

7th Czech-Polish Catalytic Symposium

February 2, 2018 from 8:00 to 21:30

Meeting room 3.04, Institute of Environmental Technology, VŠB-Technical
University of Ostrava

Program

8:00 – 8:20 – Registration

8:20 – 8:30 – Petr Praus (VŠB- Technical University of Ostrava)
vice-rector for Science and Research
Opening speech

1. Section

Chairman: Andrzej Kotarba (Jagiellonian University in Krakow)

8:30 – 8:50 – Ireneusz Szewczyk (Jagiellonian University in Krakow)
Effect of nitrogen doping on catalytic activity of mesoporous
carbons in oxidative dehydrogenation of ethylbenzene

8:50 – 9:10 – Marcelina Radko (Jagiellonian University in Krakow)
Vanadium-doped TiO₂ for selective oxidation of organic sulfides
to sulfoxides and/or sulfones with hydrogen peroxide

9:10 – 9:30 – Jaroslav Lang (VŠB-Technical University of Ostrava)
Preparation of TiO₂ and zirconium-doped TiO₂ photocatalysts
using titanyl sulphate and their activity in AO7 photodegradation

9:30 – 9:50 – Lada Dubnová (University of Pardubice)
In-situ characterization of the transformation of Zn-Al
hydrotalcites to appropriate mixed oxides active in aldol
condensation of furfural

9:50 – 10:10 – Tereza Bílková (VŠB-Technical University of Ostrava)
Direct NO decomposition over CoMnAl mixed oxides

10:10 – 10:25 – Coffee break

2. Section

Chairman: Wojciech Macyk (Jagiellonian University in Krakow)

10:25 – 10:45 – Aleksandra Borcuch (Jagiellonian University in Krakow)

The influence of iron aggregation on catalytic performance of micro-mesoporous MFI in DeNO_x process

10:45 – 11:05 – Tomasz Berniak (Jagiellonian University in Krakow)

Selective aerobic oxidation of 4-methylanisole over N-hydroxyphthalimide species incorporated into polymer structure

11:05 – 11:25 – Zdeněk Zikmund (VŠB-Technical University of Ostrava)

Ni-C catalyst for reforming of hydrocarbons

11:25 – 11:45 – Malgorzata Chelmicka (Lodz University of Technology)

Hydrolytic hydrogenation of lignocellulosic biomass towards biofuel additives

11:45 – 13:00 – Lunch

3. Section

Chairman: Jacek Grams (Lodz University of Technology)

13:00 – 13:20 – Tomasz Kondratowicz (Jagiellonian University in Krakow)

Hollow zirconia spheres decorated with cobalt and copper oxides as catalysts of toluene combustion

13:20 – 13:40 – Aneta Świąż (Jagiellonian University in Krakow)

Functionalization of mesoporous silica materials for environmental catalysis - case study

13:40 – 14:00 – Joanna Kunczewicz (Jagiellonian University in Krakow)

Spectroelectrochemical probing of electronic states close to the valence band in doped semiconductors

14:00 – 14:20 – Wojciech Kaspera (Jagiellonian University in Krakow)

Catalytic soot combustion over oxides - fundamental and applied research

14:20 – 14:40 – Magdalena Mikrut (Jagiellonian University in Krakow)

What's wrong with Wawel smog?

14:40 – 15:00 – Coffee break

4. Section

Chairman: Libor Čapek (University of Pardubice)

15:00 – 15:20 – Barbora Grycová (VŠB-Technical University of Ostrava)

Garden waste as a feedstock for activated carbon preparation and hydrogen production by microwave pyrolysis

15:20 – 15:40 – Sebastian Jarczewski (Jagiellonian University in Krakow)

Catalytic performance of carbon nanoreplics with various pore structures in oxidative dehydrogenation of ethylbenzene

15:40 – 16:00 – Jaroslav Kocík (University of Pardubice)

Using of Mg-X mixed oxides for biodiesel production

16:00 – 16:20 – Adriana Panasewicz (University of Maria Curie-Sklodowska in Lublin, University of Pardubice)

Acido-basic properties of Mg-Ga mixed oxides

16:20 – 16:40 – Mateusz Trochowski (Jagiellonian University in Krakow)

Visible light active TiO₂ - a new approach

16:40 – 17:00 – Marcin Kobielski (Jagiellonian University in Krakow)

Artificial photosynthesis - selected challenges and obstacles

17:00 – 17:45 – Presentation of IET laboratories

17:45 – 21:30 – Discussion and closing ceremony

Acknowledgement

The financial support of the project PROGRES 3 Consortium is gratefully acknowledged.