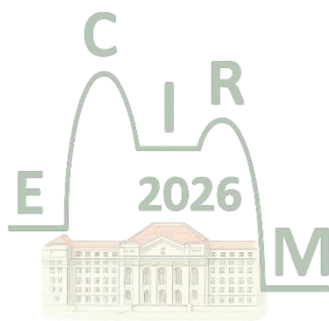


7th European Colloquium on Inorganic Reaction Mechanism



University of Debrecen

6th – 9th September 2026



Scientific Program

6 th of September (Sunday)		7 th of September (Monday)	
		9:00 - 9:55	PL2 Alicia Casitas
		9:55 - 10:35	KN1 Michael L. Neidig
		10:35 - 10:55	O1 Maria Oszajca
		10:55 - 11:15	O2 Michael J. Zdilla
		11:15 - 11:45	Coffee break
		11:45 - 12:05	O3 Lukasz Orzel
		12:05 -12:25	O4 József Kalmár
		12:25 -12:45	O5 Rinaldo Poli
		12:45 -13:05	O6 Ádám Horváth
		13:05 - 14:30	Lunch
15:00 - 17:15	Registration	14:30 - 15:10	KN2 Tomasz Borowski
		15:10 - 15:50	IL János Elek
17:15 - 17:30	Opening Ceremony	16:00 -19:00	Poster session
17:30 -18:25	PL1 Sabine Van Doorslaer		
18:30 - 20:30	Welcome reception		

8 th of September (Tuesday)		9 th of September (Wednesday)	
9:00 - 9:55	PL3 Miquel Costas	10:00 - 10:40	KN5 Frédéric Banse
9:55 - 10:35	KN3 Éva Jakab Tóth	10:40 - 11:00	O15 Erik Kertész
10:35 - 10:55	O7 Daniela Lalli	11:00 - 11:20	O16 Debabrata Chatterjee
10:55 - 11:15	O8 Nicol Guidolin	11:20 - 11:40	O17 Ot Raich Panisello
11:15 - 11:45	Coffee break	11:40 - 12:00	Closing Ceremony
11:45 - 12:05	O9 Zoltán Garda	12:00 -	Lunch
12:05 - 12:25	O10 Marco Ricci		
12:25 - 12:45	O11 Annette Rompel		
12:45 - 13:05	O12 Csilla Fekete		
13:05 - 14:30	Lunch		
14:30 - 15:10	KN4 Christian Limberg		
15:10 - 15:30	O13 Luca Antonini		
15:30 - 15:50	O14 Jos Briggs-Pritchard		
18:00 - 21:00	Banquett		

Program

6th September 2026

Sunday

15:00 - 17:15 **Registration**

17:15 - 17:30 **Opening Ceremony**

17:30 - 18:25 **PL1 Sabine Van Doorslaer** – *University of Antwerp*

Multifrequency pulsed electron paramagnetic resonance – a versatile spectroscopic tool for (bio)inorganic chemistry

18:30 - 20:30 **Welcome reception**

7th September 2026

Monday

09:00 - 09:55 **PL2 Alicia Casitas** – *Philipps-Universität Marburg*

Exploring the chemical landscape of high valent organoiron complexes

09:55 - 10:35 **KN1 Michael L. Neidig** – *University of Oxford*

Down the rabbit hole of iron catalysis for organic synthesis

10:35 - 10:55 **O1 Maria Oszajca** – *Jagiellonian University*

Mechanisms of ferric heme-mediated S-nitrosothiols formation: the role of the iron coordination environment

10:55 - 11:15 **O2 Michael J. Zdilla** – *Temple University*

Molecular Mechanistic Considerations for Ion Hopping in Solid State Soft-Solid Molecular Crystal Electrolytes

11:15 - 11:45 **Coffee break**

11:45 - 12:05 **O3 Lukasz Orzel** – *Jagiellonian University*

Interplay between homocysteine, nitric oxide and cobalt porphyrinoids in cobalamin-related processes

