

## Conference Programme (only presenters are listed)

### Tuesday 31/05/2016

- 17:00 - 19:00 Registration at Hotel Albatros  
20:00 Welcome Reception at Hotel Albatros



### Wednesday 01/06/2015

- 09:00 - 09:15 **Opening Ceremony** (M. Ristić, T. Nishida, V.K. Sharma)  
09:15 - 09:45 Hartmut Spiering: *Overview of the Scientific Achievements of Prof. Dr. Philipp Gütllich*  
09:45 - 11:00 **Plenary & Invited Lectures** (Chairperson: T. Nishida)  
09:45 - 10:30 Eckhard Bill: *Spectroscopy of Iron Complexes for Chemical Energy Conversion*  
10:30 - 11:00 Dénes Lajos Nagy: *Poor Man's Big Bang: Lessons Learnt from After-Effect Studies with Mössbauer Emission Spectroscopy*  
11:00 - 11:30 **Coffee Break**   
11:30 - 13:00 **Invited Lectures** (Chairperson: E. Bill)  
11:30 - 12:00 Yann Garcia: *Spin Transition Materials Based on Thermo and Photochromic Switches*  
12:00 - 12:30 Jun Okabayashi: *Comparison between Mössbauer and X-ray Absorption Spectra in Novel Spin-Crossover Complexes*  
12:30 - 13:00 Felix Tuczek: *Thermal and Optical Spin-State Switching of Surface-Adsorbed Iron Complexes*  
13:00 - 14:30 **Lunch Time**   
14:30 - 16:00 **Invited Lectures** (Chairperson: I. Felner)  
14:30 - 15:00 Juliusz A. Wolny: *Nuclear Inelastic Scattering as a Tool for the Investigation of Spin Crossover Fe(II) Complexes*  
15:00 - 15:30 Peter Adler: *Magnetic Phase Transitions in Iron Compounds with Composite Anionic Lattices Probed by Mössbauer Spectroscopy*  
15:30 - 16:00 Vadim Ksenofontov: *Local and Itinerant Magnetism in Fe-based Superconductors*  
16:00 - 16:30 **Coffee Break**   
16:30 - 18:30 **Invited Lectures & Oral Presentations** (Chairperson: M. Reissner)  
16:30 - 17:00 Vijayendra Garg: *Superparamagnetic Iron Oxide Nanoparticles (SPIONs) for Targeted Drug Delivery*  
17:00 - 17:30 Victor Kuncser: *Magnetic Relaxation and Inter-Particle Interactions in Fe Oxide Nanoparticles for Bio-Medical Applications*  
17:30 - 17:45 Marija Perović: *Magnetic Relaxation in Super Spin Glass Systems – Search for High Temperature Memory Effects*  
17:45 - 18:00 Stanislaw M. Dubiel: *Magnetic and dynamic properties of a  $\sigma$ -Fe<sub>65.9</sub>V<sub>34.1</sub> alloy*  
18:00 - 18:15 Hakan Güngüneş: *Structural Investigation and Hyperfine Interactions of BaBi<sub>x</sub>La<sub>x</sub>Fe<sub>12-2x</sub>O<sub>19</sub> (0.0 ≤ x ≤ 0.5) Hexaferrites*


## Thursday 02/06/2015

**09:00 - 10:45 Plenary & Invited Lectures** (Chairperson: D.L. Nagy)

09:00 - 09:45 Ralf Röhlsberger: *New Frontiers in Nuclear Resonant Spectroscopy: Applications from Nanomagnetism to X-Ray Quantum Optics*

09:45 - 10:15 Rolfe H. Herber & Israel Nowik: *Lattice Dynamics, Phase Transitions, Spin Relaxation and Valence Fluctuations in Ferrocenoids*

10:15 - 10:45 Stewart J. Campbell: *Structural and Magnetic Properties of  $RMn_2X_2$ -type Compounds – Scope for Purpose Designed Materials*

**10:45 - 11:15 Coffee Break** 

**11:15 - 13:15 Invited Lectures** (Chairperson: R. Röhlsberger)

11:15 - 11:45 Gerhard Wortmann: *Magnetism and Valence in the CsCl-Phases of EuO, EuS and EuSe at Extreme Pressures*

11:45 - 12:15 Ko Mibu: *Studies on Thin Iron-Oxide Films as Components for Spintronics Devices Using Conventional and Synchrotron-Radiation Mössbauer Spectroscopy*

12:15 - 12:45 Yoshio Kobayashi: *Chemical States of Localized Fe Atoms in Ethylene Matrices by Means of In-Beam Mössbauer Spectroscopy*

12:45 - 13:15 Satoshi Tsutsui: *Application of Synchrotron Radiation Mössbauer Spectroscopy to Samarium Compounds*

**13:15 - 14:30 Lunch Time**

**15:00 Conference Excursion**

Boat trip to Koločep Island, Dubrovnik sightseeing, dinner in Konavle village



## Friday 03/06/2015

**09:00 - 11:00 Invited Lectures** (Chairperson: S.J. Campbell)

09:00 - 09:30 Frank J. Berry: *Manipulations of New Mineral-Related Materials*

09:30 - 10:00 Vladimír Šepelák: *Structural Disorder Phenomena in Nanostructured Oxides*

