

International Symposium on the Thermodynamics of Metal Complexes

15-18 June 2026
Udine, ITALY

Palazzo Garzolini Di Toppo Wassermann

SCIENTIFIC PROGRAM



Monday, June 15th

14:30 – 16:30 Registration

16:30 – 17:00 Opening Ceremony

Alessandro Gasparetto, Head of the Polytechnic Department of Engineering and Architecture

Angelo Montanari, Rector of the University of Udine

Alberto Felice De Toni, Mayor of Udine and former rector of the University of Udine

Tarita Biver, President of Group ISMEC

Andrea Melchior, Chair of ISMEC2026

Chairperson: **Vieri Fusi**

17:00 – 18:00 PL01: Porphyrinoid–Based Based Chemical Sensors and Sensor Arrays

Roberto Paolesse

Department of Chemical Sciences and Technology, University of Rome Tor Vergata, Italy

18:00 – 18:30 KN01: The contribution of thermodynamics and theoretical calculations to interpreting the spectroscopic properties of trivalent lanthanide coordination compounds

Fabio Piccinelli

Luminescent Materials Laboratory, Department of Biotechnology, University of Verona, Italy

19:00–20:30 Welcome Party

Tuesday, June 16th

Chairperson: **Antonio Bianchi**

9:00 – 10:00 **PL02:** Self-Assembled Metallocages with Heterocyclic Polyamines, a Cyclic Story

Enrique García-España

Departments of Inorganic and Organic Chemistry, ICMOL, University of Valencia, Spain

10:00 – 10:15 **OC01:** Polyamino-polyphosphonates: Determination of stability constants in the metal ion – NTMP / EDTMP / DTPMP systems

Petr Hermann

Department of Inorganic Chemistry, Charles University, Czech Republic

10:15 – 10:30 **OC02:** Selective Recognition and Quantification of Hard-Soft Acid-Base Properties of Anions from the Primary and Secondary Sphere Interactions with Cationic ZnII and CuII Tripodal Amine-Benzene CF₃ Ligands

Anastasios D. Keramidas

Department of Chemistry, University of Cyprus, Cyprus

10:30 – 10:45 **OC03:** N/O Macrocycles for Pd(II) Recovery and Catalysis: A Hard-Soft Balance of Selectivity and Robustness

Matteo Savastano

Department for the Promotion of Human Science and Quality of Life University San Raffaele Roma, Italy

10:45– 11:15 **Coffee Break**

Chairpersons: **Michel Meyer & Sofia Gama**

11:15– 11:45 **KN02:** Zinc detection using responsive MRI contrast agents: from rational design to in vivo applications

Célia Bonnet

Centre de Biophysique Moléculaire, CNRS Université d'Orléans, France

11:45– 12:00 **OC04:** Coordination of Sc(III) by pyridinecarboxylates: implications for picolinate–based chelator design

Vladimir Sladkov

Pôle Santé, IJCLab/CNRS/Université Paris–Saclay, France

12:00– 12:15 **OC05:** Thermodynamic Insights into Pb²⁺ Chelators for ^{212/203}Pb complexation with acyclic ligands

Jennifer Storchi

Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia, Italy

12:15– 12:30 **OC06:** From Speciation to Thermodynamic Stability: A Rigid HBED Analogue Controls Isomerization in Gallium-68 Complexes

Erika Ferrari

Chemical and Geological Sciences, University of Modena and Reggio Emilia, Italy

12:30– 12:45 **OC07:** Impact of carboxylate substitution by pyridine/imidazole in pyridine-based complexes: stability, dynamics, and relaxation properties of Ln³⁺ complexes

Martina Sanadar

Centre de Biophysique Moléculaire, CNRS, France

12:45– 13:00 **OC08:** Chiral NIR-emitting Yb(III) complex: a promising water soluble optical probe

Silvia Ruggieri

Luminescent Materials Laboratory, Department of Biotechnology, University of Verona, Italy

13:00– 15:00 **Lunch**

Chairpersons: **Montserrat Lopez Mesas & Silvia Berto**

15:00– 15:30 **KN03:** Adsorption: Thinking beyond pollution remediation

José L. Barriada

Department of Chemistry, University of A Coruña, Spain

15:30– 15:45 **OC09:** Unravelling shifts in DOM ion-binding dynamics across the land-ocean interface

María Martínez Cabanas

Department of Chemistry, University of A Coruña, Spain

15:45– 16:00 **OC10:** Bergamot Pomace as a Biosorbent for Rare Earths: Outcomes of the Wastezilla Project

