PROGRAM

Editors
Stefano Vecchio Ciprioti
Andrei Rotaru
Vera LS Freitas
Ignazio Blanco
Marius Criveanu

5th Central and Eastern European Conference on Thermal Analysis and Calorimetry (CEEC-TAC5).
14th Mediterranean Conference on Calorimetry and Thermal Analysis (Medicta2019).
27-30 August 2019
Roma, Italy
The 5th Central and Eastern European Conference on Thermal Analysis and Calorimetry
&
The 14th Mediterranean Conference on Calorimetry and Thermal Analysis

CEEC-TAC5 & Medicta2019

27-30 August 2019 – Roma, Italy

is organized by the:

Central and Eastern European Committee for Thermal Analysis and Calorimetry (CEEC-TAC),

Italian Association for Calorimetry and Thermal Analysis (AICAT),

Interdivisional Group of Calorimetry and Thermal Analysis (GICAT) of the Italian Society of Chemistry,

Sapienza University of Rome (SUR), Dipartimento di Scienze di Base e Applicate per l'Ingegneria Sapienza (SBAI),

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E. Govorcin Bajsic (Croatia)  Z. Zovko Brodarac (Croatia)
PROGRAM
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<th>Thursday, 29th of August</th>
<th>Friday, 30th of August</th>
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<td>8:00-13:00</td>
<td>Short Summer School on TA&amp;C</td>
<td>Janos Kristof, APL1</td>
<td>Vahur Oja, APL2</td>
<td>Kestutis Baltakys, APL3</td>
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<td>9:00-9:30</td>
<td>Coffee break</td>
<td>CEEC-TAC5 &amp; Medicta2019</td>
<td>Poster session 1</td>
<td>Workshop KLTPM</td>
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<td>IL01 IL02 IL03 IL04</td>
<td>9:00-10:30 OP1.14 OP2.14 OP3.14 OP4.14</td>
<td>OP1.15 OP2.15 OP3.15 OP4.15</td>
<td>9:00-10:30 Ill.09 Ill.10 Ill.11 Ill.12</td>
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<td>OP1.01 OP2.01 OP3.01 OP4.01</td>
<td>11:00-11:30 OP1.15 OP2.15 OP3.15 OP4.15</td>
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<td>OP1.02 OP2.02 OP3.02 OP4.02</td>
<td>12:00-12:30 OP1.16 OP2.16 OP3.16 OP4.16</td>
<td>OP1.19 OP2.19 OP3.19 OP4.19</td>
<td>12:30-12:50 OP1.18 OP2.18 OP3.18 OP4.18</td>
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<td>13:00-13:30</td>
<td>Lunch</td>
<td>Nobuyoshi Koga, PL3</td>
<td>Poster session 2</td>
<td>Lunch</td>
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<td>14:30-16:00</td>
<td>International Conference for Young Researchers and Students on TA&amp;C</td>
<td>CEEC-TAC5 &amp; Medicta2019</td>
<td>Poster session 3</td>
<td>Dimitrios N. Bikiaris, PL4</td>
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<td>OP1.06 OP2.06 OP3.06 OP4.06</td>
<td>15:00-15:30 OP1.06 OP2.06 OP3.06 OP4.06</td>
<td>OP1.18 OP2.18 OP3.18 OP4.18</td>
<td>15:30-16:00 Coffee break</td>
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<td>15:30-15:50</td>
<td>IL05 IL06 IL07 IL08</td>
<td>15:30-16:00 OP1.07 OP2.07 OP3.07 OP4.07</td>
<td>15:30-16:00 OP1.08 OP2.08 OP3.08 OP4.08</td>
<td>15:30-16:00 OP1.08 OP2.08 OP3.08 OP4.08</td>
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<td>15:30-16:00</td>
<td>OP1.07 OP2.07 OP3.07 OP4.07</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
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<td>16:30-16:50 OP1.09 OP2.09 OP3.09 OP4.09</td>
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<td>15:30-16:00</td>
<td>OP1.06 OP2.06 OP3.06 OP4.06</td>
<td>16:30-16:50 OP1.07 OP2.07 OP3.07 OP4.07</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
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<td>15:30-16:00</td>
<td>OP1.07 OP2.07 OP3.07 OP4.07</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
<td>16:30-16:50 OP1.09 OP2.09 OP3.09 OP4.09</td>
<td>16:30-16:50 OP1.09 OP2.09 OP3.09 OP4.09</td>
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<td>15:30-16:00</td>
<td>OP1.06 OP2.06 OP3.06 OP4.06</td>
<td>16:30-16:50 OP1.07 OP2.07 OP3.07 OP4.07</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
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<td>15:30-16:00</td>
<td>OP1.07 OP2.07 OP3.07 OP4.07</td>
<td>16:30-16:50 OP1.08 OP2.08 OP3.08 OP4.08</td>
<td>16:30-16:50 OP1.09 OP2.09 OP3.09 OP4.09</td>
<td>16:30-16:50 OP1.09 OP2.09 OP3.09 OP4.09</td>
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<td>17:30-18:30</td>
<td>Opening Ceremony</td>
<td>Crisan Popescu, PL1</td>
<td>Henrik Rudolph, PL2</td>
<td>Welcome Cocktail</td>
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<td>17:30-18:30</td>
<td>OP1.11 OP2.11 OP3.11 OP4.11</td>
<td>17:30-18:30 OP1.12 OP2.12 OP3.12 OP4.12</td>
<td>18:30-19:00 OP1.13 OP2.13 OP3.13 OP4.13</td>
<td>20:00-24:00 Conference Dinner</td>
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**Program of CEEC-TAC5 & Medicta2019**
27-30 August 2019
Roma, Italy

