic chain lengths</i> ”
P1.16	<b>Marcin Groszek</b> , Renata Łyszczek, Agnieszka Ostasz, „ <i>Thermal investigations of transition metal complexes with 4,4'-stilbenedicarboxylic acid</i> ”
P1.17	<b>Julia Habaj</b> , Joanna Smorawska, Ewa Głowińska, „ <i>Thermal and thermomechanical properties of sustainable aliphatic biopolyurethanes differ in hard segments composition</i> ”
P1.18	<b>Edyta Hebda</b> , Jan Ozimek, Krzysztof Pieliowski, „ <i>Synthesis of bis(cyclic carbonates) from epoxy resin under microwave irradiation: the structural analysis and evaluation of thermal properties</i> ”

P1.19	<b>Sebastian Jurczyk</b> , Błażej Chmielnicki, Sara Sarraj, Monika Chomiak, Małgorzata Szymiczek, „ <i>Studies on the thermal properties of polyolefin matrix composites with selected fillers of natural origin</i> ”
P1.20	<b>Krzysztof Kaczewiak</b> , Piotr Głąb, Magdalena Maciejewska, „ <i>Thermal analysis applied for studying the thermal behavior and interactions of the components of elastomer curing systems</i> ”
P1.21	Tatiana Klempová, Zuzana Cibulková, <b>Peter Šimon</b> , „ <i>Thermooxidative Stability of Bioproducts Obtained by Solid-State Fermentation studied by non-isothermal DSC</i> ”
P1.22	<b>Magda Kosmal</b> , Anna A. Kuśnierz, Joanna Rybicka-Łada, „ <i>Impact of waste raw material in the form of cement dust on the thermal characteristics of the glass</i> ”
P1.23	<b>Aleksandra Kozłowska</b> , Adam Skowronek, „ <i>Dilatometric study on phase transformation kinetics in advanced medium-Mn martensitic-austenitic steel</i> ”
P1.24	<b>Mariusz Król</b> , Anna Woźniak, Katarzyna Cesarz-Andraczke, Przemysław Snopiński, Saeed Farahany, „ <i>Thermal characterization of newly developed bioresorbable magnesium-based alloys for implant applications</i> ”
P1.25	<b>Magdalena Kujawa</b> , Robert Kusiorowski, Anna Gerle, „ <i>Investigation of the thermal decomposition of chrysotile asbestos and asbestos-cement material under reduced pressure</i> ”
P1.26	<b>Robert Kusiorowski</b> , Anna Gerle, Magdalena Kujawa, Valentin Antonovič, Renata Boris, „ <i>Thermal treatment of end-of-life cement-asbestos wastes from Central and Eastern Europe countries</i> ”
P1.27	<b>Eva Kuzielová</b> , Kristína Compeľová, Lenka Buňová, „ <i>Influence of pozzolanic reactions on resistance of cement pastes against chloride ingress and binding</i> ”
P1.28	Elżbieta Filipek, <b>Kamil Kwiatkowski</b> , Mateusz Piz, „ <i>New <math>Y_{5-x}Sm_xVO_{10}</math> solid solution – synthesis and its physicochemical properties</i> ”
P1.29	Katalin Türmer, Péter Gaszler, Dávid Szatmári, <b>Dénes Lőrinczy</b> , „ <i>Morphological and functional deformation of human erythrocytes in blood samples from patients with diabetes mellitus</i> ”
P1.30	Dávid Szatmári, <b>Dénes Lőrinczy</b> , „ <i>The adverse effect of ciprofloxacin treatment on the thermal stability of actin</i> ”
P1.31	<b>Renata Łyszczek</b> , Halina Głuchowska, Dmytro Vlasyuk, Marcin Groszek, Agnieszka Ostasz, Justyna Sienkiewicz-Gromiuk, „ <i>Structural and thermal characterization of novel Co(II) and Mn(II) coordination polymers with quinoline-2,4-dicarboxylate ligand</i> ”
P1.32	<b>Magdalena Maciejewska</b> , Marta Grochowicz, „ <i>Polymeric microspheres grafted with polyGMA chains containing thiol groups – synthesis and thermal characterization</i> ”
P1.33	<b>Asya Manoylova</b> , Ekaterina Serafimova, Vilma Petkova, „ <i>The effects of sulphur-acid treatment on the thermal properties of biomass and chicken litter mixtures</i> ”
P1.34	<b>Anna Marzec</b> , Magdalena Śliwka-Kaszyńska, Anna Drażkowska „ <i>Comprehensive analytical methods for examining the burial garments of Polish King Sigismund III Vasa and his wife Constance Habsburg</i> ”
P1.35	Anna Krzak, <b>Agnieszka J. Nowak</b> , Jiri Frolec, Tomas Králík, Dariusz Boroński, Marcin Hejłak, Emilia Choińska, Jerzy Antonowicz, Grzegorz Matula, „ <i>Comprehensive characterization of newly developed composite materials applied in cryogenic conditions</i> ”
P1.36	<b>Agnieszka J. Nowak</b> , Tomasz Bury, Błażej Tomiczek, Tomasz Jaruga, Paweł Palutkiewicz, „ <i>The moulder heat transfer modelling - determination of the impact of the material and geometry of the injection mould core on the cooling rate and deformation</i> ”
P1.37	<b>Joanna Paciorek-Sadowska</b> , Marcin Borowicz, Marek Isbrandt, Małgorzata Łazarska, Aleksandra Piotrowska, „ <i>Application of the glycerolysis product of polylactide to obtain thermal insulating polyurethane materials with increased fire safety</i> ”
P1.38	<b>Joanna Paciorek-Sadowska</b> , Marcin Borowicz, Marek Isbrandt, „ <i>Flammability of rigid polyurethane foams modified with bio-polyol based on white mustard oil - cone calorimeter tests</i> ”
P1.39	<b>Alicja Rapacz-Kmita</b> , Marcin Gajek, Ewa Stodolak-Zych, Magdalena Dudek, „ <i>The influence of parameters for obtaining halloysite gentamicin carriers on the binding and</i>

