

SCIENTIFIC PROGRAM

MONDAY, 8 June 2026

Congress Hall

9:00 OPENING

9:15 – 11:30 Plenary Lectures A
ELECTRONIC, MOLECULAR AND CRYSTAL STRUCTURES

Congress Hall

Chairman: S. D. Zarić

9:15 – 10:00 B. B. Iversen (Denmark)
In Situ and In Operando X-ray Scattering Studies in Materials Chemistry

10:00 – 10:30 M. B. Hall (USA)
How Geometric Constraints Control the Hydride Position and Activity in [NiFe]-Hydrogenases and Their Biomimetic Complexes

10:30 – 11:00 ☕ Coffee break

11:00 – 11:30 M. Shongwe (Oman)
Unusual Spin-Crossover Behaviour within the Iron(III) Salicylaldimine System

14:00 – 16:15 Section Lectures A
ELECTRONIC, MOLECULAR AND CRYSTAL STRUCTURES

Congress Hall

Chairman: B. B. Iversen

14:00 – 14:15 I. Jelemská (Slovakia)
The CuAAC Catalytic Effect of Copper Complexes. DFT study

14:15 – 14:30 J. Moncol (Slovakia)
Quantum-Crystallographic and Topological Study of Copper(II) Salicylate(2-) Complexes

14:30 – 14:45 B. O. Owaga (South Africa)
Ru-NHC Complexes as Antimicrobial Agents

14:45 – 15:00 J. Pavlik (Slovakia)
A Novel Mechanism of cis-trans Ligand Photoisomerization at High-Spin Fe(II) Centre

15:00 – 15:30 ☕ Coffee break

Congress Hall

Chairman: M. Hall

15:30 – 15:45 P. I. da Silva Maia (Brazil)
Zirconium(IV)-Based Metallacages from Aroylbis (N,N-Alkylthiourea) Ligands: An Efficient Route for Structural Diversification

15:45 – 16:00 R. Varga (Slovakia)
To Bond or not to Bond? A Quantum Crystallo-graphic Study of Cu \cdots S and Cu \cdots Se Interactions

16:00 – 16:15 S. D. Zarić (Serbia)
Strong CH/O Interactions of Metal Complexes

TUESDAY, 9 June 2026

9:00 – 10:15 Plenary Lectures D
COMPLEXES IN HUMAN MEDICINE AND THE ENVIRONMENT

Congress Hall

Chairman: P. Baran

9:00 – 9:45 K. D. Karlin (USA)
Metalloenzyme Inspired Cu^I-O₂ Coordination Chemistry

9:45 – 10:15 T. Marzo (Italy)
Human Serum Albumin and Anticancer Metallodrugs: Friend, Foe, or Game Changer?

10:15 – 11:45 Section Lectures D
COMPLEXES IN HUMAN MEDICINE AND THE ENVIRONMENT

Congress Hall

Chairman: K. D. Karlin

10:15 – 10:30 A. Ahmedova (Bulgaria)
Diverse Anticancer Activity of Pt(IV) Complexes with Pyrene-Butyric Substituents

10:30 – 11:00 ☕ Coffee break

11:00 – 11:15 Z. Baranová (USA)
Importance of Intramolecular Hydrogen Bonding for The Molecular Geometry of Oxovanadium Complexes with Pyrazoles

11:15 – 11:30 Y. Jiao (China)
Construction of Supramolecular Probes and their Biological Intervention Functions

11:30 – 11:45 F. Jozefiková (Slovakia)
Iron Dominance and Copper Constraint in Biology: A Geochemical Legacy of Early Earth

Congress Hall

Chairman: T. Marzo

14:00 – 14:15 P. Kopel (Czech Republic)
Copper(II) Bisbenzimidazole Complexes

14:15 – 14:30 R. Křikavová (Czech Republic)
A Critical Re-Evaluation of Ta(V) Half-Sandwich Complexes: Hydrolytic Behavior and Selective Cytotoxicity