Room A (Aula Magna)
Room B
Room C
Room D (MLAC)
Coffee Break and Poster Session region at SUR
Back side of the Rectorate Palace of SUR
Canteen at the Faculty of Economics of SUR
Hotel Quirinale

Room A, B, C, D are inside of the Rectorate of SUR
Rooms for various GAs are available at Department of Chemistry Building at SUR

Rectorate Palace of the Sapienza University of Rome (SUR), Piazzale Aldo Moro, No. 5, Roma
Canteen at the Faculty of Economics of SUR, Via del Castro Laurenziano, No. 7, Roma
Hotel Quirinale, Via Nazionale, No. 7, 00184 Roma
Tuesday, 27th of August

13^{30}-16^{30}  \textit{Rectorate Palace of SUR}
Registration of participants at CEEC-TAC5 & Medicata2019

17^{30}-18^{30}  \textit{Aula Magna (AM) of the Rectorate Palace of SUR}
Opening Ceremony

18^{30}-19^{30}  \textit{Aula Magna (AM) of the Rectorate Palace of SUR}
\hspace{1em} Chair: Andrei Rotaru
\hspace{1em} PL1  \textbf{Crisan Popescu}
\hspace{1em} \hspace{1em} “Beauty” and the “Thermal Analysis”
\hspace{1em} PL2  \textbf{Henrik Rudolph}
\hspace{1em} \hspace{1em} Ethics in Scientific Publishing

19^{30}-21^{30}  \textit{Rectorate Palace of SUR}
Welcome Party & Cocktail
Wednesday, 28th of August

**AM Room A (Grey)**
Chair: Stefano Vecchio Ciprioti

09:00-09:40 APL1 Thermal analysis at surfaces and interfaces: studies on thin films and intercalation complexes
Janos Kristof

**AM Room A (Grey)**

09:40-09:50 CEEC-TAC5 & Medicta2019 Info

**AM Room A (Grey)**
Chair: Guy Van Assche

09:50-10:30 Workshop: Materials

10:30-10:50 Poster and Coffee break area
Coffee break

**AM Room A (Grey)**
Chair: Matko Erceg

10:50-11:20 IL01 In a search for advanced materials produced by MOCVD: thermodynamics, kinetics, functional properties, relationships
Kseniya Zherikova

11:20-11:40 OP1.01 Doubts on popular Kissinger's method of kinetic evaluation showing essential misfits such as the difference between the maximum of reaction rate and extreme of DTA peak
Jaroslav Sestak

11:40-12:00 OP1.02 Effect of delayed nucleation on crystallization kinetics of chalcogenide glasses
Jana Shanelova

12:00-12:20 OP1.03 Characterization of non-isothermal and isothermal vulcanization kinetics of natural rubber by fast scanning calorimetry
Rui Zhang

12:20-12:40 OP1.04 Thermal degradation of Poly(N,N-dimethylaminoethyl methacrylate). Kinetics and mechanism
Dawid Stawski

12:40-13:00 OP1.05 Thermodynamic analysis and isothermal bainitic transformation kinetics in lean medium-Mn steels
Mateusz Morawiec

**Room B (Green)**
Chair: Giuseppe Lazzara

10:50-11:20 IL02 Characterization of anticorrosive bio coating in the plasma cure process by TG/DTG, DSC and AFM techniques
Cheila G Mothe
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<th>Session</th>
<th>Title</th>
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<td>11(^{20})-11(^{40})</td>
<td>OP2.01</td>
<td>Homocoupling defects of a small donor molecule by rapid heat-cool differential scanning calorimetry</td>
<td>Zhen Liu</td>
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<td>11(^{40})-12(^{00})</td>
<td>OP2.02</td>
<td>DSC applied to the study of an “impossible” system: probenecid-benzamide</td>
<td>Giovanna Bruni</td>
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<tr>
<td>12(^{00})-12(^{20})</td>
<td>OP2.03</td>
<td>Role of the central metal ion in the formation of anion-templated Ln(^{III})[15-metallacrown-5](^{3+}) complexes in aqueous solution</td>
<td>Carmelo Sgarlata</td>
</tr>
<tr>
<td>12(^{20})-12(^{40})</td>
<td>OP2.04</td>
<td>Determination of the short time stability of polymers by fast scanning calorimetry</td>
<td>Teresa Dennenwaldt</td>
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<tr>
<td>12(^{40})-13(^{00})</td>
<td>OP2.05</td>
<td>Characterization of thermoreversible covalent networks for additive manufacturing</td>
<td>Guy Van Assche</td>
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**Room C (Red)**
Chair: Janos Kristof

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<tr>
<td>10(^{50})-11(^{20})</td>
<td>IL03</td>
<td>Application of thermal analysis techniques for studying the possibilities of utilization of oil shale ashes formed at electricity production in Estonia</td>
<td>Tiit Kaljuveee</td>
</tr>
<tr>
<td>11(^{20})-11(^{40})</td>
<td>OP3.01</td>
<td>The use of thermo-mechanical technique to support the development of novel materials for additive manufacturing</td>
<td>Giulia Ognibene</td>
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<tr>
<td>11(^{40})-12(^{00})</td>
<td>OP3.02</td>
<td>Thermochemical characterization of polybenzimidazole with and without nano-ZrO(_2) for ablative material application</td>
<td>Laura Paglia</td>
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<tr>
<td>12(^{00})-12(^{20})</td>
<td>OP3.03</td>
<td>Thermal and multi-analytical investigations of the towers from Corvins’ Castle, Hunedoara, Romania</td>
<td>Rodica Mariana Ion</td>
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<td>12(^{20})-12(^{40})</td>
<td>OP3.04</td>
<td>Thermal and spectroscopic characterization of original and modern restoration mortars at Herculaneum archaeological site</td>
<td>Gemma Leone</td>
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<tr>
<td>12(^{40})-13(^{00})</td>
<td>OP3.05</td>
<td>Multiferroic ceramic materials prepared by flash sintering methods</td>
<td>Luis A Perez-Maqueda</td>
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**Room D (Blue)**
Chair: Crisan Popescu