	<i>release mechanism of the active substance and the thermal stability of the halloysite-gentamicin conjugate</i>
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## POSTER SESSION II, WEDNESDAY 11.09 (11:30-13:00)

Nr	Authors, title
P2.1	<b>Justyna Gołabek</b> , Michał Strankowski, „ <i>Self-healing supramolecular polyurethane based on multiple hydrogen bonds</i> ”
P2.2	<b>Aleksandra Ławniczak</b> , Łukasz Piszczyk, „ <i>Fatty acid interactions and their effects on polyurethane foam</i> ”
P2.3	<b>Karolina Młynarczyk</b> , Beata Podkościelna, Andrzej Puszka, „ <i>Study of thermal properties of composites based on (met)acrylates</i> ”
P2.4	<b>Agnieszka Ostasz</b> , Renata Łyszczek, Halina Głuchowska, Małgorzata Sztanke, Krzysztof Sztanke, „ <i>TG-DSC and TG-FTIR Studies of Annelated Triazinones—Potential Analgesic and Anticancer Agents</i> ”
P2.5	<b>Agnieszka Ostasz</b> , Halina Głuchowska, Karolina Bielecka, Bogdan Tarasiuk, „ <i>Synthesis and thermal investigation of copper (II) 1,4-xylylenebis(sulphonylacetate)</i> ”
P2.6	Boris Pribula, Iwona Wilińska, <b>Martin T. Palou</b> , Tibor Dubaj, Taher Tawfik, Marián Matejdes, Matúš Žemlička, Jana Čepčianska, „ <i>Novel research on the potential use of coal tailings for geopolymers</i> ”
P2.7	Ewa Szczepanik, Edyta Molik, <b>Kinga Pielichowska</b> , „ <i>Thermal analysis of the hydrogel-based sustainable controlled-release fertilisers</i> ”
P2.8	<b>Bożena Pilarek</b> , Jan Kapała, Leszek Rycerz, „ <i>Phase equilibria of the TbCl<sub>3</sub>–LnCl<sub>3</sub> system: A comparative thermodynamic study</i> ”
P2.9	<b>Mateusz Piz</b> , „ <i>Unexpected differences in the properties of orthovanadates(V) of rare earth metals obtained by different synthesis methods</i> ”
P2.10	<b>Beata Podkościelna</b> , Bogdan Tarasiuk, Karolina Młynarczyk, Andrzej Puszka, Przemysław Rybiński, Katarzyna Dawidek, Aneta Gryzińska, „ <i>New methacrylate-derived materials with fire-resistant additives - from synthesis to application</i> ”
P2.11	<b>Vojtěch Pommer</b> , Dana Koňáková, Kateřina Sellnerová, Jaroslava Zatloukalová, Petr Konvalinka, Martin Keppert, Eva Vejmelková, „ <i>Thermally activated brick soils used as SCM in powder concrete</i> ”
P2.12	<b>Julia Popis</b> , Oliwia Starczewska, Małgorzata Karolus, Sabina Lesz, „ <i>Properties of Mg<sub>62</sub>Zn<sub>30</sub>Ca<sub>4</sub>Au<sub>1</sub>Er<sub>3</sub> alloy prepared by mechanical alloying</i> ”
P2.13	Sabina Lesz, Bartłomiej Hrapkowicz, Małgorzata Karolus, Tymon Warski, Klaudiusz Gołombek, <b>Julia Popis</b> , „ <i>Calorimetric analysis of Mg<sub>80</sub>Zn<sub>15</sub>Ca<sub>4</sub>Pr<sub>1</sub> alloy</i> ”
P2.14	<b>Klaudia Prusik</b> , Maja Daroszevska, Marta Prześniak-Welenc, „ <i>Controlled nano/microstructure in sol-gel synthesized potassium vanadate: the role of thermal analysis</i> ”
P2.15	<b>Andrzej Puszka</b> , Janusz W. Sikora, „ <i>New siloxane-modified polyurethane materials - synthesis and characterization</i> ”
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