12:05 - 12:25 **O4 József Kalmár** – *University of Debrecen*

Mechanistic explanation for differences between catalytic activities of dissolved and aerogel immobilized macrocyclic Cu(II) complexes

12:25 - 12:45 **O5 Rinaldo Poli** – *Université de Toulouse*

Mechanistic investigations of the metal-catalyzed acrylate radical termination

12:45 - 13:05 **O6 Ádám Horváth** – *Budapest University of Technology and Economics*

Nucleophilic substitution at elemental iodine: uncovering the reaction mechanism

13:05 - 14:30 **Lunch**

14:30 - 15:10 **KN2 Tomasz Borowski** – *Jerzy Haber Institute of Catalysis and Surface Chemistry, Polish Academy of Sciences*
Reaction mechanisms of selected mononuclear non-heme iron enzymes experiments and simulations

15:10 - 15:50 **IL János Elek** – *Science Port Ltd.*
Spectroscopic investigation of species-number estimation and equilibrium oligomerization: PCR-based indirect rank estimation from a UV spectral series of methylene blue solutions

16:00 - 19:00 **Poster session**

8th September 2026 Tuesday

09:00 - 09:55 **PL3 Miquel Costas** – *Universitat de Girona*
Mechanistic versatility of biologically inspired catalysts in aliphatic C-H oxidation reactions

09:55 - 10:35 **KN3 Éva Jakab Tóth** – *Centre of Molecular Biophysics, CNRS*
Manganese complexes for MRI applications

10:35 - 10:55 **O7 Daniela Lalli** – *University of Eastern Piedmont*
Multinuclear and multi-frequency NMR investigations of fluoride binding to metal complexes

10:55 - 11:15 **O8 Nicol Guidolin** – *Bracco Imaging SpA*

Digadoglucitol: a new high relaxivity MRI contrast agent based on the dimerization of [Gd(HP-DO3A)] and activated intramolecular catalysis of the prototropic exchange

11:15 - 11:45 **Coffee break**

11:45 - 12:05 **O9 Zoltán Garda** – *University of Debreceen*

Fluorine containing iron complex as a redox-switchable ¹⁹F MRI probe

12:05 - 12:25 **O10 Marco Ricci** – *University of Eastern Piedmont*

Field-dependent ¹H relaxometry as a general probe of hydration dynamics and metal–water exchange in paramagnetic Ln³⁺ complexes

12:25 - 12:45 **O11 Annette Rempel** – *Universität Wien*

Polyoxometalate speciation in solution: from mechanistic atlases to antiviral and transport processes

12:45 - 13:05 **O12 Csilla Fekete** – *Budapest University of Technology and Economics*

Substitution reactions of the weak Lewis pair H₃P–AlCl₃: mechanistic insights

13:05 - 14:30 **Lunch**

14:30 - 15:10 **KN4 Christian Limberg** – *Humboldt-Universität zu Berlin*

Routes to bioinspired nickel-carbonite entities and its reactivity towards oxalate

15:10 - 15:30 **O13 Luca Antonini** – *Université de Toulouse*

Dinitrogen activation and functionalization mediated by metal complexes

15:30 - 15:50 **O14 Jos Briggs-Pritchard** – *University of Oxford, Oxford*

Lifting the lid on iron-catalysed reductive alkyl-alkyl cross-couplings

18:00 - 21:00 **Banquett**

9th September 2026 Wednesday

10:00 - 10:40 **KN5 Frédéric Banse** – *Université Paris-Saclay*

Non heme iron complexes for the activation of small molecules

10:40 - 11:00 **O15 Erik Kertész** – *Budapest University of Technology and Economics*

Catalytic application of P,C,P-Ge and Sn chelate complexes in CO₂ activation

11:00 - 11:20 **O16 Debabrata Chatterjee** – *University of Burdwan*

Electron transfer reactions of [Ru^{III}(pic)₃] with sulfite

11:20 - 11:40 **O17 Ot Raich Panisello** – *Universitat de Barcelona*

Metal coordination as a tool for controlling azo thermal isomerization pathways

11:40 - 12:00 **Closing Ceremony**

12:00 - **Lunch**

Poster presentations

P1 Alexis Cabahug Achacoso

Thermodynamic and Kinetic Evaluation of NOTA-NP, a possible Mn(II)-based liver-specific probe