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<tr>
<td>10(^{50})-11(^{20})</td>
<td>IL04</td>
<td>The (r)evolution of biobased polymers and sustainable materials by thermo-analytical means</td>
<td>Nathanael Guigo</td>
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11\textsuperscript{20}-11\textsuperscript{40} OP4.01 Use of thermogravimetry for qualitative and quantitative analysis of microplastics in soils
Jiri Kucerik

11\textsuperscript{40}-12\textsuperscript{00} OP4.02 On the trail of heat - Isothermal microcalorimetry as a real-time monitor for bacterial contamination
Christian Fricke

12\textsuperscript{00}-12\textsuperscript{20} OP4.03 Peculiarities of the calorimetric monitoring and thermokinetic analysis for anaerobic, microbial growth and product formation – from laboratory to technical scale
Thomas Maskow

12\textsuperscript{20}-12\textsuperscript{40} OP4.04 Cyclophosphamide treatment evoked side effects on skeletal muscle monitored by DSC
Denes Lorinczy

12\textsuperscript{40}-13\textsuperscript{00} OP4.05 Comparison of effects of sauna and cryotherapy treatments on body temperature mapping in elite athletes
Mariusz Binek

Canteen at the Faculty of Economics of SUR
Lunch

13\textsuperscript{00}-14\textsuperscript{30} AM Room A (Grey)
Chair: Ignazio Blanco

14\textsuperscript{30}-15\textsuperscript{10} PL3 Kinetic approach to complex reactions in solid–gas systems: A continuous challenge
Nobuyoshi Koga

15\textsuperscript{10}-15\textsuperscript{20} AM Room A (Grey)
CEEC-TAC5 & Medicta2019 Info

15\textsuperscript{20}-15\textsuperscript{50} IL05 Application of thermal methods to the characterisation of the states of water in precious opal
Paul S. Thomas

15\textsuperscript{50}-16\textsuperscript{10} OP1.06 The kinetics of water freezing from inorganic salt solution confined in the mesopores
Marcin Koniorczyk

16\textsuperscript{10}-16\textsuperscript{30} OP1.07 Kinetic study of liquid sodium– calcium hydroxide reaction for safety assessment of sodium cooled fast reactor
Shin Kikuchi

16\textsuperscript{30}-16\textsuperscript{50} OP1.08 Influence of mechanical activation on kinetics and formation of spinel monitored by DTA
Nina Obradovic
**Room B (Green)**
Chair: Cheila G Mothe

15\textsuperscript{20}-15\textsuperscript{50} IL06 Notes about the flow behaviour of cellulosic fiber thermoplastic composites
Ahmed Elsabbagh

15\textsuperscript{50}-16\textsuperscript{10} OP2.06 Calorimetry: a complementary method to study the mechanical energy conversion properties of nanoporous materials
Isabelle Beurroies

16\textsuperscript{10}-16\textsuperscript{30} OP2.07 Miniaturized differential scanning calorimeter with integrated oven and reference (Chip-DSC)
Hans-W. Marx

16\textsuperscript{30}-16\textsuperscript{50} OP2.08 Thermal properties of photocatalytic and gas sensing carbon nanostructures and nanocomposites
Imre Miklos Szilagyi

**Room C (Red)**
Chair: Tiit Kaljuvee

15\textsuperscript{20}-15\textsuperscript{50} IL07 Thermal behaviour of cement bypass dust revalorization
Jonjaua Ranogajec

15\textsuperscript{50}-16\textsuperscript{10} OP3.06 New materials for environmental remediation: synthesis and characterization of LDH’s REE–doped (REE= Rare Earths Element) for lanthanides recovery from waste
Anna Maria Cardinale

16\textsuperscript{10}-16\textsuperscript{30} OP3.07 Synthesis and crystallization pattern of lead-free perovskites by sol-gel and hydrothermal routes
Riccardo Ceccato

16\textsuperscript{30}-16\textsuperscript{50} OP3.08 Thermal behaviour and microstructural characterization of natural clayey materials, sands, volcanic ashes and geopolymer composites
Maria Rosaria Tine

**Room D (Blue)**
Chair: Nathanael Guigo

15\textsuperscript{20}-15\textsuperscript{50} IL08 Hydrogen-bonded complexes in binary mixtures of pyridine and its methyl derivatives with water
Wojciech Marczak

15\textsuperscript{50}-16\textsuperscript{10} OP4.06 Modification of blood serum DSC profiles by sauna treatments in cross country skiers during the exercise cycle
Klaudia Duch

16\textsuperscript{10}-16\textsuperscript{30} OP4.07 Calorimetric investigation of an equilibrium reaction of glycolysis for the determination of cell mimicking kinetic and thermodynamic parameters
Kristina Vogel
16^{30}-16^{50} OP4.08 Applications of thermal analysis for testing elastomeric composites
Anna Sowinska

16^{50}-17^{10} Poster and Coffee break area
Coffee break

AM Room A (Grey)
Chair: Ksenyia Zherikova

17^{10}-17^{30} OP1.09 Temperature functions and induction periods
Peter Simon

17^{30}-17^{50} OP1.10 Estimating errors in the determination of activation energy by nonlinear isoconversional methods applied for thermoanalytical measurements
Petru Budrigeac

