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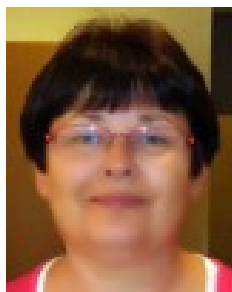
Invited speakers of ECOpole'14 Conference



Gerhard ERTL - the Nobel Prize Winner in Chemistry 2007

Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, DE

ELEMENTARY STEPS IN HETEROGENEOUS CATALYSIS: THE BASIS FOR ENVIRONMENTAL CHEMISTRY



Ágnes BÁLINT

Óbuda University, Institute of Environmental Engineering, Budapest, HU

MONITORING OF DIFFERENT HEAVY METALS IN SOIL/PLANT/WATER SYSTEMS



**Miroslav ČERNÍK¹, Jaroslav HRABAL²
and Martina VOTRUBOVA²**

¹*Technical University of Liberec, CZ*

²*MEGA, Straz p. Ralskem, CZ*

**CASE STUDY OF A COMBINED NANO-, BIO-
AND ELECTRIC REMEDIATION METHODS ON THE MARS SVRATKA SITE**



Marek JÓZWIAK

*Department of Environment Protection and Modelling
of the Jan Kochanowski University in Kielce, PL*

**BIOINDICATION AS CHALLENGE
IN MODERN ENVIRONMENTAL PROTECTION**



Pawel KAFARSKI

Wroclaw University of Technology and Opole University, PL

**HOW CAN WE USE SURVIVAL STRATEGIES OF ORGANISMS
TO DEVELOP NEW TECHNOLOGIES**

Short Conference Report

The Conference ECOpole'14 was held in 15-18.X.2014 in Hotel Ziemowit in Jarnoltówek, PL. It was the twenty third ecological conference of the series of meetings organised by the Society of Ecological Chemistry and Engineering, Opole, PL. 117 participants, including delegates representing following countries: Czech Republic, Germany, Great Britain, Hungary and Poland, took part in the event and presented 17 oral contributions and 107 posters.

The Abstracts of the Conference contributions were and are available on the Conference website

ecopole.uni.opole.pl

The Conference issue of the quarterly *Ecological Chemistry and Engineering S* containing among others Keynote Speakers papers, was distributed at the Conference Reception desk together with a CD-ROM (containing short info on Keynote Speakers, Abstracts of the Conference presentations as well as ECOpole'14 Conference Programme).

On Wednesday (15th October 2014) at 19.00 after a brief Opening Ceremony performed by prof. Maria Waławek, Chairperson of the Organising Committee and prof. Witold Waławek, Chairman of the Conference Scientific Board and President of the Society of Ecological Chemistry and Engineering, the participants were invited for the Musical Soirée by the String Quartet (Emilia Kos - violin, Agnieszka Newiger - violin, Małgorzata Rędzińska - viola and Barbara Kowalska - cello) of the Józef Elsner Philharmonic in Opole. The Programme contained works by Johannes Brahms, Jules Massenet, Wolfgang Amadeus Mozart, Modest Mussorgsky, Johann Strauss and also Carlos Gardel, Astor Piazzolla, Frank Sinatra and Ángel Villoldo. The audience applauded the players and claimed for encore.

The Conference Agenda was divided into 4 sections:

- SI Ecological Chemistry and Engineering
- SII Environment Friendly Production and Use of Energy
- SIII Forum of Young Scientists and Environmental Education
- SIV Health, Ecology and Agriculture.

On Thursday, 16th October 2014 at 9.00 a.m. **prof. Gerhard ERTL** (*Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin, DE*) - **the Nobel Prize Winner in Chemistry 2007** initiated the First Plenary Session with the invited lecture: *Elementary steps in heterogeneous catalysis: The basis for environmental chemistry*. During the conference the plenary lectures were also delivered by other invited lecturers: **Ágnes BÁLINT** (*Óbuda University, Institute of Environmental Engineering, Budapest, HU*): *Monitoring of different heavy metals in soil/plant/water systems*, **Miroslav ČERNÍK** (*Technical University of Liberec, Liberec, CZ*): *Case study of a combined nano-, bio- and electric remediation methods on the MARS Svatka site*, **Marek JÓZWIAK** (*Department of Environment Protection and Modelling of the Jan Kochanowski University in Kielce, PL*): *Bioindication as challenge in modern environmental protection*, **Paweł KAFARSKI** (*Wrocław University of Technology and Opole University, PL*): *How can we use survival strategies of organisms to develop new technologies*.

