

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

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

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

**Thursday 28**

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

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

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