

## November 25<sup>th</sup> (Monday)

9:30

Opening

**9:40 – 11:00**

### **Session A**

Chair: **Marius Andruh** University of Bucharest, Romania

9:40

**Invited Lecture (I02): Masahiro Yamashita**

Tohoku University, Japan

*Highly Conducting Single-Molecule Magnets with Magnetoresistance*

10:00

**MOLSPIN Lecture (M01): Floriana Tuna**

The University of Manchester, UK

*Spin Coherence in f-Block Organometallic Compounds*

10:20

**MOLSPIN Lecture (M02): Lorenzo Sorace**

University of Florence, Italy

*Organic radicals deposited on surfaces: structural and magnetic properties*

10:40

**MOLSPIN Lecture (M03): Eva Rentschler**

Johannes Gutenberg-Universität Mainz, Germany

*Fun with chalcodiazole complexes of iron(II)*

**11:00 – 11:40 Coffee Break**

**11:40 – 13:15**

### **Session B**

Chair: **Andrea Cornia**

University of Modena and Reggio Emilia, Italy

11:40

**Invited Lecture (I02): Stefan Lis**

Adam Mickiewicz University, Poznań, Poland

*Nanoluminophores Doped with Lanthanide Ions and Their Multifunctional Nanostructures as Excellent Anti-counterfeiting Materials*

12:00

**Invited Lecture (I03): Fabrice Pointillart**

CNRS - University of Rennes 1, France

*Redox- and Hydro-Magnetic Modulations in Lanthanide-Based Single-Molecule Magnets*

12:20

**Invited Lecture (I04): Przemysław Malinowski**

University of Warsaw, Poland

*Pushing cations to the limits: why bother with Weakly Coordinating Anions?*

- 12:40 **Invited Lecture (I05): Kasper Pedersen**  
Technical University of Denmark  
*Tweaking Non-Innocence in a Family of 2D Coordination Solids*
- 13:00 **Oral Communication (O1): Magdalena Barwiołek**  
Nicolaus Copernicus University in Toruń, Poland  
*New copper(II) complexes with Schiff base ligands - the structural, luminescence and magnetic properties*
- 13:15 – 14:30 Lunch**
- 14:30 – 16:00 Session C**  
**Chair: Yann Garcia** Catholic University of Louvain, Belgium
- 14:30 **Invited Lecture (I06): Adam Proń**  
Warsaw University of Technology, Poland  
*Functional materials from semiconductor nanocrystals via inorganic core and ligands engineering*
- 14:50 **Invited Lecture (I07): Guillaume Rogez**  
Institut de Physique et de Chimie des Matériaux de Strasbourg, France  
*Layered hydroxides and oxides: from insertion to exfoliation*
- 15:10 **Invited Lecture (I08): Andrzej Stupakiewicz**  
University of Białystok, Poland  
*Ultrafast photo-magnetic switching: selectivity and functionality*
- 15:30 **Oral Communication (O2): Masooma Ibrahim**  
Karlsruhe Institute of Technology, Germany  
*Polyoxometalate-Based Highest-Nuclearity Iron Clusters*
- 15:45 **Oral Communication (O3): Will Skene**  
Université de Montréal, Montreal, Canada  
*Stable Conjugated Azomethines: Precursors for Opto-Electronic Uses*
- 16:00 – 16:40 Coffee Break**

**16:40 – 18:10 Session D**

Chair: **Sylvie Ferlay** University of Strasbourg, France

16:40

Oral Communication (O04): **Magdalena Fitta**

Polish Academy of Sciences, Kraków, Poland

*Magnetic functionalities in thin films of CN- bridged coordination polymers: from magnetocaloric effect to magnetic sponges*

16:55

Oral Communication (O05): **Dieter Koelle**

Physikalisches Institut Universität Tübingen, Germany

*NanoSQUIDS for studies of individual nanomagnets*

**17:10**

**Flash Presentations FP01-FP11**

**18:10 – 19:30**

**Poster Session FP01-FP11, P12-P29**

**November 26<sup>th</sup> (Tuesday)**

**9:00 – 13:00 Visit to the Wawel Castle**

**13:15 – 14:30 Lunch**

14:30 – 16:05 **Session E**

Chair: **Adam Proń** Warsaw University of Technology, Poland

14:30

MOLSPIN Lecture (M04): **Eugenio Coronado**

University of Valencia, Spain

*Impact of Molecular Magnetism in Spintronics*

14:50

MOLSPIN Lecture (M05): **Andrea Cornia**

University of Modena and Reggio Emilia, Italy

*Chromium(II)-based EMACs...revisited*

15:10

MOLSPIN Lecture (M06): **Grace Morgan**

University College Dublin, Ireland

*Electronic and Structural Order Parameters in Spin Switchable Complexes*

15:30

MOLSPIN Lecture (M07): **Gerard Śliwiński**

The Szewalski Institute of Fluid-Flow Machinery, Polish Academy of Science, Gdańsk, Poland

*Spin crossover in laser evaporated  $Fe(pyr)Pt(CN)_4$  and  $RbMn[Fe(CN)_6]$  thin films*

15:50

Oral Communication (O06): **Robert Bronisz**

University of Wrocław, Poland

*Interplay between structural phase transitions and spin crossover in iron(II) coordination polymers*

