



NATO Advanced Research Workshop

Water Treatment Technologies for the Removal of High-Toxicity Pollutants

September 13-16, 2008
Kosice, Slovakia

NATO ARW Program

ARW No: 983181

LOCATION: Kosice, Slovakia
Best Western Teledom Hotel & Conference Center

DATES: 13-16 September, 2008

| Saturday September 13, 2008 | | |
|------------------------------------|--|--|
| 14:00 – 19:00 | ARRIVAL AND REGISTRATION Submission of manuscripts for review | |
| 20:00 | Welcome reception, Restaurant Villa Regia | |

| Sunday September 14, 2008 | | |
|----------------------------------|--|-------------------------|
| 08:30-09:00 | Welcome & Introduction to ARW M. Vaclavikova, K. Vitale I. Tunyi – Member of Presidium of the Slovak Academy of Sciences | |
| 09:00-10:20 | Chair: A. Vaseashta | |
| 09:00-9:40 | Climate change and drinking water quality in Former Yugoslav Republic of Macedonia | Kendrovski (FYROM) |
| 09:40-10:20 | Removal of arsenic from drinking water – Croatian experience | Sipos (Croatia) |
| 10:20-10:50 | Coffee break | |
| 10:50-12:10 | Chair: A. Mockovciakova | |
| 10:50-11:30 | Distribution and speciation of arsenic in groundwater in Eastern Croatia | Ujevic (Croatia) |
| 11:30-12:10 | Arsenic species isoformation – a key problem for water purification | Havezov (Bulgaria) |
| 12:10-14:00 | Lunch | |
| 14:00-17:00 | Chair: P. Lodewyckx | |
| 14:00-14:40 | Sorption of metal ions from aqueous solution on fixed-beds of iron-based adsorbents. | Matis (Greece) |
| 14:40-15:20 | Oxyanions in waste: occurrence, stabilisation, leaching. Relation to waste water treatment. | Vandecastelle (Belgium) |
| 15:20-17:00 | Poster session I + coffee refreshment Poster size: 80 cm (wide) x 120 cm (high) | |
| 17:00 | Chair: G. Gallios | |
| 17:00-17:40 | Origin of arsenic in drinking waters in west Backa, Serbia | Sokolova Dokic (Serbia) |
| 17:40-18:20 | Applications of Fe-nanomaterials in water treatment technologies | Vaclavikova (Slovakia) |
| 19:30 | Dinner: Restaurant Camelot | |



NATO Advanced Research Workshop

Water Treatment Technologies

for the Removal of High-Toxicity Pollutants

September 13-16, 2008
Kosice, Slovakia

| Monday September 15, 2008 | | |
|----------------------------------|--|--------------------------|
| 9:00-10:35 | Chair: K. Matis | |
| 9:00-9:15 | Research in Institute of Geotechnics SAS - Water treatment technologies | Mockovciakova (Slovakia) |
| 9:15-9:55 | Nanomaterials in Evaluating Chemical-Biological-Physical Integrity of Drinking Water. | Vaseashta (USA) |
| 9:55-10:35 | Removal of fission fragments and actinides from waters and wastewaters: A short review | Misaelides (Greece) |
| 10:35-11:00 | Coffee break | |
| 11:00-12:20 | Chair: A. Martins | |
| 11:00-11:40 | The use of activated carbon filtration for air pollution in waste water treatment facilities | Lodewyckx (Belgium) |
| 11:40-12:20 | Removal of organics (dyes) from water steams by electrochemical methods | Gallios (Greece) |
| 12:20-14:00 | Lunch | |
| 14:00-16:00 | Poster session II. | |
| 16:00-19:00 | Guided sightseeing tour (walking) – Historical center of Kosice, Wax museum | |
| 19:30 | Dinner- Hotel Teledom | |

| Tuesday September 16, 2008 | | |
|-----------------------------------|---|--|
| 9:00-10:20 | Chair: P. Misaelides | |
| 9:00-9:40 | Arsenic oxidation by membrane contactors | Criscuoli (Italy) |
| 9:40-10:20 | Wastewater treatment with integrated Membrane-Electroflotatiom method | Kagramanov (Russia) |
| 10:20-10:50 | Coffee break | |
| 10:50-12:20 | Chair: A. Criscuoli | |
| 10:50-11:30 | Process Modelling and Simulation for Heavy Metal Separation from Drinking Water | Martins (Portugal) |
| 11:30-12:10 | Estimation of mercury body burden from aquatic eco systems in women in Croatia | Holcer (Croatia) |
| 12:10-14:00 | Lunch | |
| | Chair: K. Vitale | |
| 14:00-14:40 | Risk assessment and water security | Stikova (FYROM) |
| 14:40-15:20 | Closing remarks | Vaclavikova (Slovakia) Vitale (Croatia) |