14:30 – 14:45 Y. Liu (China)
Targeting Intrinsically Disordered Proteins via Metallodrug Coordination

14:45 – 15:00 M. Piroš (Slovakia)

Effect of Ligand Azo-Functionalization on DNA Interaction in Ru(II) Polypyridyl Complexes

15:00 – 15:30  Coffee break

Congress Hall

Chairman: P. Kopel

- 15:30 – 15:45 I. Potočník (Slovakia)
Crystal Structures of Palladium Complexes with 8-Hydroxyquinolines Prepared by a Ligand Exchange
- 15:45 – 16:00 R. Šipoš (Slovakia)
Photocatalytic Degradation of Diclofenac Using Modified g-C₃N₄: A Comparative Study
- 16:00 – 16:15 M. Štekláč (Slovakia)
Copper-Flavonoid Complexes: Antioxidant Activity and Biomolecular Interactions
- 16:15 – 16:30 J. Švorec (Slovakia)
Coordination Compounds of Copper(II) with Pyridine-2,6-Dicarboxamide and Pyridine-2,6-Bisimine-Based Ligands
- 16:30 – 16:45 J. Valentová (Slovakia)
Schiff Bases Copper(II) Complexes with Hetero-cyclic Ligands: Study of their Anticancer Properties

WEDNESDAY, 10 June 2026

8:45 – 10:00 Plenary Lectures B
SOLUTION AND SOLID STATE REACTIVITY

Congress Hall


Chairman: I Gural'skyi

- 8:45 – 9:30 R. Podgajny (Poland)
Compositional Diversity, Site Selectivity, Spin-Phase Transitions, and Core-Shell Assembling of [M(CN)₈]-Bridged Coordination Clusters
- 9:30 – 10:00 B.-M. Kukovec (Croatia)
2D and 3D Heterometallic Sodium-Palladium(II) Coordination Polymers with Substituted Nicotinate Ligands

10:00 – 12:00 Section Lectures B
SOLUTION AND SOLID STATE REACTIVITY

Congress Hall

Chairman: R. Podgajny

- 10:00 – 10:15 B. Kutus (Hungary)
Conversion of Lithium Carbonate to Lithium Hydroxide with Barium Hydroxide
- 10:15 – 10:45  Coffee break
- 10:45 – 11:00 K. Choroba (Poland)
Engineering Long-Lived Triplet States in Iridium(III) Photosensitizers via Pyrenyl Imidazophenanthroline Ligands
- 11:00 – 11:15 O. Drosik (Poland)
Iridium(III) Complexes of 4-Aryl-2,6-Bis(Thiazol-2-yl)Pyridines: Synthesis and Photophysical Properties
- 11:15 – 11:30 I. N. Pantcheva (Bulgaria)
Ternary Co(II) Complexes of Monensinate A with Amino Acids
- 11:30 – 11:45 I. A. Yakushev (Russia)
Platinum Bimetallics: a Way from Crystal Structure to Functional Materials
- 11:45 – 12:00 L. Zhao (China)
Confined Coordination Capsules for Biomimetic Catalysis