17^{50}-18^{10} OP1.11 In-situ visual observation thermal analysis: STA and DSC equipped with optical microscope
Tadashi Arii

18^{10}-18^{30} OP1.12 Thermal analysis of the RFX-mod2 operating conditions for the design of the temperature measurement system
Mauro Dalla Palma

18^{30}-18^{50} OP1.13 Quasi-equilibrated thermodesorption as a new method for studying adsorption of water in porous coordination polymers
Waclaw Makowski

Room B (Green)
Chair: Paul S Thomas

17^{10}-17^{30} OP2.09 Studies on the influence of environmental factors and composition on the thermal stability of paint coat deposited on pinewood
Andreea Mihaila

17^{30}-17^{50} OP2.10 Properties of poly(ethylene 2,5-furandicarboxylate) and its nanocomposites
Nicolas Sbirrazzuoli

17^{50}-18^{10} OP2.11 Determination of the sublimation vapour pressure of thermally labile compounds with fast scanning calorimetry
Amir Abdelaziz

18^{10}-18^{30} OP2.12 Development and characterization of multifunctional YIG/epoxy nanocomposites
Aikaterini Sanida

18^{30}-18^{50} OP2.13 Thermally-stimulated phenomena observed in isotactic polypropylene and high-density polyethylene matrices reinforced with graphene nanoplatelets and glass fibres
Evangelia Tarani
**Room C (Red)**

Chair: Jonjaua Ranogajec

17\textsuperscript{10}-17\textsuperscript{30} OP3.09 Phase relations in the Al\textsubscript{2}O\textsubscript{3}-TiO\textsubscript{2}-SiO\textsubscript{2} system
Ilatovskaja, Mariia

17\textsuperscript{30}-17\textsuperscript{50} OP3.10 Development of phases in the sol-gel derived mixed-metal-oxide (Al\textsubscript{2}O\textsubscript{3}-TiO\textsubscript{2}-ZnO) functional sorbent material
Vilko Mandic

17\textsuperscript{50}-18\textsuperscript{10} OP3.11 Impact of thermal analysis in the study of composite photocatalysts with layered type of structure
Irina Zvereva

18\textsuperscript{10}-18\textsuperscript{30} OP3.12 Thermolysis of organic-inorganic perovskite-type layered titanates
Oleg Silyukov

18\textsuperscript{30}-18\textsuperscript{50} OP3.13 Investigation of structural, optical and magnetic properties of Ni\textsubscript{2}Zn\textsubscript{1-x}Fe\textsubscript{2}O\textsubscript{4} (0≤x≤1) spinel based nanopigments
Thomas Dippong

**Room D (Blue)**

Chair: Ahmed Elsabbagh

17\textsuperscript{10}-17\textsuperscript{30} OP4.09 Analysis of polymers and polymer mixtures using differential scanning calorimetry and advanced software
Ekkehrad Fuglein

17\textsuperscript{30}-17\textsuperscript{50} OP4.10 Evaluation for degradation of polymer materials using sample observation TG-DSC system
David Peter Semiono

17\textsuperscript{50}-18\textsuperscript{10} OP4.11 New insights into the polymorphic changes of Metoprolol Succinate
Milan Antonijevic

18\textsuperscript{10}-18\textsuperscript{30} OP4.12 Nucleating agents with dual nucleating ability in isotactic polypropylene
Flora Horvath

18\textsuperscript{30}-18\textsuperscript{50} OP4.13 Thermal analysis of aliphatic polyesters stabilized by polyphenols
Olga Olejníc

18\textsuperscript{50}-19\textsuperscript{10} **Evening Break**

19\textsuperscript{10}-20\textsuperscript{20} GA1 Medicta General Assemblies

**Room B (Green)**

19\textsuperscript{10}-20\textsuperscript{20} GA2 CEEC-TAC General Assembly
Thursday, 29th of August

AM Room A (Grey)
Chair: Stefano Vecchio Ciprioti

0900-0940 APL2 Application of thermal analysis to study vaporization parameters of narrow boiling range oil fractions
Vahur Oja

0940-1040 Poster and Coffee break area
Poster Session 1

1040-1100 Poster and Coffee break area
Coffee Break

AM Room A (Grey)
Chair: Stefano Materazzi

1100-1120 OP1.14 Use of Thermal Analysis to predict the conditions for thermal explosion to occur: application to a Ce triethanolamine complex
Jordi Farjas

1120-1140 OP1.15 Decoupling between vitrification kinetics and molecular mobility in micrometric poly(4-tert-butylstyrene) (PtBS) by fast scanning calorimetry
Xavier Monier

1140-1200 OP1.16 Fundamental study on thermal decomposition and hazard evaluation of periodate/fuel mixtures
Katsumi Katoh

Room B (Green)
Chair: Vahur Oja

1100-1120 OP2.14 New organic-inorganic pigments as colorants for polymer composites
Anna Marzek

1120-1140 OP2.15 Modelling polyurethane reactions by combining differential scanning calorimetry and micro-calorimetry
Robrecht Verhelle

1140-1200 OP2.16 Simulation of crystalline morphology from calorimetric crystallization curves
Alfred Menyhard

Room C (Red)
Chair: Michelina Catauro

1100-1120 OP3.14 Spotting the difference of the thermal behaviour of structurally-related mono- and dicationic ionic liquids
Andrea Mazzetta
11^{20}-11^{40} OP3.15  GUL cement degree of hydration of mortars with & without SCMs
Samir Chidiac

