



March 17-18 2010, Krakow

Workshop on Photocatalysis and its Application in Removal of Contaminants

Programme

Wednesday, 2010.03.17

- 12⁰⁰ – 15⁰⁰ *Registration in the hall of the ICSC*
- 15⁰⁰ – 15¹⁰ *Opening of the workshop*
- 15¹⁰ – 15⁵⁵ *Invited lecture:*
V. I. Pârvulescu,
University of Bucharest, Romania,
“Photocatalysis in Destroying Pesticides and Warfare Agents”
- 15⁵⁵ – 16¹⁵ A. Jańczyk, G. Stochel, W. Macyk
Jagiellonian University, Krakow, Poland
“Photocatalytic Inactivation of Tumor Cells and Microorganisms”
- 16¹⁵ – 16³⁵ P. Łabuz, G. Stochel, W. Macyk,
Jagiellonian University, Krakow, Poland
„Photosensitized Titanium Dioxide Colloids for Visible Light Disinfection”
- 16³⁵ – 16⁵⁵ *Coffee break*
- 16⁵⁵ – 17⁴⁰ S. Dzwigaj, JP. Nogier, Y. Millot, T. Shishido, M. Matsuoka, M. Saito, E. Thouverez,
M. Anpo, M. Che,
University of Pierre and Marie Curie, Paris, France,
“The Design of Metal-Single site Catalysts for their Application in Photocatalytic Processes “
- 17⁴⁰ – 18⁰⁰ R. Gryboś, T. Kasza, M. Witko,
Institute of Catalysis and Surface Chemistry PAS, Krakow, Poland
“Photocatalysis in Space Exploration: Water Dissociation in the Moon Base.”
- 18⁰⁰ – 21⁰⁰ *Poster session and welcome party in the site of the ICSC*

Thursday, 2010.03.18

- 9⁰⁰ – 9³⁰ *Invited lecture:*
T. Ishikawa,
Ube Industries Ltd., Ube City, Japan
“Strong Photo-Catalytic Fiber and its Wide Application”
- 9³⁰ – 10⁰⁰ I. Kumakiri,
SINTEF Materials and Chemistry, Oslo, Norway
“Water Treatment with Catalytic Membrane Reactors”
- 10⁰⁰ – 10³⁰ S. Mozia, A. W. Morawski,
West Pomeranian University of Technology, Szczecin, Poland
“Photocatalytic Membrane Reactors (PMRs) in Water and Wastewater Treatment: Possibilities and Perspectives”
- 10³⁰ – 11⁰⁰ *Coffee break*
- 11⁰⁰ – 11³⁰ W. Macyk, J. Derdzińska,
Jagiellonian University, Krakow, Poland
„Determination of Spectral and Redox Properties of Heterogeneous Photocatalysts”
- 11³⁰ – 11⁵⁰ J. Kuncewicz, K. Szaciłowski, G. Stochel, W. Macyk,
Jagiellonian University, Krakow, Poland
“Photosensitization of Titanium Dioxide with Chromium(VI) Compounds – Mechanistic Studies”
- 11⁵⁰ – 12¹⁰ A. Zielińska-Jurek, M. Walicka, A. Tadajewska, A. Zaleska
Gdansk University of Technology, Gdansk, Poland
“Preparation of Ag/Cu-Doped Titanium (IV) Oxide Nanoparticles in w/o Microemulsion”
- 12¹⁰ – 12³⁰ M. Buchalska, W. Macyk
Jagiellonian University, Krakow, Poland,
“Photoactivity of Surface Modified Nanocrystalline TiO₂ in Degradation of Organic Pollutants”
- 12³⁰ - 12⁵⁰ D. Wodka, E. Bielańska, R. P. Socha, M. Elźbieciak, J. Gurgul, P. Nowak,
P. Warszyński, I. Kumakiri,
Institute of Catalysis and Surface Chemistry PAS, Krakow, Poland
„Photocatalytic Activity of Titanium Dioxide Modified by Silver Nanoparticles”
- 12⁵⁰ - 13¹⁰ J. Dziejcz, D. Wodka, P. Nowak, P. Warszyński, I. Kumakiri, C. Simon
Institute of Catalysis and Surface Chemistry PAS, Krakow, Poland
„Photocatalytic Degradation of the Humic Species as a Method of their Removal from Water”
- 13¹⁰ – 13²⁰ Closing of the seminar
- 13³⁰ *Lunch*

