

PROGRAMME of the 6th Croatian–Slovenian-Serbian Symposium on Zeolites

THURSDAY (1.10.2015.)

08:00 Registration

09:00 Opening ceremony

Chair: Josip Bronić

09:15 Plenary lecture

Post-synthesis modification of zeolites by fluoride medium treatment

Valentin Valtchev

10:00 Invited lecture

In situ X-ray diffraction for the study of mechanochemical reactions and the discovery of new materials

Ivan Halasz, Athanasios Katsenis, Andreas Puškarić, Krunoslav Užarević, Tomislav Friščić

10:30 Invited lecture

Design of MOF heterostructures for expanding application opportunities

Matjaž Mazaj, Sebastijan Kovačič, Nataša Zabukovec Logar

11:00 Coffee break

Chair: Nevenka Rajić

11:30 Section lecture

Hierarchical FeZSM-5 zeolite for Fenton oxidative degradation of water pollutants

Vladislav Rac, Dušan Stošić, Radmila Hercigonja, Vesna Rakić

11:45 Section lecture

The arrangement of linkers in MOFs: a solid-state NMR view

Andraž Krajnc, Tomaž Kos, Nataša Zabukovec Logar, Gregor Mali

12:00 Section lecture

Synthesis of zinc glycly-L-phenylalaninate and its characterization

Andreas Puškarić, Matija Gredičak, Josip Bronić

12:15 Section lecture

The derived form of breakthrough curves for mathematical description of the column process

Ivana Nuić, Jelena Perić, Marina Trgo, Nediljka Vukojević Medvidović

12:30 Section lecture

A contribution to understanding the mechanism of zeolites crystallization

Boris Subotić, Sanja Bosnar, Josip Bronić, Tatjana Antonić Jelić, Nan Ren

13:00 Lunch

Chair: Nataša Zabukovec Logar

15:30 Plenary lecture

New finds for nanosized zeolites direct novel applications

Svetlana Mintova

16:15 Invited lecture

Postsynthetic creation of mesopores in MFI, FAU and BEA zeolites: influence on adsorptive and catalytic behavior

Vladislav Rac, Vesna Rakić, Dušan Stošić, Ljiljana Damjanović, Aline Auroux

16:45 Invited lecture

X-ray absorption spectroscopy of porous materials

Mojca Rangus, Matjaž Mazaj, Nataša Novak Tušar, Nataša Zabukovec Logar

17:15 Coffee break

Chair: Nataša Novak Tušar

17:30 Section lecture

The study of formation of chabazite zeolite using FAU-type crystals as starting material

Ana Palčić, Maguy Jaber, Sandra Casale, Aurelie Vicente, Christian Fernandez, Guillaume Clet, Josip Bronić, Valentin Valtchev

17:45 Section lecture

Point charge fitting in a triclinic lattice

Jure Varlec

18:00 Section lecture

Antibacterial activity of metal-loaded zeolites against Escherichia coli

Jelena Milenković, Jasna Hrenović, Maja Vukašinović-Sekulić, Nevenka Rajić

18:15 Section lecture

Organic-free colloidal titania as the impregnation media of mesoporous silica in indoor air-cleaning applications

Andraž Šuligoj, Urška Lavrenčič Štangar, Alenka Ristić, Matjaž Mazaj, Dejan Verhovšek, Nataša Novak Tušar

18:30 Section lecture

Sorption edge curves for Pb(II), Zn(II) and Cd(II) removal by natural and iron-modified zeolite

Marin Ugrina, Nediljka Vukojević Medvidović, Ina Baletić, Jelena Perić, Ivona Nuić

FRIDAY (2.10.2015.)

Chair: Aleksandra Daković

09:00 Plenary lecture

Geology of zeolites

Vladimir Bermanec

09:45 Invited lecture

Removal of lead ions from simulated and real pollutant solutions by using the natural and Fe(III)-modified zeolite

Milan Kragović, Aleksandra Daković, Marija Marković, Mirjana Stojanović, Jelena Petrović, Vera Dondur, Aleksandar Jović

10:15 Invited lecture

Positron annihilation lifetime spectroscopy (PALS) in structural investigations of zeolites – an overview of the experimental results

Sanja Bosnar

10:45 Coffee break

Chair: Marina Trgo

11:15 Invited lecture

A structure directing role of 3-(methylamino)propylamine in the crystallization of open-framework metallophosphates

Sanja Jevtić, Nevenka Rajić

11:45 Section lecture

Characterization of dynamic behaviour of Cd(II) and Zn(II) uptake from a binary solution onto the fixed zeolite bed

Ivona Nuić, Kristina Sabljo, Marina Trgo, Nediljka Vukojević Medvidović, Marin Ugrina

12:00 Section lecture

Adsorption of zearalenone on surface modified zeolites - clinoptilolite and phillipsite

Marija Marković, Aleksandra Daković, George E. Rottinghaus, Milan Kragović, Mariano Mercurio, Bruno de Gennaro, Ljiljana Damjanović

12:15 Section lecture

Phosphate adsorption from aqueous solution using iron-modified clinoptilolite

Jelena Pavlović, Iva Kaplanec, Slavica Lazarević, Nevenka Rajić

12:30 Section lecture

The influence of ionic interaction on removal of metal ions from a binary solution onto zeolites

Marin Ugrina, Marija Sikavica, Nediljka Vukojević Medvidović, Marina Trgo, Sanja Slavica Matešić

12:45 Section lecture

Microwave-assisted depolymerisation of biolignin in the presence of zeolite-based catalysts

Jelena Milovanović, Antonio A. Romero, Rafael Luque, Nevenka Rajić

13:00 Section lecture

Natural zeolite influence on the surface motility of acinetobacter baumannii

Jasna Hrenović, Darko Tibljaš, Marin Ganjo, Goran Durn, Ivana Goić-Barišić

13:30 Lunch time

16-20 Excursion to Etnoland, Pakovo Selo

SATURDAY, 3.10.2015.

09:00 Closing remarks