

XLII National Conference on Calorimetry Thermal Analysis and Applied Thermodynamics

Conference Program



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Associazione Italiana di Calorimetria
e Analisi Termica



GRUPPO INTERDIVISIONALE
CALORIMETRIA E ANALISI TERMICA
Società Chimica Italiana

Udine, January 27-28 2021

Wednesday 27

9:00			Opening Ceremony
9:25	Award session Chairperson M. R. Tiné		AICAT-TA award lecture Prof. Giuseppe Arena , University of Catania Calorimetry: a priceless tool for characterizing intermolecular interactions and binding equilibria in solution. Retrospective and perspectives.
10:15	Session 1 Chairperson A. Schiraldi	Cultural Heritage “ G. Della Gatta ”	OC1 Elena Badea - INCDTP-ICPI Bucharest The power behind micro-calorimetry – About leather making and its preservation over the millennia
10:30			IL1 Lorenzo Appolonia Centro Conservazione Restauro, LaboS, Venaria Reale, Torino Conservation: heating to know and understand
11:00			coffe break
11:30	Session 2 Chairperson I. Blanco	Polymers Biomaterials	IL2 Nadia Lotti University of Bologna Thermal analysis applied to polymers: a powerful tool in combination with other techniques to extrapolate chemical structure-property correlations
12:00			OC2 Antonella Esposito University of Rouen Normandy Determination of the equilibrium enthalpy of melting of two-phase semi-crystalline polymers by fast scanning calorimetry
12:15			OC3 Elena Pulidori University of Pisa Eco-friendly method for keratin extraction from poultry feathers and manufacturing of keratin-based bioplastic in one-pot process
12:30			TC1 Dario Bozzo Alfatest See what is really happening within your furnaces.
12:40			Lunch break

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14:30	Session 3 Chairperson G. Lazzara	Polymers Biomaterials	IL3 Celia Duce University of Pisa Focus on calorimetry and thermal analysis to study oil paint curing
15:00			OC4 Chiara Domenica Di Mauro University Côte d'Azur - AICAT participation grant – The influence of the initiator as parameter to improve the thermo-mechanical properties and recyclability of thermosets based on epoxidized vegetable oils
15:15			OC5 Marialuigia Raimondo University of Salerno Thermal analysis and electrical performance by Tunneling Atomic Force Microscopy of carbon nanofiber-based nanocomposites
15:30			OC6 Ana Vila-Costa Autonomous University of Barcelona Analyzing the bulk glass transition in Ultrastable glasses with fast-scanning nanocalorimetry
15:45			TC2 Marco Coletti TA Instruments Study of Nylon 66 Degradation by Hyphenated TGA-MS and TGA-FTIR-GC/MS Techniques
15:55			coffe break
16:30	Session 4 Chairperson S. Porcedda	Solution thermodynamics liquids, mixtures	OC7 Martina Sanadar University of Udine - AICAT participation grant - Calorimetric and fluorimetric interaction studies of Europium(III) complexes with Bovine Serum Albumin
16:45			OC8 Francesca Saitta University of Milano - AICAT participation grant - Peptide-lipid membrane interaction: influence of free fatty acids-deriving alterations in host membrane's thermodynamic stability
17:00			OC9 Rossella Migliore University of Catania - AICAT participation grant - Interaction of calixarene-based micellar aggregates with model antibiotics in neutral aqueous solution: a calorimetric investigation
17:15			OC10 Federica D'Aria University of Napoli Federico II Thermodynamics of complex formation between hydroxypropyl- β -cyclodextrin and quercetin in different solvents

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17:30 Poster Session Chairperson C. Sgarlata	Virtual Poster Session Flash poster presentations
18:45	AICAT / GICAT assembly

Thursday 28

9:00	Award session Chairperson D. Fessas		A. Lucci Award Lecture Maria Paciulli University of Parma Differential scanning calorimetry of encapsulated food ingredients
9:45	Session 5 Chairperson A. M. Cardinale	Instruments and methods	OC11 Ornella Kongi Mosibo University of Bolzano Kinetic modeling of the inhibition of lipid autoxidation reaction by isothermal calorimetry
10:00			OC12 Stefano Veronesi NEST CNR Nano Pisa Bridging heat exchange and surface physics investigations on samples at the nano-scale
10:15			TC3 Enea Chiarentin Netzsch Geratebau GmbH AI-Artificial Intelligence for your Thermal Analysis Software
10:25			coffe break
11:00	Session 6 Chairperson C. Giancola	Life sciences, biological macromolecules	Plenary Lecture Jurij Lah University of Ljubljana How thermodynamics describes DNA stability and regulatory phase space?
11:45			OC13 Bruno Pagano University of Napoli Federico II Thermodynamics of non-canonical DNA structure formation
12:00			OC14 Chiara Pelosi University of Pisa - AICAT participation grant- Interactions among protein and polymer chains in protein-polymer conjugates: the case of PPE-ylated myoglobin
12:15			OC15 Rosario Oliva TU Dortmund University Pressure modulation of enzymatic reactions in aqueous two-phase system
12:30			OC16 Giuseppina Gullifa University of Rome Sapienza Thermogravimetry coupled with Chemometrics as an innovative screening test for the first level diagnosis of hereditary erythrocyte membrane defects
12:45			Lunch Break

14:30	Session 7 Chairperson S. Vecchio Cipriotti	Materials, Kinetics, Catalysis	IL4 Matko Erceg University of Split The role of researchers in kinetical calculations
15:00			OC17 Claudio Tosto University of Catania - AICAT participation grant - Effect of Porosity on the Thermal Conductivity of 3D Printed Parts by Fused Filament Fabrication (FFF)
15:15			OC18 Joan-Josep Suñol University of Girona Soft magnetic alloys and composites: thermal analysis
15:30			OC19 Quentin Touloumet CNRS/IRCELYON Thermochemical energy storage in composite materials: MOFs impregnated by hygroscopic salt
15:45			OC20 Imre Miklós Szilágyi Budapest University of Technology and Economics Thermal properties of photocatalytic and gas sensing carbon nanostructures and nanocomposites
16:00			TC4 Michael Gerlach - Linseis / MP Strumenti Chip-based Calorimeter for fast heating and cooling rates inclusive related investigations
16:10			Closing Ceremony

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