

PROGRAMME

Wednesday, 19 July	
09h00 – 10h30	Registration
10h30 – 11h30	Opening Ceremony
11h30 – 12h30	Plenary Lecture 1
12h30 – 14h00	Lunch
14h00 – 15h00	Plenary Lecture 2
15h00 – 15h45	Key Lecture 1
15h45 – 16h15	Coffee Break
16h15 – 18h30	Oral Communications
19h00 – 20h30	Welcome Reception
Thursday, 20 July	
09h00 – 10h00	Plenary Lecture 3
10h00 – 10h45	Key Lecture 2
10h45 – 11h15	Coffee Break
11h15 – 12h45	Oral Communications
12h45 – 14h00	Lunch
14h00 – 15h00	Plenary Lecture 4
15h00 – 15h45	Key Lecture 3
15h45 – 16h15	Coffee Break
16h15 – 17h30	Oral Communications
17h30 – 18h30	Posters Session
20h00	Conference Dinner
Friday, 21 July	
09h00 – 09h45	Key Lecture 4
09h45 – 10h30	Key Lecture 5
10h30 – 11h00	Coffee Break
11h00 – 12h15	Oral Communications
12h15 – 13h15	Plenary Lecture 5
13h15 – 13h45	Closing Ceremony / Farewell Port Wine

WEDNESDAY JULY 19

09h00 – 10h30 REGISTRATION

10h30 – 11h30 Room A OPENING CEREMONY

Room A Chair: Stefano Vecchio Cipriotti

11h30 – 12h30 PL1 **Mechanisms and physico-geometrical modeling for kinetic description of solid-gas reactions**
Loïc Favergeon

12h30 – 14h00 LUNCH

Room A Chair: Chiriac Rodica

14h00 – 15h00 PL2 **POSS, a very thermally stable nanoparticle: state of the art and future developments**
Ignazio Blanco

15h00 – 15h45 KL1 **Solid-state of active pharmaceutical ingredients: The role of thermal analysis**
Ricardo Castro

15h45 – 16h15 COFFEE BREAK

PARALLEL SESSIONS

Room A Chairs: Matko Erceg and Ana Luísa Silva

- 16h15 – 16h30 O.A1 **A physical-chemical study on oil-protein mixtures used as paint binders**
Giulia Carotj, Alessia Cipolli, Silvia Pizzimenti, Riccardo Ducoli, Ophélie Ranquet, Norbert Willenbacher, Patrick Dietemann, Luca Bernazzani, Celia Duce, Ilaria Bonaduce
- 16h30 – 16h45 O.A2 **Measurement of sublimation and vaporization enthalpies of two aza crown ethers and two cryptands by isothermal thermogravimetry methodology**
Daniel Esparza, Aaron Rojas
- 16h45 – 17h00 O.A4 **Quantification of π -electron correlation in polyaromatic hydrocarbons**
Carlos F. R. A. C. Lima, Nuno A. S. Dias, Marco A. L. Lima, Ana L. M. Oliveira, Maria L. Nogueira, André Melo, Luís M. N. B. F. Santos
- 17h00 – 17h15 O.A7 **Study of the kinetics and thermodynamics governing O₃ dissolution in concentrated nitric acid**
Zyad Ouled Alla, Loïc Marchetti, Philippe Moisy
- 17h15 – 17h30 O.A8 **Evaluation of thermal and physicochemical properties for type-II Deep Eutectic Solvents**
Chiara Pelosi, Celia Duce, José Gonzalez-Rivera, Maria Rosaria Tinè, Gianluca Ciancaleoni, Luca Bernazzani
- 17h30 – 17h45 O.A10 **The rapid method to evaluate the thermooxidative stability of organic materials using DSC**
Anna Vykydalová, Zuzana Cibulková, Tibor Dubaj, Peter Šimon

- 17h45 – 18h00 O.D1 **A comparative study of recycled HDPE and PESu composites enhanced with hemp fibers used as alternative WPCs**
Iouliana Chrysafi, Eleftheria Xanthopoulou, Alexandra Zamboulis, Dimitrios N. Bikiaris
- 18h00 – 18h15 O.D2 **Thermo-mechanical analysis of fully-recyclable bio-based epoxy latent systems for green composites manufacturing and their recycling**
Lorena Saitta, Alberta Latteri, Ignazio Blanco, Claudio Tosto, Giuliana Rizzo, Gianluca Cicala
- 18h15 – 18h30 O.D6 **Poly(alkylene vanillates): A novel series of sustainable polyesters based on vanillic acid**
Eleftheria Xanthopoulou, Alexandra Zamboulis, Zoi Terzopoulou, Dimitrios N. Bikiaris, Georgios Z. Papageorgiou