11^{40}-12^{00} OP3.16  Simultaneous thermogravimetric and differential thermal analysis determination of products formed during hydration of blended Portland cement doped with zinc
Jiri Svec

Room D (Blue)
Chair: Concetta Giancola

11^{00}-11^{20} OP4.14  Wood biocomposites with different epoxy systems. Thermal behaviour
Cristian Dragos Varganici

11^{20}-11^{40} OP4.15  Unfolding and refolding of lysozyme dissolved in glycerol by Fast Scanning Calorimetry
Timur Mukhametzyanov

11^{40}-12^{00} OP4.16  Thermogravimetric and evolved gas analysis of polymer materials designed for 3D printing
Raminta Skvorcinskiene

12^{00}-13^{00} Poster and Coffee break area
Poster Session 2

Canteen at the Faculty of Economics of SUR
Lunch

13^{00}-14^{30} Poster and Coffee break area
Poster Session 3

15^{30}-20^{00} Afternoon Break

20^{00}-24^{00} Hotel Quirinale
Conference Dinner
Friday, 30th of August

**AM Room A (Grey)**
Chair: Stefano Vecchio Ciprioti

0900-0940 APL3 Eco-friendly calcium silicates: preparation techniques, thermal properties and application
Kestutis Baltakys

**AM Room A (Grey)**
0940-0950 CEEC-TAC6 / Medict2021 Info

**AM Room A (Grey)**
Chair: Jiri Malek

0950-1030 Workshop: Kinetics

1030-1050 *Poster and Coffee break area*
Coffee break

**AM Room A (Grey)**
Chair: Svetlana Danilova-Tretiak

1050-1120 IL09 DSC insights into thermooxidative phenomena: from ferrites to mustard oil
Ranjit K. Verma

1120-1140 OP1.17 Influence of copper compounds on thermal behaviour of ammonium dinitramide-based energetic ionic liquid
Hiroki Matsunaga

1140-1200 OP1.18 Thermal decomposition mechanism of ammonium nitrate based on thermal analysis and computational chemistry
Yu-ichiro Izato

1200-1220 OP1.19 Energy industry waste as a thermochemical energy storage resource
Birgit Maaten

1220-1240 OP1.20 Efficient Promoter for Methane Storage in Hydrate Form based on Ethylene Diamine: Thermochemistry and Kinetics Study
Mikhail Varfolomeev

1240-1300 OP1.21 Multistage process of gas hydrate growth in various media
Andrey Stoporev

**Room B (Green)**
Chair: Anna Vykydalova

1050-1120 IL10 Thermal analysis techniques applied to rare earth alloys investigation
Adriana Saccone

1120-1140 OP2.17 Calorimetric and X-ray studies of RE tantalates and hafnates
Konstantin Gavrichev
1140-1200 OP2.18 Thermodynamics of bistable metal complexes
Alexey Markin

1200-1220 OP2.19 Solvation enthalpy and how it can be useful
Ruslan Nagrimanov

1220-1240 OP2.20 Prediction of sublimation functions of molecular crystals based on melting points
German Perlovich

1240-1300 OP2.21 Chemical thermodynamics of carbosilane dendrimers and siloxane nanogels as promising macromolecular nano-objects
Semen Sologubov

Room C (Red)
Chair: Kestutis Baltakys

1050-1120 IL11 Compressive strength and phase characterizations of Portland limestone calcined clay cements
Arnon Chaipanich

1120-1140 OP3.17 Thermal and biological properties of several composite materials prepared by sol-gel method
Michelina Catauro

1140-1200 OP3.18 Early hydration stages of iron ore and high initial strength Portland cement composites: a study by non-conventional DSC and calorimetry
Jo Dweck

1200-1220 OP3.19 Early hydration stages of iron ore tailings and high initial strength Portland cement composites: a study by thermogravimetry
Karla Peitl Miller

1220-1240 OP1.20 Thermal debinding of multicomponent binder used for powder injection moulding of Al₂O₃ powder
Grzegorz Matula

1240-1300 OP3.21 Effect of cooling rate on characteristic temperatures and microstructure development of AlSi₉MgMn alloy
Zdenka Zovko Brodarac

Room D (Blue)
Chair: Wojciech Marczak

1050-1120 IL12 UV-cured di/tri(methoxy) vinyl silane modified urethane acrylate blends for optical coatings: thermal and optical properties
Dana Luca Motoc

1120-1140 OP4.17 Thermal analysis of components of mechanochemical interaction of quercetin and glucose
Sergey Mamylov
11^{40}-12^{00}  OP4.18  Thermal stability of hen egg-white lysozyme in aqueous-organic mixtures  
Timur Magsumov  
12^{00}-12^{20}  OP4.19  Characterization of thermal properties of fat extracted from ruby chocolate by using DSC, PDSC and TGA methods  
Karolina Dolatowska-Zebrowska  
12^{20}-12^{40}  OP4.20  On the investigation of co-crystals of 2,4-diaminopyrimidine based dihydrofolate reductase inhibitors  
Joao A. Baptista  
12^{40}-13^{00}  OP4.21  Evaluation of stabilizing effect of potential antioxidants in polymers by DSC  
Zuzana Cibulkova  

Canteen at the Faculty of Economics of SUR  
Lunch  

AM Room A (Grey)  
Chair: Giuseppe Arena  
14^{30}-15^{10}  PL4  Thermal characteristics and decomposition mechanism of furanoate polyesters, a new class of biobased polymers  
Dimitrios N. Bikiaris  

