



# Advances in Structure-Property Correlations, the Gate for Special Properties at Molecular and Nano-Scale Levels

ADSPECPRO 2012, September 20-21<sup>st</sup> Bucharest, Romania

## Scientific Program

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Thursday, September 20<sup>th</sup>

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09:00- 10:00 Opening registration desk

10:00- 10:30 Opening Ceremony

### Session 1 - Chaired by Mircea Diudea

10:30- 11:00 **1L1.** Mihai Girtu (Ovidius University of Constanța, Romania)  
*"Structure, Exchange and Anisotropy of the Room-Temperature Molecular Magnets  $V(\text{TCNE})_2$ "*

11:00- 11:30 **1L2.** Cristian Enachescu (Alexandru Ioan Cuza University, Iasi, Romania)  
*"Models in spin crossover compounds: from mean-field to Ising and elastic approaches"*

11:30- 11:50 **Coffee Break**

### Session 2 - Chaired by Snezana Zaric

11:50- 12:20 **2L3.** Horst Borrmann (Max Planck Institute for Chemical Physics of Solids, Dresden, Germany)  
*"More Detailed Information from X-ray Diffraction Experiments"*

12:20- 12:50 **2L4.** Alessandro Stroppa (University of L'Aquila, Italy )  
*"Interplay between hydrogen bondings, ferroelectricity and magnetism in multiferroic and magnetoelectric metal-organic frameworks"*

12:50- 14:00 **Lunch Break**

### Session 3 - Chaired by Mihai Girtu

- 14:00- 14:30 **3L5.** Shi Wang (Institute of Advanced Materials (IAM), Nanjing University of Posts & Telecommunications, Nanjing, China )  
*"Capped di-, tri-, and tetracyanometalates chemistry: a type of versatile building blocks for the construction of cyanide-bridged molecular architectures"*
- 14:30- 15:00 **3L6.** Stefania Tanase Grecea (Van't Hoff Institute for Molecular Sciences, University of Amsterdam, Holland)  
*"Short-range correlations in d-f cyanide-bridged assemblies"*
- 15:00- 15:30 **3L7.** Marilena Ferbinteanu (University of Bucharest, Faculty of Chemistry, Romania)  
*"Magnetic Anisotropy in Case Studies: Synthesis, Structure, Properties."*

15:30- 15:50

### Coffee Break

### Session 4 - Chaired by Cristian Enachescu

- 15:50- 16:20 **4L8.** Doina Humelnicu (Alexandru Ioan Cuza University, Iasi, Romania)  
*"Coordinative Compounds of Actinide Ions With N,O-Donor Ligands"*
- 16:20- 16:50 **4L9.** Petre Badica (National Institute of Material Physics, Magurele, Bucharest, Romania)  
*"Bulk superconducting MgB<sub>2</sub> with different additions "*
- 16:50- 17:20 **4L10.** Viorel Sandu (National Institute of Material Physics, Magurele, Bucharest Romania)  
*"Anisotropy and Pinning Force Scaling in Polycrystalline MgB<sub>2</sub>"*

### Session 5 - Chaired by Petre Badica

- 17:20- 17:30 **5SP1.** Mihai Burdusel (National Institute of Material Physics, Magurele, Bucharest Romania)  
*"Whiskers and bows of BiCo<sub>2</sub> crystal objects: growth and characterization by STM"*
- 17:30- 17:40 **5SP2.** Olivia Moga (University of Bucharest, Faculty of Chemistry, Romania)  
*"Short Hydrogen Bond in New Manganese (III) Naften Chain Complexes. Significant consequences of subtle packing changes"*
- 17:40- 17:50 **5SP3.** Florin Moscalu (University Ovidius, Constanta, Romania) *"Structure and Exchange Properties of M(TCNE)<sub>x</sub> High-Temperature Molecular Magnets, with M = V, Mn, and Fe"*



15:30- 15:50

**Coffee Break**

**Session 9 - Chaired by Radu Silaghi-Dumitrescu**

- 15:50-16:00 **9SP5.** Petre Panait (Ovidius University, Constanta, Romania)  
*"Structure-Properties Correlations for Two Manganese-Porphyrin Quasi-One-Dimensional Molecular Magnets"*
- 16:00- 16:10 **9SP6.** Andreea Gheorghe (University of Bucharest, Faculty of Chemistry, Romania)  
*" Structural Chemistry And Solid State Physics Of Mn (III) Spin-Crossover Compounds."*
- 16:10- 16:20 **9SP7.** Atitoaie Alexandru (Alexandru Ioan Cuza University, Iasi, Romania)  
*"Size dependent thermal hysteresis in spin crossover nanoparticles"*
- 16:20- 16:30 **9SP8.** Dana Stamate (University Ovidius, Constanta, Romania) *"New building-blocks in d-f assemblings"*
- 16:40- 16:50 **9SP9.** Dinu Irina (University of Bucharest, Faculty of Chemistry, Romania) *" New Co(II) And Ni(II) Cubane-Like Structure. Structural Prototypes in Coordination Chemistry."*

16:50- 17:10

**Closing ceremony**

19:00

**Conference Dinner**