



Mössbauer Spectrometry in Materials Science

Kočovce, Slovakia

June 11 – 15, 2006

Program

Sunday, June 11, 2006

16:00 – 18:00 arrival, registration

18:00 – 19:00 dinner

19:00 welcome party

Monday, June 12, 2006

08:00 – 08:30 breakfast

09:00 – 09:10 Miglierini Marcel (Bratislava): opening

Chair: Mašláň Miroslav (Olomouc)

09:15 – 9:55 Sitek Jozef (Bratislava):

Aluminium based amorphous and nanocrystalline alloys containing Fe

09:55 – 10:35 Yelsukov Eugene P. (Izhevsk):

Mössbauer spectroscopy of Fe-based nanomaterials

10:35 – 11:10 break

Chair: Lazar Karoly (Budapest)

11:10 – 11:50 Nadutov Vladimir (Kyiv):

Mössbauer study of Fe powder mechanically alloyed by power ultrasonics

11:50 – 12:30 Závěta Karel (Prague):

Superparamagnetic properties of Fe₂O₃ particles: Mössbauer spectroscopy and DC magnetic measurements

12:30 – 13:30 lunch

Chair: Yelsukov Eugen P. (Izhevsk)

14:30 – 15:10 Nomura Kiyoshi (Tokyo):

Mössbauer studies of SnO₂ powders doped with dilute ⁵⁷Fe prepared by a sol-gel method

15:10 – 15:45 Roupcová Pavla (Brno):

Preparation and properties of Fe and Fe₃O₄ nanoparticles embedded in ZrO₂ matrix

15:45 – 16:20 break

Chair: Nadutov Vladimir (Kyiv)

16:20 – 17:00 Chistyakova Natalia (Moscow):

Mössbauer investigations of natural and synthetic tochilinite and vallariite

17:00 – 17:30 Lančok Adriana (Prague):

Mössbauer studies of magnetic Fe₂O₃/SiO₂ nanocomposite

17:30 – 18:00 David Bohumil (Brno):
Fe₃C-based nanopowder studied by Mössbauer spectroscopy

18:00 – 19:00 dinner

20:00 evening discussion at a chimney place

Tuesday, June 13, 2006

08:00 – 08:30 breakfast

Chair: Nomura Kiyoshi (Tokyo)

09:00 – 09:40 Lazar Karoly (Budapest):
Redox behaviour of iron in micro- and mesoporous ferrisilicates

09:40 – 10:10 Caspary Ernst-Georg (Prague):
Characterization of structure of Fe-species in Fe-ferrierite using Mössbauer spectroscopy

10:10 – 10:40 Kluchová Kateřina (Olomouc):
Effect of reaction temperature on properties of iron(III) oxide nanoparticles prepared by solid-state route from iron(II) acetate

10:40 – 11:10 break

Chair: Závěta Karel (Prague)

11:10 – 11:50 Stankov Svetoslav (Grenoble):
Vibrational density of phonon states in thin Fe films on W(110) measured by nuclear inelastic scattering of synchrotron radiation

11:50 – 12:30 Tuček Jiří (Olomouc):
Hematite nanoparticles by view of Mössbauer spectroscopy

12:30 – 13:30 lunch

14:30 – 17:30 social program

18:00 – 19:00 dinner

20:00 barbecue

Wednesday, June 14, 2006

08:00 – 08:30 breakfast

Chair: Sitek Jozef (Bratislava)

09:15 – 09:55 Žák Tomáš (Brno):
Structure and phases of low neodymium NdFeB permanent magnets

09:55 – 10:30 Matik Marek (Olomouc):
Effect of precipitation conditions on the magnetic and sorption properties of maghemite-zeolite composites

10:30 – 11:05 break

Chair: Zbořil Radel (Olomouc)

11:05 – 11:35 Miglierini Marcel (Bratislava):

Influence of Composition on Hyperfine Interactions in FeMoCuB Nanocrystalline Alloys

11:35 – 12:00 Kaňuch Tomáš (Bratislava):

Effect of external magnetic field annealing on magnetic texture of Mo-containing NANOPEM-type nanocrystalline alloys

12:00 – 12:30 Pavúk Milan (Bratislava):

AFM and Mössbauer spectrometry investigation of crystallization process in Fe-Mo-Cu-B alloy

12:30 – 13:30 lunch

Chair: Degmová Jarmila (Bratislava)

14:30 – 15:05 Procházka Roman (Olomouc):

Optimizing the features of the SCA towards improvement of Mössbauer spectra productivity

15:05 – 15:40 Lashin Abdel Rahman (Brno):

Surface oxidation of Fe-Si alloy

15:40 – 16:15 Heřmánek Martin (Olomouc):

Effect of the precursor layer on properties of nanoscopic powders formed by thermally induced solid-state reactions

16:15 – 16:50 break

Chair: Chistyakova Natalia (Moscow)

16:50 – 17:25 Dekan Július (Bratislava):

Mössbauer, XRD, NAA and XRF Study of Archaeological Slag

17:25 – 17:55 Sitek Jozef (Bratislava):

45 years of Mössbauer spectroscopy in Czecho-Slovakia

17:55 – 18:00 Miglierini Marcel (Bratislava): closing

18:00 – 19:00 dinner

20:00 farewell evening

Thursday, June 15, 2006

08:00 – 08:30 breakfast

09:30 departure