AM Room A (Grey)  
15^{10}-15^{20}  CEEC-TAC6 / Medicta2021 Info  

AM Room A (Grey)  
Chair: Ranjit K Verma  
15^{20}-15^{50}  IL13  Thermal and thermophysical analysis of SiC influence on different polymer matrices  
Svetlana Danilova-Tretiak  
15^{50}-16^{10}  OP1.22  Synthesis and catalytic activity of cyanophenoxo- substituted phthalocyaninates of d- and f- metals  
Dmitry Erzunov  
16^{10}-16^{30}  OP1.23  Hybrid material based on phthalocyanines compounds immobilized on silica matrix. Catalytic activity and thermal stability  
Arthur Vashurin  

Room B (Green)  
Chair: Arnon Chairpanich  
15^{20}-15^{50}  IL14  Study of the thermooxidative stability of aged beeswax using differential scanning calorimetry  
Anna Vykydalova  
15^{50}-16^{10}  OP2.22  Thermodynamics of formation of hybrid organic-inorganic perovskite-type halides  
Dmitry Tsvetkov
16^{10}-16^{30}  OP2.23  Decomposition of metal-organic compounds: films versus powder  
Silvia Rasi

**Room C (Red)**  
Chair: Adriana Saccone

15^{30}-15^{50}  IL15  Chill sensitiveness and thermal analysis parameters relationship in hypo-eutectic, Ca and Ca-La inoculated commercial grey irons  
Iulian Riposan

15^{50}-16^{10}  OP3.22  Thermal stability of retained austenite in isothermally held 0.18C-4Mn-1.7Al bainitic steel  
Aleksandra Kozlowska

16^{10}-16^{30}  OP3.23  Thermodynamic consideration of Al-2,2Mg-2,1Li alloy behaviour  
Franjo Kozina

**Room D (Blue)**  
Chair: Dana Luca Motoc

15^{20}-15^{50}  IL016  Modulation of nanoparticle activity and associated complex biological responses by the nanobiointerface  
Pablo Taboada

15^{50}-16^{10}  OP4.22  Glassy dynamics of polymer and other materials by fast scanning calorimetry  
Daniele Cangialosi

16^{10}-16^{30}  OP4.23  The effect of pressure during cure on the thermal conductivity of epoxy composites filled with boron nitride  
Sasan Moradi

16^{30}-16^{50}  **Poster and Coffee break area**  
Coffee break

**AM Room A (Grey)**  
Chair: Dimitrios N Bikiaris

16^{50}-17^{10}  OP1.24  Use of methods of thermal analysis in study of metal-organic frameworks  
Vladimir Zelenak

17^{10}-17^{30}  OP1.25  Characterization and kinetics of coal combustion: Effect of particle size  
Mustafa Versan Kok

17^{30}-17^{50}  OP1.26  Microwave assisted advanced oxidation process: kinetic analysis, temperature effect and activation energy  
Carlo Ferrari
Thermoanalytical characterization and microwave heating response of deep eutectic solvents
Angelica Mero

**Room B (Green)**
Chair: Alfred Menyhard

Application of isothermal and isoperibolic calorimetry to assess the effect of zinc on hydration of cement blended with fly ash
Pavel Siler

Characterization of nitrogen groups on carbon surface by TG-MS
Gabriela Hotova

The DSC monitoring of oil melting to follow the oil curing
Silvia Pizzimenti

ISG-like membrane thermodynamics: a stepwise calorimetric investigation
Francesca Saitta

**Room C (Red)**
Chair: Iulian Riposan

Effects of homogenization conditions on the microstructure evolution of aluminium alloy from series 8XXX
Maja Voncina

Crystallization behaviour of Co-9Al-9W superalloy
Damian Migas

Effect of Ni on solidification of duplex low-density steels
Tilen Balasko

Evolution of Fe based intermetallic phases during homogenisation of Al-Fe hypoeutectic alloy
Joze Arbeiter

**Room D (Blue)**
Chair: Pablo Taboada

Calorimetric study of host-guest complex formations of crown ethers and cyclodextrins with biologically important molecules
Tatyana Usacheva

Synthesis and characterization of crosslinked polyethylene/graphite composite for geothermal heating/cooling pipe applications
Dimitra Kourtidou

Investigating noncanonical DNA structures by calorimetry and spectroscopic techniques
Jussara Amato
17^{50}-18^{10}  
OP4.27  Insights in thermal transitions of polymers by Modulated Temperature FTIR  
Valerio Di Lisio

18^{10}-18^{30}  
Closing Ceremony
LIST OF COMMUNICATIONS

PLENARY LECTURES
PL1 Popescu, Crisan "Beauty" and the "Thermal Analysis"
PL2 Rudolph, Henrik Ethics in Scientific Publishing
PL3 Koga, Nobuyoshi Kinetic approach to complex reactions in solid–gas systems: A continuous challenge
PL4 Bikiaris, Dimitrios Thermal characteristics and decomposition mechanism of furanoate polyesters, a new class of biobased polymers

AWARD PLENARY LECTURES
APL1 Kristof, Janos Thermal analysis at surfaces and interfaces: studies on thin films and intercalation complexes
APL2 Oja, Vahur Application of thermal analysis to study vaporization parameters of narrow boiling range oil fractions
APL3 Baltakys, Kestutis Eco-friendly calcium silicates: preparation techniques, thermal properties and application