Room B Chairs: Bénédicte Prelot and Vera Freitas

- 16h15 – 16h30 O.B1 **Thermal degradation kinetics of virgin and recycled polymers and polymer blends using the random chain-scission model**
Dimitris S. Achilias, Maria Paraskevi Belioka, Mohammad Nahid Siddiqui, Halim Hamid Redhwi
- 16h30 – 16h45 O.B2 **Study of UO₂ oxidation at high temperature under an Ar–O₂ atmosphere**
Priscilla Berenguer-Besnard, Laetitia Vieille, Loïc Favergeon, Loïc Marchetti, Philippe Martin
- 16h45 – 17h00 O.B3 **Kinetic analysis of the thermal decomposition of BaCO₃ in YBCO precursor films**
Sihem Zaidi, Anna Planella, Genís Riera-Agüera, Daniel Sánchez-Rodríguez, Lavinia Saltarelli, Jordi Farijas, Pere Roura-Grabulosa, X. Obradors, T. Puig
- 17h00 – 17h15 O.B4 **Crystallization kinetics of polyethylene: An application of the NPK method**
Frida Monzón, M. Dolores Rovira, Julià Sempere, Rosa Nomen
- 17h15 – 17h30 O.B5 **The use of TGA to study the degradation of polymers**
Prakhar Pouranick, Robrecht René Verhelle, Guy Van Assche, Joost Brancart
- 17h30 – 17h45 O.C4 **Dissecting the effects of low-molecular-weight heparins on antithrombin III thermodynamic stability**
Francesca Saitta, Juri Masuri, Marco Signorelli, Sabrina Bertini, Antonella Bisio, Dimitrios Fessas
- 17h45 – 18h00 O.C1 **Unambiguous identification of different API crystalline phases: thermal analysis to the rescue - two case studies**
João A. Baptista, Mário T. S. Rosado, Ricardo A. E. Castro, João Canotilho, Elvira Fantechi, Laura Chelazzi, Samuele Ciattini, M. Ermelinda S. Eusébio
- 18h00 – 18h15 O.C7 **Glassy dynamics and crystallization kinetics of molecular pharmaceuticals**
Daniele Sonaglioni, Elpidio Tombari, Simone Capaccioli
- 18h15 – 18h30 O.C6 **Effects of seed germination on cowpea β -vignin native structure: a calorimetric and thermodynamic investigation**
Francesca Saitta, Stefano De Benedetti, Giuditta C. Heinzl, Alessio Scarafoni, Dimitrios Fessas

19h00 – 20h30 WELCOME RECEPTION

THURSDAY JULY 20

Room A Chair: Maria Ermelinda Eusébio

09h00 – 10h00 PL3 **Calorimetry: a powerful methodology for studying the stability of G-quadruplexes and their interaction with anticancer drugs**
Concetta Giancola

10h00 – 10h45 KL2 **Implementation of spark discharge methodology into fast scanning calorimetry for the case of nanoscale homogeneous alloy materials**
Vilko Mandić, Floren Radovanović-Perić

10h45 – 11h15 COFFEE BREAK

PARALLEL SESSIONS

Room A Chairs: Joan Josep Suñol and Manuel João Monte

11h15 – 11h30 O.E1 **HNT based geopolymers incorporating wax microparticles as sustainable building materials with coating applications**
Martina M. Calvino, Giuseppe Cavallaro, Lorenzo Lisuzzo, Giuseppe Lazzara, Stefana Milioto

11h30 – 11h45 O.E2 **Characterization of yarns from a Flemish tapestry of the XVIth century and a new Keratin/HNT protocol for the conservation of artwork**
Maria Rita Caruso, Giulia D'Agostino, Lorenzo Lisuzzo, Giuseppe Cavallaro, Stefana Milioto, Giuseppe Lazzara

11h45 – 12h00 O.E3 **Kinetic study of the curing process of Perovskite-photocurable polymer based nanocomposite for scintillators**
Amal C. Chekkallur, Mario Calora, Antonella Giuri, Aurora Rizzo, Anna Paola Caricato, Alfonszo Maffezoli, Carola E. Corcione

12h00 – 12h15 O.E4 **Hybrid organic-inorganic systems via the sol-gel route: Thermal, spectroscopic, and biological properties**
Antonio D'Angelo, Veronica Viola, Alessandro Latini, Sergio Brutti, Severina Pacifico, Stefano Vecchio Cipriotti, Michelina Catauro

