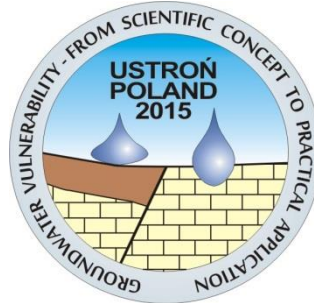




## INTERNATIONAL CONFERENCE

# Groundwater Vulnerability - From Scientific Concept to Practical Application



### CONFERENCE PROGRAMME

#### 25.05.2015 – Monday

- 14:00 – 20:00 – Registration  
16:00 – 20:00 – FEFLOW course  
20:00 – 22:00 – Welcome reception

#### 26.05.2015 – Tuesday

- 08:00 – 10:00 – Registration  
10:00 – 10:30 – Opening speech  
10:30 – 12:00 – Plenary session 1 (chair: John Chilton, Andrzej Kowalczyk)

**10:30 – 11:00** Current issues in groundwater vulnerability assessment and mapping - **Andrzej J. Witkowski**

**11:00 – 11:30** Groundwater Vulnerability Map of Poland based on time scale - **Stanisław Witczak, Anna Żurek, Robert Duda, Kazimierz Różański, Danuta Kubacka**

**11:30 – 12:00** Sensitivity and vulnerability to groundwater overexploitation by a 'pressure state impact' and process based approach – **Jean Beaujean, Jean-Michel Lemieux, René Therrien, Alain Dassargues, Serge Brouyère**

12:00 – 13:30 – Lunch

13:30 – 15:00 – Plenary session 2 (chair: Alain Dessargues, Bartolomeo Andreo)

**13:30 – 14:00** Karst vulnerability assessment and validation by quantitative tracer experiments – **Michael Sinreich, Alain Pochon**

**14:00 – 14:30** Preliminary proposal of guideline to delineate the protection zones of karst springs - **Ana I. Marin, Bartolomé Andreo.**

**14:30 – 15:00** A decision tree tool supporting assessment of groundwater vulnerability - **Przemysław Wachniew, Anna Żurek, Christine Stumpp, Alexandra Gemitzi, Alessandro Gargini, Maria Filippini, Kazimierz Różański, Jessica Meeks, Jens Kvarner, Stanisław Witczak**

15:00 – 15:20 – Coffee break

15:20 – 17:00 – *Groundwater vulnerability assessment in urbanised and heavily transformed mining areas* (chair: Przemysław Bukowski, Stanisław Staško)

<b>15:20 – 15:40</b>	Regional Scale Screening of Groundwater Pollution Risk induced by Historical Mining Activities in Serbia - <b>Nebojša Atanacković, Veselin Dragišić, Vladimir Živanović, Sunčica Ninković, Sava Magazinović</b>
<b>15:40 – 16:00</b>	Groundwater vulnerability assessment using comparison of premining and post mining conditions in the coal mining environment – <b>Katarina David, W. Timms, R. Mitra,</b>
<b>16:00 – 16:20</b>	The analysis of factors affecting the assessment of groundwater vulnerability to pollution with DRASTIC method within mining areas of the north – eastern part of the Upper Silesian Coal Basin on the basis of abandoned hardcoal mine “Grodziec” in Będzin (Poland) - <b>Sławomir Góra, Andrzej Szczepański, Przemysław Bukowski</b>
<b>16:20 – 16:40</b>	Groundwater system vulnerability to intensive dewatering – an example of deep mine from Lower Silesia (Poland) - <b>Stanisław Staško, Marek Wcisło, Jacek Gurwin</b>
<b>16:40 – 17:00</b>	Water hazard in underground mine as an important factor in the evaluation of groundwater vulnerability to pollutions in the USCB – <b>Przemysław Bukowski, Katarzyna Niedbalska, I. Augustyniak, Andrzej Haładus</b>

18:00 – 22:00 – Barbecue party

### **27.05.2015 – Wednesday**

08:30 – 17:30 – Conference Field Trip

18:00 – 19:00 – Dinner

19:00 – Visit to therapeutic centre

### **28.05.2015 – Thursday**

09:00 – 10:40 – *Development of the vulnerability concept* (chair: Daniela Ducci, Makoto Nishigaki)

<b>09:00 – 09:20</b>	Process based method for groundwater resource vulnerability mapping with regards to solute contamination at the surface - <b>Cristina Popescu, Serge Brouyère, Philippe Urban, Alain Dassargues</b>
<b>09:20 – 09:40</b>	Using statistical and geostatistical analyses for improving rating methods - <b>Daniela Ducci, Marco Masetti, M. Bonfanti, M. Sellerino, S. Stevenazzi</b>
<b>09:40 – 10:00</b>	Groundwater vulnerability assessment using 2D vertical groundwater flow models with contrast permeabilities - <b>K. Udo Weyer</b>
<b>10:00 – 10:20</b>	A.C.V.M. (Aquifer Comprehensive Vulnerability Mapping) a new method for evaluating coastal aquifer vulnerability - <b>Salvatore Carrubba, Matthew Lagod, Raya Stephan</b>
<b>10:20 – 10:40</b>	Groundwater Vulnerability Assessment in Cities with respect to Water-Sensitive Urban Design – <b>J. Urup, K. Bitsch, F. D. Christensen, K. Stefansen, A. Raben</b>

10:40 – 11:00 – Coffee break

11:00 – 12:40 – *Application and comparison of different methods of groundwater vulnerability assessment for different groundwater systems* (chair: James LaMoreaux, Manuela Lazagna)