Gabriele Lando

Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università degli Studi di Messina, Italy

16:00– 16:15 **OC11:** Horse hoof waste cleaning and heavy metals removal optimization merging chemometrics and speciation studies towards upcycling

Lisa Rita Magnaghi

Dipartimento di Chimica, Università degli Studi di Pavia, Italy

16:15– 16:30 **OC12:** What Binds What? Metal–Ligand Interactions of MGDA and GLDA with Environmentally Relevant Cations: A Comprehensive Investigation

Clemente Bretti

Dipartimento di Scienze Chimiche, Biologiche, Farmaceutiche ed Ambientali, Università degli Studi di Messina, Italy

16:30– 17:00 **Coffee Break**

Chairperson: **Beata Godlewska-Żyłkiewicz**

17:00– 17:15 **OC13:** Electrochemical Enzymatic Biosensing of Phenols in Deep Eutectic Solvents

Rossella Svigelj

Department of Agrifood, Environmental and Animal Sciences, University of Udine, Italy

17:15– 17:30 **OC14:** Chemical speciation of inositol phosphates in grape seeds applied to wine waste valorization

Manuel Valiente

Department of Chemistry-GTS center, Universitat Autònoma de Barcelona, Spain

17:30– 18:00 KN04: Targeted and suspect LC-HRMS strategies for screening multiclass micropollutants and their transformation products in environmental and food samples

Dimitra A. Lambropoulou

Department of Chemistry, Environmental Pollution Control Laboratory, Aristotle University of Thessaloniki and Centre for Interdisciplinary Research and Innovation (CIRI-AUTH), Greece

18:00– 19:30 Poster Session

Wednesday, June 17th

Chairperson: **Demetrio Milea**

9:00 – 10:00 **PL03:** Design and Thermodynamic Assessment of Functionalized Ionic Liquids for Selective Rare Earth Element Recovery

Slobodan Gadžurić

Faculty of Science, University of Novi Sad, Serbia

10:00 – 10:15 **OC15:** Unraveling Metal Ion Solvation in Ionic Liquids through a Combined X-ray Absorption Spectroscopy and Molecular Modelling Approach

Matteo Busato

Department of Chemistry, Sapienza Università di Roma, Italy

10:15 – 10:30 **OC16:** Functionalized ionic liquids containing ferrocene moiety

Pavel Kozáček

Institute of Chemistry and Technology of Macromolecular Materials, University of Pardubice, Czech Republic

10:30 – 10:45 **OC17:** Phase equilibria and thermodynamic properties of the nickel(II) methanesulfonate–methanesulfonic acid–water system

Femke Derison

Department of Chemistry, KU Leuven, Belgium

10:45– 11:15 **Coffee Break**

Chairpersons: **Maria Rosa Beccia & Jorge Gonzalez**

11:15– 11:30 **OC18:** Dysprosium and Samarium Recovery via Natural Zeolite: A Study of Process Dynamics and Equilibrium Conditions

José Alejandro Ricardo García

Polytechnic Department of Engineering and Architecture, Università di Udine, Italy

11:30– 11:45 **OC19:** Dual-purpose Ni-sensitive bioplastic film as jewelry smart coating for allergen detection and skin exposure prevention

Raffaella Biesuz

Dipartimento di Chimica, Università di Pavia, Italy

11:45– 12:00 **OC20:** Uranyl Chelation by Pincer-Like Dihydroxamic Acids

Michel Meyer

Institut de Chimie Moléculaire, Université Bourgogne Europe, France

12:00– 12:15 **OC21:** Design and Modulation of Selectivity toward Vanadium(V) and Uranium(VI) Ions: Coordination Properties, Affinity and Applications of Hydroxylamino-Triazine Siderophores

Angelos Amoiridis

Department of Chemistry, University Of Cyprus, Cyprus

12:15– 12:30 **OC22:** Silver(I), copper(II) and zinc(II) complexes: their solution behavior, solid state study and bioevaluation

Gabriela Kuzderová

Department of Inorganic Chemistry, Pavol Jozef Šafárik University in Košice, Slovakia

12:30–13:00 **KN05:** Metal–ligand coordination and supramolecular assemblies in luminescent Au(I) and Pt(II) complexes

Laura Rodríguez

Inorganic Chemistry Section, Faculty of Chemistry, Universitat de Barcelona, Spain

13:00– 15:00 **Lunch**

Chairperson: **Raffaella Biesuz**

15:00– 15:15 **OC23:** Metallochlorin Photosensitizers for Enhanced Photodynamic Therapy: A Computational–Experimental Approach

