

Conference Programme (only presenters are listed)

Sunday 07/06/2015

17:00 - 19:00 Registration at Hotel Donat

20:00 Welcome Reception at Hotel Donat



Monday 08/06/2015

09:00 - 09:30 Opening Ceremony (Chairperson: M. Ristić)

09:30 - 11:00 Plenary Lectures (Chairperson: V.K. Sharma)

09:30 - 10:15 Philipp Gütlich: *Spin State Switching in Iron Coordination Compounds - Retrospect, Trends, Perspectives*

10:15 - 11:00 Radek Zbořil: *Iron oxide based nanomaterials for environmental, magnetic and catalytic applications by view of Mössbauer spectroscopy*

11:00 - 11:30 Coffee Break 

11:30 - 13:00 Invited Lectures (Chairperson: R. Zbořil)

11:30 - 12:00 Virender K. Sharma: *Ferrate and ferryl species: Mössbauer spectroscopy investigations*

12:00 - 12:30 Tetsuaki Nishida: *Characterization and conduction mechanism of highly conductive vanadate glass*

12:30 - 13:00 Denes Lajos Nagy: *Quality assurance in Mössbauer spectroscopy*

13:00 - 14:00 Lunch Time 

14:00 - 15:30 Invited Lectures (Chairperson: I.S. Lyubutin)

14:00 - 14:30 Elisa Baggio-Saitovitch: *Structural and magnetic properties of Fe-doped Yb films prepared by vapor deposition*

14:30 - 15:00 José Francisco Marco: *Mössbauer studies on Fe₃O₄ and CoFe₂O₄ thin films*

15:00 - 15:30 Massimo Carbuticchio: *Magnetic thin films and multilayers*

15:30 - 16:00 Coffee Break 

16:00 - 17:30 Invited Lecture & Oral Presentations (Chairperson: M. Reissner)

16:00 - 16:30 Jean Marc Greneche: *Magnetic properties of ferrites and nanoferrites investigated by ⁵⁷Fe Mössbauer spectrometry*

16:30 - 17:00 Cathrine Frandsen: *Magnetic properties of antiferromagnetic nanoparticles and the influence of inter-particle exchange interactions*

17:00 - 17:15 Marko Bošković: *Iron oxide: magnetic hyperthermia and encapsulation*

17:15 - 17:30 Liudmila Dzemiantsova: *Topologically protected magnetic helix imaged with Mössbauer spectroscopy and X-ray polarimetry*

19:00 Zadar Sightseeing

Tuesday 09/06/2015

09:00 - 10:30 Invited Lectures (Chairperson: J.M. Greneche)

09:00 - 09:30 Igor S. Lyubutin: *Mössbauer spectroscopy characterization of hollow microcapsules designed for the targeted drug delivery*

09:30 - 10:00 Květoslava Burda: *Role of the intermediate spin state of reduced non-heme iron in bacterial reaction centers of type II*

10:00 - 10:30 Ernő Kuzmann: *Mössbauer, XRD and TEM study on the intercalation and the release of drugs in/from layered double hydroxides*

10:30 - 11:00 Coffee Break 

11:00 - 12:00 Invited Lectures (Chairperson: S.M. Dubiel)

11:00 - 11:30 Michael Reissner: *Investigation of magnetic, electronic and crystallographic structure of FeSb₂*

11:30 - 12:00 Cesar Barrero: *Mössbauer spectrometry and the magnetism of Fe-doped and Fe-transition-metal co-doped ZnO and SnO₂ nanoparticles*

12:00 - 13:00 Lunch Time 

13:30 Conference Excursion (Krka National Park, Šibenik, dinner in Dalmatian village)



Wednesday 10/06/2015

09:00 - 10:30 Invited Lectures (Chairperson: M. Miglierini)

09:00 - 09:30 Israel Felner: *Synchrotron radiation Mössbauer spectra of a rotating absorber*

09:30 - 10:00 Bogdan Sepiol: *Nanoscale dynamics - an atomistic picture*

10:00 - 10:30 Stanisław M. Dubiel: *Application of the Mössbauer spectroscopy to study spin- and charge-density waves*

10:30 - 11:00 Coffee Break 

11:00 - 12:30 Invited Lectures (Chairperson: C. Barrero)

11:00 - 11:30 Marcel Miglierini: *Surface features of nanocrystalline alloys*

11:30 - 12:00 Adriana Lančok: *Structural transformation in high corrosion resistant steel*

12:00 - 12:30 Kiyoshi Nomura: *Oxygen vacancy and dilute magnetism of SnO₂ doped with Fe and metal ions*

12:30 - 14:00 Lunch Time 

14:00 - 15:30 Invited Lectures (Chairperson: K. Nomura)

14:00 - 14:30 Göstar Klingelhöfer: *In-Situ Mössbauer and PIXE analysis of planetary surfaces and small bodies*

14:30 - 15:00 Károly Lázár: *Preparation of iron oxide xero- and aerogels by hydrolysis in aprotic media*

15:00 - 15:30 Satoru Nakashima: *DFT Study on thermal spin-crossover behavior for complexes having $Fe(NCS)_2(pyridine)_4$ unit*

15:30 - 16:00 Coffee Break 

16:00 - 17:30 Invited Lecture & Oral Presentations (Chairperson: T. Nishida)

16:00 - 16:30 Shiro Kubuki: *Relationship between structure and visible light activated photocatalytic ability of iron containing aluminosilicate glass prepared by sol-gel method*

16:30 - 16:45 Masashi Kaneko: *Computational study on Mössbauer isomer shifts of some organic-neptunium(IV) complexes*

16:45 - 17:00 Takafumi Kitazawa: *Mössbauer spectroscopic study on Hofmann-like coordination polymer $Fe(4-Clpy)_2[Ni(CN)_4]$*

17:00 - 17:30 Mile Ivanda: *Development and applications of SERS techniques*

17:30 Closing Ceremony

18:00 - 19:00 Poster Session

21:00 Conference Dinner

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

- P1 Geraldo Magela da Costa: *The multiple dehydroxylation peaks of goethite and the existence of hydrohematite revisited*
- P2 Karen E. García: *Mössbauer spectrometry study of corroded steels surfaces submitted to accelerated tests in chloride environments*
- P3 Mohamed Y. Hassaan: *Effect of sulfur addition on some physical properties of Li-V-Fe silicate glass and glass-ceramic nano composite*
- P4 Juan A. Jaén: *Characterization of magnesium doped lithium iron silicate*
- P5 Radina P. Kralchevska: *Mechanism of phosphorus(V) substitution in Fe(III) component lattice*
- P6 Stjepko Krehula: *Synthesis and microstructural properties of mixed iron-gallium oxides*
- P7 Shiro Kubuki: *Improving the performance of metallic-iron-maghemite nanoparticle system for treating polluted water*
- P8 M.G. Moustafa: *Role of sulfur addition as a reducing agent on the ionic state of the transition metals in lithium silicate glass containing Fe and Ni ions*
- P9 Ivana Opačak: *The influence of gum arabic on the precipitation of α -FeOOH in a highly alkaline medium*
- P10 Marija Perović: *Simultaneous relaxation processes in super spin glass maghemite nanoparticles*
- P11 Alex Scrimshire: *Variable temperature Mössbauer spectroscopy study of nano-particle iron carbides*