11:00 – 11:20	Compared vulnerability assessment of the karst aquifer feeding Pertuso spring in Central Italy - <b>Giuseppe Sappa, F. Ferranti</b>
11:20 – 11:40	Groundwater vulnerability based on five different assessment methods in the Pliszka river catchment, western Poland - <b>Piotr Hermanowski, Tomasz Ignaszak</b>
11:40 – 12:00	Groundwater intrinsic vulnerability assessment under future climate change of shallow low-lying coastal aquifer in south Finland - <b>Samrit Luoma, Jarkko Okkonen, Kirsti Korkka-Niemi</b>
12:00 – 12:20	Age-based simulation methods for the assessment of groundwater vulnerability <b>Björn Kaiser, DHI Wasy</b>

12:20 – 13:40 – Lunch

13:40 – 15:20 – *Groundwater vulnerability and groundwater pollution risk* (chair: Ewa Krogulec, Giuseppe Sappa)

13:40 – 14:00	Localization of “High-Risk to Perchlorate Contamination” groundwater resources into mainland France - <b>Benjamin Lopez, Alexandre Brugeron, Nicolas Devau, Patrick Ollivier</b>
14:00 – 14:20	Numerical Simulation of Aquifer Vulnerability to Methane Gas Leakage from Decommissioned Shale Gas Wells - <b>N. Roy, John Molson, Jean-Michel Lemieux</b>
14:20 – 14:40	Pressures and impacts on the quality of Groundwater in accordance to the WFD implementation: the Guadeloupe case study - <b>Alexandre Brugeron, Benjamin Lopez, Nicolas Surdyk, Stéphanie Pinson, Laure Ducreux</b>
14:40 – 15:00	Mathematical modelling of experimental data in groundwater pollution risk assessment, an example from the landfill sites in Strzemieszyce, Poland - <b>Marek Sołtysiak, Dominika Dąbrowska, Konrad Jałowiecki</b>
15:00 – 15:20	Application of the HOBAS materials in hydrogeological research - <b>Marek Mathea</b>

15:20 – 15:40 – Coffee break

15:40 – 17:20 – *Groundwater vulnerability assessment for karstic areas* (chair: Peter Malík, Jacek Rózkowski)

15:40 – 16:00	Karst groundwater vulnerability assessment with the help of geophysical techniques, Gömör-Torna Karst, Hungary and Slovakia - <b>Veronika Iván, Ilma Balázs, Tibor Mátrahalmi, Judit Mádl-Szőnyi, Péter Gruber</b>
16:00 – 16:20	Mean transit time estimations from $\delta^{18}\text{O}$ values as groundwater vulnerability indicator in karst-fissure aquifers - <b>Peter Malík, Jaromír Švasta, Juraj Michalko, Miloš Gregor</b>
16:20 – 16:40	Some examples of human impacts on karst aquifers of Albania - <b>Romeo Eftimi, Hans Zojer</b>
16:40 – 17:00	Assessment of the intrinsic vulnerability of the limestone aquifers of the Rhine-Meuse basin - <b>Vincent Fister, Benoît Losson, Didier François, Emmanuel Gille, Magali Marchetto</b>
17:00 – 17:20	Time dependent vulnerability assessment model for karst groundwater protection - <b>Vladimir Živanović, Igor Jemcov, Veselin Dragišić, Nebojša Atanackovi, Sava Magazinović</b>

17:20 – 18:30 – Poster session  
18:30 – 19:00 – IAH meeting  
20:00 – 24:00 – Conference banquet

## 29.05.2015 – Friday

09:00 – 10:40 – *Groundwater vulnerability to nitrate pollution* (chair: Birgitte Hansen, Domenico De Luca)

<b>09:00 – 09:20</b>	Groundwater mapping, geological and hydrological modelling: prerequisites for vulnerability assessments in Denmark - <b>F. Jørgensen, T.O. Sonnenborg, Anne-Sophie Høyer, P.B. Sandersen, B.H. Hansen</b>
<b>09:20 – 09:40</b>	A Site-specific Concept for Assessment of Nitrate Vulnerability of aquifers in Denmark - <b>Birgitte Hansen, Flemming Jørgensen, Anne-Sophie Høyer, P. Sandersen, T. Sonnenborg</b>
<b>09:40 – 10:00</b>	The role of physical and biological processes in aquifer and their importance on groundwater vulnerability to nitrate pollution - <b>Manuela Lasagna, Domenico Antonio De Luca, Elisa Franchino</b>
<b>10:00 – 10:20</b>	Intrinsic groundwater vulnerability assessment: comparison of different methodologies and correlation with nitrate concentrations – <b>Elisa Franchino, Manuela Lasagna, A. Bucci, Domenico Antonio De Luca</b>
<b>10:20 – 10:40</b>	Regression models to assess groundwater vulnerability: from experimental to regional scale - <b>Merce Boy-Roura, B.T.Nolan, A.Menció, J.Mas-Pla, K.Cameron, H. Di</b>

10:40 – 11:00 – Coffee break

11:00 – 11:40 – *Vulnerability maps in practical land-use management* (chair: John Molson, K. Udo Weyer)

<b>11:00 – 11:20</b>	Irish Groundwater Vulnerability Mapping and Groundwater Protection Scheme Programme: Past, Present and Future - <b>Monica Lee, Natalya Hunter Williams, Caoimhe Hickey, Coran Kelly, Robert Meehan</b>
<b>11:20 – 11:40</b>	Practical Examples of Groundwater Vulnerability Mapping and Assessment in Sedimentary and Limestone Geology - <b>Bibi Neuman Gondwe, K. Bitsch, N. Richardt, K. C. Hansen, P. Thomsen, M. R. Nielsen, A. Raben</b>

11:40 – 12:00 – Closing words

12:30 – 14:00 – Lunch