Juliana Machado

Department of Chemistry and Biochemistry, University of Porto, Portugal

15:15 – 15:30 **OC24:** Tailored oxaliplatin(IV) monohaloacetate complexes with redox-activation and multimodal anticancer activity

Francesca Binacchi

Department of Chemistry and Industrial Chemistry, Università di Pisa, Italy

15:30 – 15:45 **OC25:** The Acid-Base and Complex-Forming Properties of Cytokinins

Přemysl Lubal

Department of Chemistry, Masaryk University, Czech Republic

15:45 – 16:00 **OC26:** Effects of the structural modification of ambidentate hydroxy- pyridinonates on their metal ion binding

Péter Buglyó

Department of Inorganic & Analytical Chemistry, University of Debrecen, Hungary

16:00– 16:30 **Coffee Break**

16:30–18:00 **ISMEC Group Meeting**

18:00–19:30 **City Tour of Udine**

Thursday, June 18th

Chairperson: **Petr Hermann**

9:00 – 10:00 **PL04:** Supramolecular recognition of DNA and RNA junction structures for anti-viral and anti-cancer therapy

Michael J. Hannon

School of Chemistry, University of Birmingham, UK

10:00 – 10:15 **OC27:** Biological properties of first row transition metal complexes of Schiff base ligands

Giampaolo Barone

Dipartimento di Scienze e Tecnologie Biologiche Chimiche e Farmaceutiche, Università di Palermo, Italy

10:15 – 10:30 **OC28:** Targeting G-quadruplexes using Supramolecular Strategies

Jorge González García

Department of Inorganic Chemistry, University of Valencia, Spain

10:30 – 10:45 **OC29:** Complex formation and metal ion induced hydrolytic processes of fragments of tau and tubulin proteins

K. Várnagy

Inorganic and Analytical Chemistry, University of Debrecen, Hungary

10:45 – 11:15 **Coffee Break**

Chairpersons: **Péter Buglyó & Zuzana Vargova**

11:15 – 11:30 **OC30:** New organotin(IV) syringates as potential PPAR- γ agonists: from chemical characterization to biological activity towards colon cancer HCT116 cells

Claudia Pellerito

Dipartimento di Fisica e Chimica - Emilio Segrè, Università di Palermo, Italy

11:30 – 11:45 **OC31:** How does the -DPHVW- Motif Contribute to Metal Coordination in *Neisseria gonorrhoeae*?

Karolina Pawlik

Faculty of Chemistry, University of Wroclaw, Poland

11:45 – 12:00	<p>OC32: Investigation of transition metal complexes of tau fragments containing cysteine and one or more histidines</p> <p>Faareha Mazhar</p> <p>Department of Inorganic and Analytical Chemistry, University of Debrecen, Hungary</p>
12:00 – 12:15	<p>OC33: Metal ion binding affinity of native and phosphorylated human Tau(28–34) protein fragment and the role of phosphorylation in the hydrolytic process</p> <p>Gomaa E. Amer</p> <p>Department of Inorganic and Analytical Chemistry, University of Debrecen, Hungary</p>
12:15 – 12:30	<p>OC34: Small Change, Big Impact: Dual Amino Acid Swap Influence Metal Binding and Antimicrobial Activity of a MUC7–Derived Peptide</p> <p>Klaudia Szarszoń</p> <p>Faculty of Chemistry, University of Wrocław, Poland</p>
12:30 – 14:30	<p>Lunch</p> <p>Introduction: Maurizio Remelli</p>
14:30–15:00	<p>PR1: Harnessing solution thermodynamics to develop functional drug delivery platforms</p> <p>Giuseppina D. G. Santonoceta</p> <p>(ISMeC “F.Pulidori” award 2026)</p> <p>Department of Chemical Sciences, University of Catania, Italy</p>
15:00–15:30	<p>Introduction: Concetta De Stefano and Demetrio Milea</p> <p>PR2: Unveiling chemical speciation of vanadium(IV/V)/8–hydroxyquinoline–2–carboxylic acid system in aqueous solution</p> <p>Matteo Marafante</p> <p>(ISMeC “S.Sammartano” award 2026)</p> <p>Department of Chemistry, University of Torino, Italy</p>
15:30–15:40	Best Poster and best Oral Communication awards
15:40–16:00	Presentation of ISMEC2027 and Closing Ceremony
19:45 –	Gala dinner at the “Casa della Contadinanza”



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