There were also presented very interesting lectures, eg by **P.P. WIECZOREK** (*Faculty of Chemistry, Opole University, Opole, PL*): *Solid phase extraction and liquid*

membranes as sample preparation methods in environmental analysis, **S. FRÄNZLE** (Zittau International School (Dresden Tech), Zittau, DE): *New features of chitin-based biomonitoring of metal ions/complexes and semi-metal toxicants in different speciation forms*, **T. OLSZOWSKI** (Chair of Thermal Engineering and Industrial Facilities, Opole University of Technology, Opole, PL): *Comparison of the effect of emissions from individual heating systems on the concentration of PM₁₀ in a rural area during extreme winter weather conditions* and **Z.A. SZYDŁO** (Highgate School, London, UK): *History of explosives* - this contribution was met with great interest of the audience.

Thursday, a day of hard work, was finished with the second Poster Session. Many of the discussions started at the posters, lasted until the evening hours.

As usually during the ECOpole Conferences, the second day included the Session of the Young Scientists (a forum of young scientists that present and discuss local ecological problems of their countries). During the Young Scientists' and Environmental Education Poster Session 30 posters were presented.

The Scientific Board: **Maria Waclawek** (Opole University, Opole, PL) - Chairperson, **Daniela Szaniawska** (Maritime University of Szczecin, Szczecin, PL), **Stefan Fränze** (IHI, Zittau, DE) and **Zbigniew A. Szydło** (Highgate School, London, UK)

granted awards (sponsored by the Society of Ecological Chemistry and Engineering) for the best presentations. The awards for oral presentations were given to: **Dariusz Popławski**, M. Sc., Eng. (Wrocław University of Technology, Wrocław, PL) for the lecture: **D. Popławski, D. Grzesiak, J. Hoffmann, K. Hoffmann, P. Falewicz**: *Evaluation of selected dolomites suitability for use as a filler in nitrogen fertilizers*; **Karina Snochowska**, M. Sc., Eng. (Lodz University of Technology, Łódź, PL), for the presentation: **K. Snochowska, M. Tylman, W. Kamiński**: *Ethanol recovery from low-concentration water solution using membrane contactors with ionic liquids*, **Michał Rybak**, M. Sc. (Adam Mickiewicz University, Poznań, PL) for the lecture: **M. Rybak, T. Joniak, T. Sobczyński**: *The monitoring of nitrogen and phosphorus content in without-flow lake during the time after elimination of wastewater inflow (Western Poland)*.

The awards for poster presentations were given to **Magdalena Koszalkowska**, M. Sc. (Opole University, Opole, PL) for the poster: **M. Koszalkowska, Ł. Kręcidło, T. Krzyśko-Lupicka**: *Decontamination of social area in food facility by using thyme essential oil*; **Martyna Blus**, M. Sc., Eng. (Lodz University of Technology, Łódź, PL) for the poster: **E. Tomczak, M. Blus**: *Study of the dynamics of dye's adsorption on natural porous deposits* and **Bartosz Ciorga**, M. Sc., Eng. (Poznań University of Life Sciences, Poznań, PL) for the poster: **B. Ciorga, M. Beszterda, E. Rusinek-Prystupa, A. Perczak, A. Waśkiewicz, P. Goliński**: *The presence of toxic trace metals in dried tea samples*.

On Saturday morning an excursion was organised to the Underground Tourist - Educational Route in the Old Uranium Mine in Kletno.

Closing the conference, prof., prof. Maria and Witold Waclawek made short recapitulation. In general, ECOpole'14 was focused on monitoring of the quality of natural environment, its effects on human life, environmental education as well as application of renewable sources of energy. They expressed gratitude to all participants for coming and taking active part in the Conference and thanked Sponsor (Ministry of Science and Higher Education, Warszawa, PL) as well as all Chairpersons of Sessions.

The organizers informed that the electronic version of the presented contributions (lecture or poster) could be published on the Conference website. They announced, that full texts of the presented papers will be published (after obtaining reviewers' positive opinions) in the successive issues of the journals *Ecological Chemistry and Engineering A* and *S* and they will be distributed to all participants. The Extended Abstracts of the presentations will be published in two subsequent issues of semi-annual *Proceedings of the ECOpole*.

At the end they invited all Colleagues to attend the ECOpole'15 Conference, which will be held in Hotel **Ziemowit in Jarnoltówek**, PL in the next October.

Maria Waclawek