12h15 – 12h30 O.E5 **Improvement and implementation of pulse heating technique for the measurement of heat capacity of MoSe₂ nanoflakes**
Hugo Gómez Torres, Sebin Varguese, Klaas-Jan Tielrooij, Aitor Lopeandia Fernández, Javier Rodríguez Viejo

12h30 – 12h45 O.E6 **Thermodynamic study of alkylsilane and alkylsiloxane-based ionic liquids**
Rodrigo M. A. Silva, Hadrián Montes-Campos, Ana I. M. C. Lobo Ferreira, Eduards Bakis, Luís M. N. B. F. Santos

Room B Chairs: Rosaria Tiné and Cristian Rodríguez-Tinoco

11h15 – 11h30 O.C5 **On the thermodynamics of folding of an i-motif DNA structure**
Bruno Pagano

11h30 – 11h45 O.C3 **Thermal analysis as a tool to prospect novel nimesulide dual-drug solid forms**
Amanda C. de Almeida, Patrícia O. Ferreira, João Canotilho, Ricardo A. E. Castro, M. Ermelinda S. Eusébio, Flávio J. Caires

11h45 – 12h00 O.C2 **Physico-chemical studies of inclusion complex between natural products and cyclodextrins**
Federica D'Aria, Marco Biondi, Laura Mayol, Concetta Giancola

- 12h00 – 12h15 O.D3 **Thermal stability of an aromatic disulfide containing epoxy vitrimer**
D. Sanchez-Rodriguez, S. Zaidi, Y. Jahani, P. Maimi, J. Farjas, J. Costa, Alaitz Ruiz de Luzuriaga, Alaitz Rekondo
- 12h15 – 12h30 O.D4 **Thermomechanical properties of bio-based epoxy resin and daylight curable blends for 3d printing by Liquid Crystal Display (LCD)**
Claudio Tosto, Lorena Saitta, Giuliana Rizzo, Ignazio Blanco, Gianluca Cicala
- 12h30 – 12h45 O.D5 **Using thermal analysis for the development and characterization of novel reversible polymer networks for use in photovoltaic modules**
J. Mangialetto, D. Ehrhardt, K. Van Durme, B. Van Mele, N. Van den Brande

12h45 – 14h00 LUNCH

Room A Chair: Ignazio Blanco

- 14h00 – 15h00 PL4 **Thermal analysis of solid-state transformations: metallic alloys and compounds**
Joan-Josep Suñol
- 15h00 – 15h45 KL3 **Molecular recognition by nano-containers and aggregates: determining species and driving forces in solution**
Carmelo Sgarlata

15h45 – 16h15 COFFEE BREAK

PARALLEL SESSIONS

Room A Chairs: Konstantinos Chrissafis and Ana Rita Almeida

- 16h15 – 16h30 O.B6 **Kinetic parameters of the decomposition process of commonly used explosive compositions based on secondary explosives**
Piotr Prasufa, Magdalena Brzeziak, Magdalena Czerwińska, Piotr Cieślak
- 16h30 – 16h45 O.B7 **Integration of the Sestak-Berggren conversion function and perspectives on new generalized kinetic models for heterogeneous processes**
Ionel Roventă, Luis A. Perez-Maqueda, Andrei Rotaru
- 16h45 – 17h00 O.B8 **Analyzing protein gelation: Insights into thermal behavior and kinetics**
Tomasso Palermito, Ruben Mercade-Prieto, Rosa Nomen, Julià Sempere
- 17h00 – 17h15 O.B9 **Features of the general rate equation and the consequences**
Peter Šimon, Tibor Dubaj, Zuzana Cibulková
- 17h15 – 17h30 O.B10 **Investigation of crystallization kinetics in PBSu/Biochar composites through isoconversional and model fitting approaches**
Evangelia Tarani, Katerina Papadopoulou, Ondřej Mašek, Dimitrios N. Bikiaris, Konstantinos Chrissafis

Room B Chairs: Dimitrios Fessas and Ricardo Castro

- 16h15 – 16h30 O.E7 **Microstructure and high sensitive thermal analysis in Ni₅₅Fe₁₉Ga₂₆: influence of martensitic structure in the thermal avalanches**
A. Vidal-Crespo, J.M. Martín-Olalla, A.F. Manchón-Gordón, F.J. Romero-Landa, J.J. Ipus, M.C. Gallardo, J. S. Blázquez, C.F. Conde
- 16h30 – 16h45 O.G1 **Evolved gas analysis. What about quantification? Focus on the couplings between thermogravimetry and gas chromatography mass spectrometry**
Rodica Chiriac, François Toche