**16:05 – 16:40 Coffee Break**

**16:40 – 18:10**    **Session F**

Chair: **Lorenzo Sorace**

University of Florence, Italy

16:40

**Invited Lecture (I09): Franz Renz**

Leibniz University Hannover, Germany

*Coordination compounds as molecular switches and in composite materials*

17:00

**Invited Lecture (I10): Yann Garcia**

Catholic University of Louvain, Belgium

*Iron Sensors of Toxic Industrial Chemicals and Pressure Impacts*

17:20

**Oral Communication (O07): Anna Majcher-Fitas**

Jagiellonian University, Kraków, Poland

*Between molecular magnetism and soft matter: using polymers to obtain thin films with single ion magnets*

17:40

**Oral Communication (O08): Alexander S. Ovsyannikov**

A.E. Arbusov Institute of Organic and Physical Chemistry, Kazan, Russian Federation

*(Thia)calix[4]arene as a ligand for design of high-nuclear clusters involving d/f cations*

17:55

**Oral Communication (O09): Afshin Abrishamkar**

ETH Zurich, Switzerland

*Controlled Synthesis, In-Depth Study and Enhanced Processing of Molecular Materials are Enabled by Microfluidic Technology*

**18:10**

**Discussion Time**

**November 27<sup>th</sup> (Wednesday)**

**9:30 – 11:00**    **Session G**

Chair: **Fabrice Pointillart**

CNRS - University of Rennes 1, France

9:30

**Invited Lecture (I11): Valerie Marvaud**

Institut Parisien de Chimie Moléculaire CNRS - UMR 8232, France

*Multifunctional Hetero-tetra-Metallic Complexes*

9:50

**Invited Lecture (I12): Christian Näther**

University of Kiel, Germany

*Synthesis of mixed crystals as a tool to modify the structural and magnetic properties of coordination compounds*

- 10:10 **Invited Lecture (I13): Koji Nakabayashi**  
The University of Tokyo, Japan  
*Magnetic and Optical Functionalities of 3-D and 2-D Cyanido-bridged Metal Assemblies*
- 10:30 **Oral Communication (O10): Iwona Szymańska**  
Nicolaus Copernicus University in Toruń, Poland  
*Silver carboxylates for focused electron beam induced deposition (FEBID)*
- 10:45 **Oral Communication (O11): Masahiro Mikuriya**  
Kwansaei Gakuin University, Sanda, Japan  
*Metal-Assembled Complexes Based on Ruthenium Pivalate and Cyanidometalate Linkers*
- 11:00 – 11:40 Coffee Break**
- 11:40 – 13:15 Session H**  
Chair: **Matteo Mannini** University of Florence, Italy
- 11:40 **Invited Lecture (I14): Marius Andruh**  
University of Bucharest, Romania  
*New building blocks for designing coordination polymers. Chirality, Single-Crystal-To-Single-Crystal processes, and magnetic properties*
- 12:00 **Invited Lecture (I15): Dariusz Matoga**  
Jagiellonian University, Kraków, Poland  
*Stimuli-responsive metal-organic frameworks: from structural transformation towards functionality*
- 12:20 **Invited Lecture (I16): Sylvie Ferlay**  
University of Strasbourg, France  
*Assembling molecular crystals*
- 12:40 **Invited Lecture (I17): Edward Szyk**  
Nicolaus Copernicus University in Toruń, Poland  
*From chemistry of precursors to chemistry of materials*
- 13:00 **Oral Communication (O12): Tadeusz Muzioł**  
Nicolaus Copernicus University in Toruń, Poland  
*Application of synchrotron radiation for structural studies of complexes*
- 13:15 – 14:35 Lunch**

**14:35 – 16:00 Session I**

Chair: **Eva Rentschler**

Johannes Gutenberg-Universität Mainz, Germany

14:35

**MOLSPIN Lecture (M08): Fernando Luis**

University of Saragossa, Spain

*Scaling up quantum computing with magnetic molecules*

14:55

**MOLSPIN Lecture (M09): Radovan Herchel**

Palacký University Olomouc, Czech Republic

*The investigation of the second coordination sphere's impact on magnetism of single-molecule magnets and spin crossover compounds*

15:15

**Oral Communication (O13): Michał Rams**

Jagiellonian University, Kraków, Poland

*Single-Chain Magnet Based on Cobalt(II) Thiocyanate as XXZ Spin Chain*

15:30

**Oral Communication (O14): Dimitris I. Alexandropoulos**

University of Oxford, UK

*Employment of Non-Innocent Ligands in Transition Metal and Lanthanide Coordination Chemistry*

15:45

**Oral Communication (O15): Piotr Konieczny**

Institute of Nuclear Physics PAN, Kraków, Poland

*Anisotropy of magnetic relaxations in mononuclear Tb<sup>3+</sup> complex*

**16:00 – 16:40 Coffee Break**

**16:40 – 17:40 Session J**

Chair: **Fernando Luis** University of Saragossa, Spain

16:40

**MOLSPIN Lecture (M10): Artur Stefankiewicz**

Adam Mickiewicz University, Poznań, Poland

*Generation of functional nanostructures via self-assembly process*

17:00

**MOLSPIN Lecture (M11): Nicolas Chilton**

The University of Manchester, UK

*Magnetic relaxation from first principles*

17:20

**MOLSPIN Lecture (M12): Matteo Mannini**

University of Florence, Italy

*Influencing the dynamics of Single Molecule Magnets using surfaces*

17:40

Closing Remarks

**19:00 – 21:00 Conference Dinner in „Plac Nowy 1” Restaurant,  
Plac Nowy 1, Kraków**