List of posters

- P1 E. Adamek, J. Ziemiańska, I. Lipska, A. Makowski, A. Sobczak, W. Baran
Medical University of Silesia, Sosnowiec, Poland
“Assessment of Radiant Flux Absorption by Irradiated Phase on the Kinetics of Photocatalytic Reactions”
- P2 T. Baran, W. Macyk
Jagiellonian University, Krakow, Poland
“Visible Light Induced Photocatalytic *versus* Photoassisted Oxidation of Volatile Air Pollutants”
- P3 W. Baran, J. Ziemiańska, E. Adamek, A. Sobczak, I. Lipska, A. Makowski
Medical University of Silesia, Sosnowiec, Poland
“The Study of Photocatalytic Degradation of Sulfonamides Applied to Municipal Wastewater”
- P4 P. Brożek, G. Suski, D. Dolat, A. W. Morawski
West Pomeranian University of Technology, Szczecin, Poland
“Water and Wastewater Treatment on Photocatalytic Pilot Plant”
- P5 J. C. Colmenares, Z. Karpiński, M. A. Aramendia, A. Marinas, J. M. Marinas, F. J. Urbano
Institute of Physical Chemistry PAS, Warszawa, Poland.
“Ultrasound-Assisted Synthesis of Nanostructured Metal-Supported Titania Photocatalysts and their Use in the Degradation of 3-Chloropyridine in Aqueous Solution”
- P6 A. Hänel, A. Zaleska, J. Hupka
Gdansk University of Technology, Gdansk, Poland
“Photocatalytic Activity of TiO₂ Immobilized on Glass Beads”
- P7 E. Grabowska, H. Remita, A. Zaleska,
Gdansk University of Technology, Gdansk, Poland
“Metal-Modified TiO₂ Nanoparticles: Characterization and Photoactivity”
- P8 J. Grzechulska-Damszel,
West Pomeranian University of Technology, Szczecin, Poland
“Application of Titania Coating as Photoactive Refill in the Reactor for Purification of Water Contaminated with Organics”
- P9 D. Kędracki, J. Dziejczak, K. Szczepanowicz, P. Nowak, L. Szyk-Warszyńska, P. Warszyński,
Institute of Catalysis and Surface Chemistry PAS, Jagiellonian University, Krakow, Poland
“Encapsulation of Oxidant Compounds in Application for Purification of Water”
- P10 Ł. Kowalczyk, M. I. Szyrkowska, E. Maćkiewicz, J. Góralski, T. Paryjczak,
Technical University of Lodz, Lodz, Poland
“Activity of Modified Titanium Catalysts in the Reaction of Photocatalytic Oxidation of Ammonia.”

- P11 I. Kumakiri, A. Karlsson, Ø. Vistad, J. Yang, J. Hafizovic, A. Bouzga
SINTEF Materials and Chemistry, Oslo, Norway
“High Throughput Evaluation for Photo-Catalytic Water Treatment”
- P12 I. Kumakiri, C. Simon, K. Szczepanowicz, D. Wodka, P. Nowak,
L. Szyk-Warszyńska, P. Warszyński
SINTEF Materials and Chemistry, Oslo, Norway
“Removal of Natural Organic Matters in Portable Water Using Photo-Catalytic Membrane Reactor”
- P13 R. P. Socha, P. Żurek, P. Nowak
Institute of Catalysis and Surface Chemistry PAS, Krakow, Poland
“Influence of Doping of TiO₂ with Transition Metal Ions on the Charge – Transfer at the TiO₂/Aqueous Electrolyte Interface”
- P14 E. Świątek, W. Macyk,
Jagiellonian University, Krakow, Poland
„Enantioselective Organic Synthesis on Surface-Modified Semiconductor Photocatalysts”
- P15 D. Wodka, P. Nowak, P. Warszyński, I. Kumakiri
Institute of Catalysis and Surface Chemistry PAS, Krakow, Poland
“Photocatalytic Membrane Methods of Removal of Organic Contaminants for Water Treatment – Preparation and Testing of the Photo – Catalyst”
- P16 W. Żmudziński,
University of Economics, Poznan, Poland
“Glucose Degradation by Photocatalysis on Titanium Dioxide”