10:00 - 10:30 Junhu Wang: *Mössbauer Probed the Cationic Distribution of Spinel Oxides with Well Controlled Morphology as Electrocatalysts*

10:30 - 11:00 Yasuhiro Yamada: *Iron Films Deposited on Porous Alumina Substrates*

**11:00 - 11:30 Coffee Break** 

**11:30 - 13:00 Invited Lectures** (Chairperson: L. Machala)

11:30 - 12:00 Virender K. Sharma: *Ferrites in Sustainable Energy and Environmental Remediation: Mössbauer Spectroscopy Characterization*

12:00 - 12:30 Michael Oshtrakh: *Mössbauer Spectroscopy of Hemoglobins and Ferritins: Recent Advances in Biophysical and Medical Research*

12:30 - 13:00 Paul A. Bingham: *Application of Mössbauer Spectroscopy to the Immobilisation of Radioactive and Toxic Wastes*

**13:00 - 14:30 Lunch Time** 

**14:30 - 16:00 Invited Lectures** (Chairperson: V.K. Sharma)

14:30 - 15:00 Zoltán Homonnay: *Iron Oxide Nanoparticles for Plant Nutrition? - A Preliminary Mössbauer Study*

15:00 - 15:30 Nataliya Chistyakova: *Mössbauer Spectroscopy in Microbial Transformations of Iron-Containing Minerals*

15:30 - 16:00 Libor Machala: *Transformation Mechanisms of Ferrates - Impact on Their Application in Water Treatment*

**16:00 - 16:30 Coffee Break** 

**16:30 - 18:15 Oral Presentations** (Chairperson: Z. Homonnay)

16:30 - 16:45 Tetsuaki Nishida: *Substitution of Ga<sub>2</sub>O<sub>3</sub> and GeO<sub>2</sub> for Fe<sub>2</sub>O<sub>3</sub> in Conductive Barium Iron Vanadate Glass*

16:45 - 17:00 Keito Osouda: *Electrical Conductivity and Local Structure of Aluminum-Containing Vanadate Glass*

17:00 - 17:15 Kosuke Sunakawa: *Local Structure and Magnetic Properties of Iron Phosphate Glass Prepared by Sol-Gel Method*

17:15 - 17:30 Alevtina Maksimova: *Mössbauer Spectroscopy of H, L and LL Ordinary Chondrites*

17:30 - 17:45 Károly Lázár: *Mobility of Iron Ions in Porous Ferrisilicates*

17:45 - 18:00 Adriana Lančok: *Ferritin Nanoparticles in Biological Tissues*

18:00 - 18:15 Alexander S. Kamzin: *Mössbauer Studies of Magnetic Nanoparticles for Biomedical Applications*

**18:15 Closing Ceremony**

**20:00 Conference Dinner**

**POSTER PRESENTATIONS** (Posters will be on display all the time during the conference)

P1 Shota Amagasa: *Mössbauer Study of Iron Carbide Nanoparticles Produced by Laser Ablation in Alcohols*

P2 Marko Bošković: *Animal Model Study of Magnetic Nanoparticles Biodistribution by AC Susceptibility*

P3 Hyunkyung Choi: *Mössbauer Analysis of the Mixed Olivines LiFe<sub>0.9</sub>Zn<sub>0.1</sub>PO<sub>4</sub>*

P4 Serhiy Demeshko: *Spin State Versatility in a Series of Fe<sub>4</sub> [2×2] Grid Complexes: Effects of Counteranions, Solvent and Intramolecular Cooperativity*

P5 Israel Felner: *Lattice Dynamics, Phase Transitions and Spin Relaxation in [Fe(C<sub>5</sub>H<sub>5</sub>)<sub>2</sub>]PF<sub>6</sub>*

P6 Valentin Filippov: *Secondary Particles Precipitates in Be-Fe Alloys*

P7 Valentin Filippov: *The Phase Transformations in Intermetallic Phases in Zirconium Alloys*

P8 Valentin Filippov: *Precision of Iron the Solubility in Zirconium Alloys*

P9 Il'ya A. Gural'skiy: *Magnetic, Mössbauer and Structural Monitoring of Spin State Switch in Iron(II)-Pyrazine Cyanoheterometallates*

P10 Stjepko Krehula: *Synthesis and Properties of Indium-Doped Iron Oxides*

P11 Erno Kuzmann: *Mössbauer Study of pH Dependence of Iron Intercalation in Montmorillonite*

P12 Hiroyuki Nakamura: *Mössbauer Study of M-type Ca-La Ferrite Single Crystals*

P13 Naoki Nishida: *One-Pot Production of Copper Ferrite Nanoparticles by Chemical Method*

P14 Ivana Opačak: *The Precipitation of α-Fe<sub>2</sub>O<sub>3</sub> Particles by Forced Hydrolysis of FeCl<sub>3</sub> Solutions in the Presence of Sodium Dodecyl Sulphate*

P15 Michael Reissner: *<sup>57</sup>Fe Mössbauer Spectroscopy Analysis of Fe-Bearing Phases in the Manufacture of TiO<sub>2</sub> Pigment*

P16 Vlad Salomasov: *Iron Mössbauer Spectra Investigation of Nepheline Substrate Using for Preparing the Water Treatment Reagent*

P17 Sergii I. Shylin: *Spin Fluctuations in FeSe-Based Superconductors under Pressure*