

The European Association for Chemical and Molecular Sciences (EuCheMS) Division of Chemistry and the Environment (DCE)

EuCheMS DCE

11th EuCheMS DCE International Conference on Chemistry and the Environment

Toruń, Poland, September 9th to 12th, 2007

Chemistry, Environment & Human Activity in Civilization Development

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The conference on 'Chemistry, Environment & Human Activity in Civilization Development' was held at Nicolaus Copernicus University in Toruń, Poland in conjunction with the 50th Anniversary of the Polish Chemical Society Congress & Polish Association of Chemical Engineers, on September 9th to 12th, 2007. The official language of the 11th ICCE-DCE Conference was English.

The 11th EuCheMS DCE International Conference on Chemistry and the Environment was jointly organized by:

- Polish Chemical Society
- Polish Association of Chemical Engineers
- European Association for Chemical and Molecular Sciences, Division of Chemistry and the Environment
- Nicolaus Copernicus University
- Mayoralty of Torun City

Conference statistics:

- The conference was attended by more than 524 scientists representing 39 countries from Europe, North and South America, Asia as well as by delegates representing various national authorities, mostly dealing with environmental monitoring and environmental legislation.
- There were 25 plenary lectures, 30 section lectures, 20 oral communications in 2 parallel sessions, and some 353 posters, i.e. a total of 428 presentations. More than 150 students attended as well. Substantial financial support and sponsorship was provided so to keep registration costs to a minimum.
- 45 exhibitors displayed analytical instrumentation, chemical products and services, and publications.

The following events took place within the framework of the conference:

1. The Annual Meeting of the EuCheMS DCE 2007 took place on Saturday, 8th September 2007 (see p. 537).
2. Short courses were held on Sunday, 9th September 2007. They attracted more than 90 participants.
3. The Opening Ceremony of the conference was held in the Aula Magna of the Nicolaus Copernicus University on Sunday, September 9th. Prof. Dr. Richard Ernst, Nobel Prize Laureate, Swiss Federal Institute of Technology, Zurich, Switzerland, presented the Opening Address – *The role of science in civilization development and progress*.
4. Concert of the MultiCamerata, string quintet from Torun, in the St. John's Cathedral.
5. Kujawy-Pomaranian Barbecue Party near the Rubbens Hotel in Aysomice.
6. The International Scientific Committee, composed of the members of the EuCheMS DCE, selected the 5 best poster presentations from 63 submitted by young scientists for special awards (see below).
7. The main theme, 'Chemistry, Environment & Human Activity in Civilization Development', was presented in two parallel sessions. EuCheMS members and other internationally well-reputed scientists contributed as plenary and section lecturers:
 - Prof. Dr. Fritz Frimmel, University of Karlsruhe, Germany, *Water Chemistry – Mirror of Modern Civilization*
 - Prof. Dr. Uri Zoller, University of Haifa, Israel, *Science-Technology-Environment-Society Literacy for Sustainability: What should it take?*
 - Dr. Allan A. Jensen, FORCE Technology, Denmark, *Risk Assessment of Boron in Glass Wool Insulation*
 - Prof. Luciano Morselli, Bologna University, Italy, *Atmospheric Pollutants and Cultural Heritage Decay*
 - Prof. Ake Bergman, Stockholm University, Sweden, *The International Panel on Chemical Pollution (IPCP)*
 - Prof. Toomas Tenno with A. Selberg, University of Tartu, Estonia, *Evaluation of Environmental Impact of Oil Shale Mining and Processing by Monitoring of River Water Quality in North-Eastern Estonia*

- Prof. Panayotis A. Siskos, University of Athens, Greece, *Determination of the Concentration of Nitrous Oxide in the Atmosphere off The Athens Basin*
- Prof. Kiyokatsu Jinno, Toyohashi University of Technology, Japan, *Miniaturized Sample Preparation Needle: A versatile design for rapid analysis in environmental analysis*
- Prof. Mieczysław Jaroniec, Kent State University, USA, *Design and Synthesis of Polymer-Templated Mesoporous Organosilicas for Environmental Applications: Adsorption of heavy metal ions*
- Prof. Jerzy Leszczynski, Jackson State University, USA, *Computational Chemistry: Clean creative calculations*
- Prof. Hartmut Frank, University of Bayreuth, Germany, *Environmental and Analytical Chemistry for a Sustainable Future*
- Prof. Dr. Antonius Kettrup, Technical University of Munich, Germany, *Environmental Monitoring By Instrumental Analysis and Bioassay*
- Prof. Lucjan Pawłowski, Lublin University of Technology, Poland, *Sustainable Development in Nowadays Civilization*
- Prof. Andrius Marushka, Vytautas Magnus University, Kaunas, Lithuania, *Continuous Bed (monolithic) Stationary Phases for Capillary Format Separations: Current status and applications*
- Prof. Anton Amann, Innsbruck Medical University, Austria, *Detection of Lung Cancer by Analysis of Exhaled Breath*
- Prof. Adam Grochowalski, Krakow University of Technology, Poland, *Analytical aspects in the Determination of Toxic Persistent Organic Pollutants in Food and in the Environment*.

The conference offered nine poster sessions:

1. Bioaccumulation and monitoring of organic pollutants (77 presentations)
2. Modelling and chemometrics (18 presentations)
3. Environmental chemistry education (2 presentations)
4. Technologies in the environment in the context of green chemistry (19 presentations)
5. Water chemistry – Pollutants and analysis (69 presentations)
6. Atmospheric chemistry, air pollutants and analysis (26 presentations)
7. Soil pollutants, solid waste management (53 presentations)
8. Chemistry in cultural heritage protection (6 presentations)
9. Ecotoxicology, toxicology and xenobiotics (84 presentations)

The following five posters were awarded:

1. **Evaluation of Antioxidant Activity of Medicinal Plants by Means of HPLC**
Rasa Milasiene et al., Dept. of Chemistry, Vytautas Magnus University, Kaunas, Lithuania
2. **Classification of Base Oils and Refinery Semi-Products Using Principle Component Analysis and Neural Networks**
Andrzej Olejniczak et al., Chair of Nuclear and Radiation Chemistry, Faculty of Chemistry, Nicolaus Copernicus University, Toruń, Poland
3. **Application of Solid Phase Extraction in Ionic Liquids Enrichment from Water Samples**
Sylwia Studzińska et al., Department of Environmental Chemistry and Bioanalytics, Nicolaus Copernicus University, Faculty of Chemistry, Toruń, Poland
4. **Activated Sludge Based Bod-Sensor for Wastewater Analysis**
Siiri Velling et al., Institute of Physical Chemistry, University of Tartu, Tartu, Estonia
5. **Influence of Road Transport on the Content of the Platinum Group Elements in Atmospheric Waters**
Aleksandra Dubiella-Jackowska et al., Department of Analytical Chemistry, Chemical Faculty, Gdańsk University of Technology, Gdańsk, Poland