INVITED LECTURES
IL01 Zherikova, Kseniya In a search for advanced materials produced by MOCVD: thermodynamics, kinetics, functional properties, relationships
IL02 Mothe, Cheila G. Characterization of anticorrosive bio coating in the plasma cure process by TG/DTG, DSC and AFM techniques
IL03 Kaljuvee, Tiit Application of thermal analysis techniques for studying the possibilities of utilization of oil shale ashes formed at electricity production in Estonia
IL04 Guigo, Nathanael The (r)evolution of biobased polymers and sustainable materials by thermo-analytical means
IL05 Thomas, Paul S. Application of thermal methods to the characterisation of the states of water in precious opal
IL06 Elsabbagh, Ahmed Notes about the flow behaviour of cellulosic fiber thermoplastic composites
IL07 Ranogajec, Jonjaua Thermal behaviour of cement bypass dust revalorization
IL08 Marczak, Wojciech Hydrogen-bonded complexes in binary mixtures of pyridine and its methyl derivatives with water
IL09 Verma, Ranjit K. DSC insights into thermooxidative phenomena: from ferrites to mustard oil
IL10 Saccone, Adriana Thermal analysis techniques applied to rare earth alloys investigation
IL11 Chairpanich, Arnon Compressive strength and phase characterizations of Portland limestone calcined clay cements
IL12 Luca Motoc, Dana UV-cured di/tri(methoxy) vinyl silane modified urethane acrylate blends for optical coatings: thermal and optical properties

IL13 Danilova-Tretiak, Svetlana Thermal and thermophysical analysis of SiC influence on different polymer matrices

IL14 Vykydalova, Anna Study of the thermooxidative stability of aged beeswax using differential scanning calorimetry

IL15 Riposan, Iulian Chill sensitiveness and thermal analysis parameters relationship in hypo-eutectic, Ca and Ca-La inoculated commercial grey irons

IL16 Taboada, Pablo Modulation of nanoparticle activity and associated complex biological responses by the nanobiointerface

ORAL PRESENTATIONS

ORAL PRESENTATIONS 1 Theory & Methods, Kinetics & Catalysis, Fuels & Biofuels, Energetics and Applied Thermal Engineering

OP1.01 Sestak, Jaroslav Doubts on popular Kissinger’s method of kinetic evaluation showing essential misfits such as the difference between the maximum of reaction rate and extreme of DTA peak

OP1.02 Shanelova, Jana Effect of delayed nucleation on crystallization kinetics of chalcogenide glasses

OP1.03 Zhang, Rui Characterization of non-isothermal and isothermal vulcanization kinetics of natural rubber by fast scanning calorimetry

OP1.04 Stawski, Dawid Thermal degradation of Poly(N,N-dimethylaminoethyl methacrylate). Kinetics and mechanism

OP1.05 Morawiec, Mateusz Thermodynamic analysis and isothermal bainitic transformation kinetics in lean medium-Mn steels

OP1.06 Koniorczyk, Marcin The kinetics of water freezing from inorganic salt solution confined in the mesopores

OP1.07 Kikuchi, Shin Kinetic study of liquid sodium– calcium hydroxide reaction for safety assessment of sodium cooled fast reactor

OP1.08 Obradovic, Nina Influence of mechanical activation on kinetics and formation of spinel monitored by DTA

OP1.09 Simon, Peter Temperature functions and induction periods

OP1.10 Brodugeac, Petru Estimating errors in the determination of activation energy by nonlinear isoconversional methods applied for thermoanalytical measurements

OP1.11 Ariii, Tadashi In-situ visual observation thermal analysis: STA and DSC equipped with optical microscope

OP1.12 Dalla Palma, Mauro Thermal analysis of the RFX-mod2 operating conditions for the design of the temperature measurement system

OP1.13 Makowski, Waclaw Quasi-equilibrated thermodesorption as a new method for studying adsorption of water in porous coordination
OP1.14 Farjas, Jordi polymers
Use of Thermal Analysis to predict the conditions for thermal explosion to occur: application to a Ce triethanolamine complex

OP1.15 Monnier, Xavier Decoupling between vitrification kinetics and molecular mobility in micrometric poly(4-tert-butylstyrene) (PtBS) by fast scanning calorimetry

OP1.16 Katoh, Katsumi Fundamental study on thermal decomposition and hazard evaluation of periodate/fuel mixtures

OP1.17 Matsunaga, Hiroki Influence of copper compounds on thermal behaviour of ammonium dinitramide-based energetic ionic liquid

OP1.18 Izato, Yu-ichiro Composition mechanism of ammonium nitrate based on thermal analysis and computational chemistry

OP1.19 Maaten, Birgit Energy industry waste as a thermochemical energy storage resource

OP1.20 Varfolomeev, Mikhail Efficient promoter for methane storage in hydrate form based on ethylene diamine: Thermochemistry and Kinetics study

OP1.21 Stoporev, Andrey Multistage process of gas hydrate growth in various media

OP1.22 Erzunov, Dmitry Synthesis and catalytic activity of cyanophenoxy-substituted phthalocyanines of d- and f- metals

OP1.23 Vashurin, Arthur Hybrid material based on phthalocyanines compounds immobilized on silica matrix. Catalytic activity and thermal stability

OP1.24 Zelenak, Vladimir Use of methods of thermal analysis in study of metal-organic frameworks

OP1.25 Kok, Mustafa Versan Characterization and kinetics of coal combustion: Effect of particle size

OP1.26 Ferrari, Carlo Microwave assisted advanced oxidation process: kinetic analysis, temperature effect and activation energy

OP1.27 Mero, Angelica Thermoanalytical characterization and microwave heating response of deep eutectic solvents

ORAL PRESENTATIONS 2 Thermodynamics, Thermochemistry & Calorimetry and Thin Films & Nanomaterials

OP2.01 Liu, Zhen Homocoupling defects of a small donor molecule by rapid heat-cool differential scanning calorimetry

OP2.02 Bruni, Giovanna DSC applied to the study of an “impossible” system: probenecid-benzamide