13:30 – 17:00 Excursion to Manor and Medolandia DOLNÁ KRUPÁ

19:00 – 20:30 Poster Session

- 1 R. Bajcura (Slovakia)
Redox Behavior and Asymmetric Structural Changes Activated by Temperature in Hexacoordinate Cu(II) Complex
- 2 Z. Bieliková (Slovakia)
Dinuclear Ce(III)-Zn(II) and Ce(III)-Cu(II) Complexes Stabilized by μ -Phenolate Bridges: Synthesis and Characterization
- 3 M. Biskupičová (Slovakia)
Preparation of Manganese(II) Complexes with Fenamates: Characterization and Potential Bioactivity
- 4 L. Chekrain Valappil (Germany)
Bis-Guanidinium Salts for the Efficient Removal of Perrhenate (ReO₄⁻) as a Non-Radioactive Substitute for Pertechnetate (TcO₄⁻) from Media with High Chloride and Nitrate Content
- 5 L. S. Harutyunyan (Armenia)
Nitric Oxide Oxygenation Reaction at Cobalt Nitrosyl Complex
- 6 M. Szabó Dózsa (Slovakia)
New Pentacoordinate Co(II) Complex with Field-Supported Slow Magnetic Relaxation
- 7 A. A. Hovhannisyan (Armenia)
Infrared and Raman Spectroscopic Characterization of Organo-Bentonites Synthesized via Quaternary Ammonium Intercalation
- 8 L. Hudecová (Slovakia)
Protective Role of Galangin in Copper-Induced Oxidative Stress
- 9 D. Kendrová (Slovakia)
Tetranuclear [Ni₂Ln₂] Complexes (Ln = Dy, Er) with a Defect-Dicubane Core
- 10 J. Kurjan (Slovakia)
Beyond Intercalation: Viscometric Revelation of Mixed DNA Binding in Anticancer Copper(II) Coumarin Complexes
- 11 L. Lintnerová (Slovakia)
Schiff Base and Reduced Schiff Base Copper(II) Complexes Derived from Short Linear Amino Acids and their Structural, Cytotoxic and SOD-mimetic Properties
- 12 J. I. Long (Germany)

Coordination Behaviour of Phosphorylated Amino Acids toward Lanthanides

- 13 M. Matiková Maľarová (*Slovakia*)
Quinoline-Derived Vanadium(IV) Complexes as Promising Antimicrobial and Antiproliferative Agents
- 14 K. Micheľová (*Slovakia*)
Exploring Chromophore-Dependent Coordination and DNA-Binding in Copper(II) Complexes
- 15 D. A. Paixão (*Brazil*)
Synthesis of Copper(II) Metallopeptides Containing the RGD Motif and their Potential for DNA Cleavage
- 16 K. Petrželová (*Czech Republic*)
Ru(II), Os(II), Rh(III) and Ir(III) Complexes with β -Carbolines for the Study of Antitumor Activity
- 17 M. Puchoňová (*Slovakia*)
Benzoatocopper(II) Complexes – Isomers and Polymorphs
- 18 R. Rusová (*Slovakia*)
Mononuclear Copper(II) Complexes with Square Pyramidal Geometry
- 19 D. Schlettová (*Slovakia*)
Antimicrobial Activity of Novel Synthesized Metal Complexes
- 20 R. Smolko (*Slovakia*)
Crystallochemistry of Ni(II) Complexes with Ligands Based on Selected Schiff Base and 8-Hydroxyquinoline Derivates
- 21 M. Šterbinská (*Czech Republic*)
Novel Multicomponent Rh and Ir Compounds as Potential Anticancer Drugs
- 22 M. Timoracká (*Slovakia*)
The Influence of Redox-Active Copper on the Antioxidant/Prooxidant Behavior of Flavonoids
- 23 M. Valko (*Slovakia*)
EPR Spectroscopy of Iron(III) Complexes Spin-Crossover ($5/2 \leftrightarrow 1/2$) Transition with Hysteresis
- 24 L. Ye (*China*)
Origin and Periodicity of the Highest Oxidation States

THURSDAY, 11 June 2026**9:00 – 11:45 Plenary Lectures C
APPLIED INORGANIC AND COORDINATION CHEMISTRY***Congress Hall**Chairman: B.-M. Kukovec*

- 9:00 – 9:45 I. Gural'skyi (*Ukraine*)
Hybrid Perovskites Based on Aziridinium Cation
- 9:45 – 10:15 P. Baran (*USA*)
High-Temperature Antiferromagnetism in Copper(II) Complexes
- 10:15 – 10:45 ☕ *Coffee break*
- 10:45 – 11:15 C. Duan (*China*)
Enzyme Grafting with Metal-Organic Hosts for Photocatalytic Conversion
- 11:15 – 11:45 F. Mohr (*Germany*)
Metal Compounds with Anionic Sulfur Ligands: From Coordination Polymers to Defined Tetranuclear and Hexanuclear Clusters