P2 Dóra Bonczidai-Kelemen

SOD and catalase-like activities of a NiSOD related metalloprotein

P3 Balázs Bukta

Resorcinol-formaldehyde-gelatin aerogel for the selective removal of aqueous Au(III) ions

P4 Szilvia Bunda

The chemical characterization of paramagnetic metal complexes containing malonate pendants

P5 Csilla Enikő Czégéni

Catalytic properties of symmetric and asymmetric Rh(I)-N-heterocyclic carbene complexes in nitrile hydration

P6 Alexandra Czuna

Experimental design and optimization: Hydrogen storage in ammonia borane via aqueous media

P7 Dániel Pércsi

Development of aerogel-based sorbents for the selective recovery of noble metal ions and investigation of their binding mechanisms

P8 Róbert Diószegi

Copper(II) complexes of pyridine-based macrocycles with antioxidant activity

P9 Montserrat Ferrer

Coordination of azoderivatives to the $\{Pt^{II}(TMEDA)\}^{2+}$ fragment; robustness of the E $\leftrightarrow$ Z photothermal py-Ph ligand isomerisation and striking influence of the solvent in the Z $\rightarrow$ E thermal process

P10 Attila Forgács

Interaction of Aqueous Bovine Serum Albumin with Silica Aerogel Microparticles: Sorption Induced Aggregation

P11 Zoltán Horváth

Effect of fluoride ions on homogeneous catalytic CO₂ hydrogenation

P12 István Kapus

Rigid 8-Hydroxyquinoline-Functionalized Macrocyclic Chelators for Mn(II): Thermodynamic, Relaxometric, and Kinetic Studies

P13 Ferenc K. Kálmán

An old-new ligand family for complexation of Cu(II) in radiotheranostics

P14 Konrad Kieca

Unlocking Heme Reactivity: Reoxidation of NO-Ferroheme Restores Catalytic S-Nitrosothiol Formation

P15 Eszter Kiss

Vitamin loaded PVA electrospun nanofibers

P16 Manuel Martínez

Attachment of py-Ph azoderivatives to the $\{\text{Ru}^{\text{II}}\text{cis}-(\text{bpy})_2\}^{2+}$ skeleton; coexistence of the photothermal $\text{cis} \leftrightarrow \text{trans}$ skeleton and $\text{E} \leftrightarrow \text{Z}$ ligand isomerisation reversible reactions

P17 Dávid Molnár

Homogeneous Hydrogenation of $\text{CO}_2/\text{HCO}_3^-$ in Aqueous Media Using the *cis,mer*- $[\text{IrH}_2\text{Cl}(\text{mtppps-Na})_3]$ Catalyst

P18 Fruzsina Simon

Catechol oxidase activity of a dinuclear copper(II) complex

P19 Balázs Szilágyi

Structure–Property Relationships in Acyclic Lanthanide Chelators

P20 Antal Udvardy

Water-Soluble Ru(II)–PTA Catalysts for Reversible Hydrogen Storage Applications

P21 Dóra Vargáné Szalóki

Copper(II) complexes of histidine-based benzo-fused heterocyclic ligands: equilibrium and kinetic features

P22 Natalia Walas

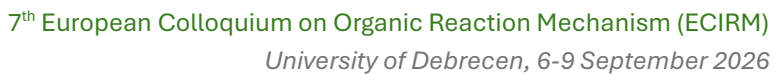
The Reactivity of Cobalt Porphyrinoids toward NO

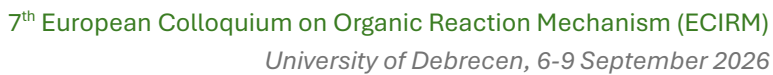
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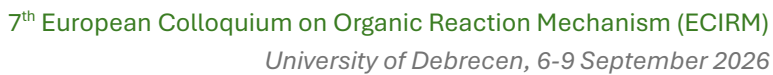


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