OP2.03 Sgarlata, Carmelo Role of the central metal ion in the formation of anion-templated LnIII[15-metallacrown-5]3+ complexes in aqueous solution

OP2.04 Dennenwaldt, Teresa Determination of the short time stability of polymers by fast scanning calorimetry

OP2.05 Van Assche, Guy Characterization of thermoreversible covalent networks for additive manufacturing

OP2.06 Beurroies, Isabelle Calorimetry: a complementary method to study the mechanical energy conversion properties of nanoporous materials
| OP2.07  | Marx, Hans-W. | Miniatrurized differential scanning calorimeter with integrated oven and reference (Chip-DSC) |
| OP2.08  | Szilagyi, Imre Miklos | Thermal properties of photocatalytic and gas sensing carbon nanostructures and nanocomposites |
| OP2.09  | Mihaila, Andreea | Studies on the influence of environmental factors and composition on the thermal stability of paint coat deposited on pinewood |
| OP2.10  | Sbirrazzuoli, Nicolas | Properties of poly(ethylene 2,5-furandicarboxylate) and its nanocomposites |
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| OP2.12  | Sanida, Aikaterini | Development and characterization of multifunctional YIG/epoxy nanocomposites |
| OP2.13  | Tarani, Evangelia | Thermally-stimulated phenomena observed in isotactic polypropylene and high-density polyethylene matrices reinforced with graphene nanoplatelets and glass fibres |
| OP2.14  | Marzec, Anna | New organic-inorganic pigments as colorants for polymer composites |
| OP2.15  | Verhelle, Robrecht | Modelling polyurethane reactions by combining differential scanning calorimetry and micro-calorimetry |
| OP2.16  | Menyhard, Alfred | Simulation of crystalline morphology from calorimetric crystallization curves |
| OP2.17  | Gavrichev, Konstantin | Calorimetric and X-ray studies of RE tantalates and hafnates |
| OP2.18  | Markin, Alexey | Thermodynamics of bistable metal complexes |
| OP2.19  | Nagrimanov, Ruslan | Solvation enthalpy and how it can be useful |
| OP2.20  | Perlovich, German | Prediction of sublimation functions of molecular crystals based on melting points |
| OP2.21  | Sologubov, Semen | Chemical thermodynamics of carbosilane dendrimers and siloxane nanogels as promising macromolecular nano-objects |
| OP2.22  | Tsvetkov, Dmitry | Thermodynamics of formation of hybrid organic-inorganic perovskite-type halides |
| OP2.23  | Rasi, Silvia | Decomposition of metal-organic compounds: films versus powder |
| OP2.24  | Siler, Pavel | Application of isothermal and isoperibolic calorimetry to assess the effect of zinc on hydration of cement blended with fly ash |
| OP2.25  | Hotova, Gabriela | Characterization of nitrogen groups on carbon surface by TG-MS |
| OP2.26  | Pizzimenti, Silvia | The DSC monitoring of oil melting to follow the oil curing |
| OP2.27  | Saitta, Francesca | ISG-like membrane thermodynamics: a stepwise calorimetric investigation |
| OP3.01 | Ognibene, Giulia | The use of thermo-mechanical technique to support the development of novel materials for additive manufacturing |
| OP3.02 | Paglia, Laura | Thermochemical characterization of polybenzimidazole with and without nano-ZrO₂ for ablative material application |
| OP3.03 | Ion, Rodica Mariana | Thermal and multi-analytical investigations of the towers from Corvins’ Castle, Hunedoara, Romania |
| OP3.04 | Leone, Gemma | Thermal and spectroscopic characterization of original and modern restoration mortars at Herculaneum archaeological site |
| OP3.05 | Perez-Maqueda, Luis A. Maria | Multiferroic ceramic materials prepared by flash sintering methods |
| OP3.06 | Cardinale, Anna Maria | New materials for environmental remediation: synthesis and characterization of LDH’s REE–doped (REE= Rare Earths Element) for lanthanides recovery from waste |
| OP3.07 | Ceccato, Riccardo | Synthesis and crystallization pattern of lead-free perovskites by sol-gel and hydrothermal routes |
| OP3.08 | Tine, Maria Rosaria | Thermal behaviour and microstructural characterization of natural clayey materials, sands, volcanic ashes and geopolymer composites |
| OP3.09 | Ilatovskaia, Mariia | Phase relations in the Al₂O₃-TiO₂-SiO₂ system |
| OP3.10 | Mandic, Vilko | Development of phases in the sol-gel derived mixed-metal-oxide (Al₂O₃-TiO₂-ZnO) functional sorbent material |
| OP3.11 | Zvereva, Irina | Impact of thermal analysis in the study of composite photocatalysts with layered type of structure |
| OP3.12 | Silyukov, Oleg | Thermolysis of organic-inorganic perovskite-type layered titanates |
| OP3.13 | Dippong, Thomas | Investigation of structural, optical and magnetic properties of NiₓZn₁₋ₓFe₂O₄ (0≤x≤1) spinel based nanopigments |
| OP3.14 | Mezzetta, Andrea | Spotting the difference of the thermal behaviour of structurally-related mono- and dicationic ionic liquids |
| OP3.15 | Chidiac, Samir | GUL cement degree of hydration of mortars with & without SCMs |
| OP3.16 | Svec, Jiri | Simultaneous thermogravimetric and differential thermal analysis determination of products formed during hydration of blended Portland cement doped with zinc |
| OP3.17 | Catauro, Michelina | Thermal and biological properties of several composite materials prepared by sol-gel method |
| OP3.18 | Dweck, Jo | Early hydration stages of iron ore and high initial strength Portland cement composites: a study by non-conventional DSC and calorimetry |
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