- 16h45 – 17h00 O.G2 **Dielectric relaxation spectroscopy study of the evolving glass transition during cure of a reversible network based on Diels-Alder cycloaddition**
Jessica Mangialetto, Bruno Van Mele, Van den Brande Niko,
Michael Wübbenhorst
- 17h00 – 17h15 O.G3 **The new concept of DSC 300 Caliris® - Ideal for phase transitions and purity**
João Carvalheira
- 17h15 – 17h30 O.G4 **An advanced heat flux DSC operated in the power compensation mode**
Laurent Zoppi
- 17h30 – 18h30 POSTERS SESSION
- 20h00 CONFERENCE DINNER

FRIDAY JULY 21

Room A Chair: Margarida Bastos

- 09h00 – 09h45 KL4 **Synthesis, structure, energetics and conformational dynamics of polyphenyl polycyclic aromatic hydrocarbons**
Robert A. Pascal, Jr., Joel T. Mague, Yonglong Xiao, Ha Thuy Thanh Nguyen,
Yuchen Du, Carlos F. R. A. C. Lima, Luís M. N. B. F. Santos
- 09h45 – 10h30 KL5 **New methods for an old problem: fast-scanning nanocalorimetry for a microscopic description of glass transformation**
C. Rodríguez-Tinoco, A. Vila-Costa, M. Gonzalez-Silveira, J. Rodriguez-Viejo

10h30 – 11h00 COFFEE BREAK

PARALLEL SESSIONS

Room A Chairs: Julià Sempere and Bruno Pagano

- 11h00 – 11h15 O.A5 **Simulation of crystalline morphology from a simple calorimetric crystallization curve under isothermal or non-isothermal conditions**
Lilla Bubenkó, János Molnár, Aliz Lelik, Örs Sepsi, Alfréd Menyhárd
- 11h15 – 11h30 O.A3 **Thermochemistry and reactivity of aminothiadiazoles**
Ana C. M. O. Lima, Ana L. R. Silva, Maria D. M. C. Ribeiro da Silva
- 11h30 – 11h45 O.A9 **Measurement of sublimation enthalpies of organic compounds using isothermal thermogravimetry**
Marco Antonio Treviño Kauffmann, Daniel Esparza Rivera, Aarón Rojas Aguilar
- 11h45 – 12h00 O.A11 **Relationship between phase behavior and thermal history in ionic liquid [C₄mim][PF₆]**
K. Watanabe, H. Seo, A. Goto(Kojima), N. Takuma, Y. Yamada, Y. Sanada,
Y. Katsumoto
- 12h00 – 12h15 O.A6 **Phase behaviour of binary mixtures of imidazolium ionic liquids: anion and alkyl chain effects**
Carlos F. P. Miranda, Rodrigo M. A. Silva, Ana I. M. C. Lobo Ferreira,
Luís M. N. B. F. Santos

Room B Chairs: Peter Šimon and Agostinha Matos

- 11h00 – 11h15 O.F1 **Thermophysical analysis of phenanthroline derivatives: A multitechnique approach**
José M. Silva Ferraz, Lorenza Romagnoli, Bruno Brunetti, Andrea Ciccioli, Stefano Vecchio Cipriotti, Vera L.S. Freitas, Maria D.M.C. Ribeiro da Silva
- 11h15 – 11h30 O.F2 **On the use of TGA for the study of degradation of thermal energy storage materials: analysis of the influence of evaporation and mass sample size**
Eukene García-Ocina, Gonzalo Diarce
- 11h30 – 11h45 O.F3 **Study of environmental mobility-related properties of three chlorinated pesticides**
Bruno D.A. Pinheiro, Ana R.R.P. Almeida, Manuel J.S. Monte
- 11h45 – 12h00 O.F4 **Thermal decomposition of formamidineum tin triiodide perovskite investigated by thermal analysis and effusion techniques**
Lorenza Romagnoli, Bruno Brunetti, Andrea Ciccioli, Martina Pesci, Stefano Vecchio Cipriotti, Alessandro Latini
- 12h00 – 12h15 O.F5 **Influence of nanoconfinement on phase transitions of ionic liquids for smart energy storage devices**
A. Santiago, P. Vallet, J. M. Antelo, L. A. Adrio, P. Barreiro, M. Villanueva, L.M. Varela, J.J. Parajó, J. Salgado