**13:30 – 14:15 Section Lectures C
APPLIED INORGANIC AND COORDINATION CHEMISTRY***Congress Hall**Chairman: F. Mohr*


- 13:30 – 13:45 M. Malček Šimunková (*Slovakia*)
Tuning TiO₂ Photocatalysis via Salicylic Acid-Based ICT Complexes: Functional Group Effects on Redox Pathways
- 13:45 – 14:00 M. Malček (*Slovakia*)
DFT Study of Hydrogen Binding on Graphene-Based Nanomaterials Doped and Decorated with Zr Atoms
- 14:00 – 14:15 B. Nowicka (*Poland*)
Multistable CN-Bridged Coordination Chain in Composite Mats

14:15 – 14:30 Special Wiley Lecture*Congress Hall*

- 14:15 – 14:30 A. Straube (*Germany*)
Getting Published - Editorial Insights

14:30 – 17:50 Young Scientists Section*Congress Hall**Chairman: I. N. Pantcheva*

- 14:30 – 14:40 L. Chiaverini (*Italy*)
Multifunctional PLGA-PEG Nanoparticles for Platinum-Based Combination Therapy in Prostate Cancer
- 14:40 – 14:50 O. Čierny (*Slovakia*)
Spin-Crossover Fe(II) Complexes with N-donor Aromatic Ligands and Their Light-Induced Isomerization
- 14:50 – 15:00 S. Dahlhaus (*Germany*)
Gallium, Lutetium and Terbium Complexes as New Approaches for Cancer Therapy
- 15:00 – 15:10 N. Dratwinski (*Germany*)
Inspired by Nature: Vanadium-Dependent Haloperoxidases and their Tungsten and Molybdenum Analogues
- 15:10 – 15:40 ☕ *Coffee break*

- 15:40 – 15:50 A. Hlinčik (*Slovakia*)
Quantum Crystallography Study of Palladium(II) Phenanthroline-Salicylate Complex
- 15:50 – 16:00 M. Jaros (*Poland*)
Systematic Study on Physicochemical Properties of Nickel(II) Pentafluoropropionate Complexes with Aliphatic Amines
- 16:00 – 16:10 A. Kryczka (*Poland*)
Impact of Ligand Structural Isomerism on Optical Properties of C,N-Cyclometalated Iridium(III) Complexes
- 16:10 – 16:20 M. Lištiak (*Slovakia*)
More Than Just a Structure: Unraveling Bioactivity of Salicylatocopper(II) Complexes with 1,10-Phenanthroline
- 16:20 – 16:30 A. D. Maksimova (*Russia*)
Synthesis of Hybrid Materials Based on CNTs and Palladium Nanoparticles from Acetate Complexes: The Effect of the Ligand Environment on the Structure and Catalytic Activity
- 16:30 – 16:40 S. Müllerová (*Slovakia*)
Hydrogen Adsorption on Borophene Materials: A Theoretical Study
- 16:40 – 17:00  *Coffee break*

- 17:00 – 17:10 L. Novotná (*Slovakia*)
Transition Metal Complexes with Amidrazone Schiff Bases
- 17:10 – 17:20 E. A. Sosunov (*Russia*)
Mechanochromic Behavior of Pt(II) Carboxylate Based Complexes
- 17:20 – 17:30 K. Šoltéssová (*Slovakia*)
Magnetic Properties and Photoisomerization in Cobalt(II) Single-Molecule Magnets with Azo-Benzimidazole Ligands
- 17:30 – 17:40 O. Tkáč (*Slovakia*)
Metal Decoration of Silicene Quantum Dots: A DFT Study of their Hydrogen Storage Applications
- 17:40 – 17:50 P. Török (*Hungary*)
Conversion of Lithium Chloride to Lithium Hydroxide with Tricalcium Aluminate (Ca₃Al₂O₆)

- 19:00 **CLOSING**