Room A Chair: Maria Ribeiro da Silva

- 12h15 – 13h15 PL5 **Thermodynamic and transport properties of ionic liquids**
Luís M. N. B. F. Santos

13h15 CLOSING CEREMONY / FAREWELL PORT WINE

LIST OF COMMUNICATIONS

PLENARY LECTURES

- PL1 Mechanisms and physico-geometrical modeling for kinetic description of solid-gas reactions**
Loïc Favergeon
- PL2 POSS, a very thermally stable nanoparticle: state of the art and future developments**
Ignazio Blanco
- PL3 Calorimetry: a powerful methodology for studying the stability of G-quadruplexes and their interaction with anticancer drugs**
Concetta Giancola
- PL4 Thermal analysis of solid-state transformations: metallic alloys and compounds**
Joan-Josep Suñol
- PL5 Thermodynamic and transport properties of ionic liquids**
Luís M. N. B. F. Santos

KEY LECTURES

- KL1 Solid-state of active pharmaceutical ingredients: The role of thermal analysis**
Ricardo Castro
- KL2 Implementation of spark discharge methodology into fast scanning calorimetry for the case of nanoscale homogeneous alloy materials**
Vilko Mandić, Floren Radovanović-Perić
- KL3 Molecular recognition by nano-containers and aggregates: determining species and driving forces in solution**
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- KL4 Synthesis, structure, energetics and conformational dynamics of polyphenyl polycyclic aromatic hydrocarbons**
Robert A. Pascal, Jr., Joel T. Mague, Yonglong Xiao, Ha Thuy Thanh Nguyen, Yuchen Du, Carlos F. R. A. C. Lima, Luís M. N. B. F. Santos
- KL5 New methods for an old problem: fast-scanning nanocalorimetry for a microscopic description of glass transformation**
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ORAL COMMUNICATIONS

- O.A1 A physical-chemical study on oil-protein mixtures used as paint binders**
Giulia Caroti, Alessia Cipolli, Silvia Pizzimenti, Riccardo Ducoli, Ophélie Ranquet, Norbert Willenbacher, Patrick Dietemann, Luca Bernazzani, Celia Duce, Ilaria Bonaduce
- O.A2 Measurement of sublimation and vaporization enthalpies of two aza crown ethers and two cryptands by isothermal thermogravimetry methodology**
Daniel Esparza, Aaron Rojas
- O.A3 Thermochemistry and reactivity of aminothiadiazoles**
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- O.A4 Quantification of π -electron correlation in polyaromatic hydrocarbons**
Carlos F. R. A. C. Lima, Nuno A. S. Dias, Marco A. L. Lima, Ana L. M. Oliveira, Maria L. Nogueira, André Melo, Luís M. N. B. F. Santos
- O.A5 Simulation of crystalline morphology from a simple calorimetric crystallization curve under isothermal or non-isothermal conditions**
Lilla Bubenkó, János Molnár, Aliz Lelik, Örs Sepsi, Alfréd Menyhárd
- O.A6 Phase behaviour of binary mixtures of imidazolium ionic liquids: anion and alkyl chain effects**
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- O.A11 Relationship between phase behavior and thermal history in ionic liquid [C₄mim][PF₆]**
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- O.B1 Thermal degradation kinetics of virgin and recycled polymers and polymer blends using the random chain-scission model**
Dimitris S. Achilias, Maria Paraskevi Belioka, Mohammad Nahid Siddiqui, Halim Hamid Redhwi
- O.B2 Study of UO₂ oxidation at high temperature under an Ar–O₂ atmosphere**
Priscilla Berenguer-Besnard, Laetitia Vieille, Loïc Favergeon, Loïc Marchetti, Philippe Martin

- O.B3 Kinetic analysis of the thermal decomposition of BaCO₃ in YBCO precursor films**
Sihem Zaidi, Anna Planella, Genís Riera-Agüera, Daniel Sánchez-Rodríguez, Lavinia Saltarelli, Jordi Farijas, Pere Roura-Grabulosa, X. Obradors, T. Puig
- O.B4 Crystallization kinetics of polyethylene: An application of the NPK method**
Frida Monzón, M. Dolores Rovira, Julià Sempere, Rosa Nomen
- O.B5 The use of TGA to study the degradation of polymers**
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Eukene García-Ocina, Gonzalo Diarce
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- O.F4 Thermal decomposition of formamidinium tin triiodide perovskite investigated by thermal analysis and effusion techniques**
Lorenza Romagnoli, Bruno Brunetti, Andrea Ciccioli, Martina Pesci, Stefano Vecchio Cipriotti, Alessandro Latini
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