



SECOND CIRCULAR



Framework and objectives of the conference

The European Commission has lead a groundwater experts group (**Working Group C – WGC**) composed of Member States and stakeholder representatives since 2002; the main aims and objectives of which are to ensure exchanges in support of the implementation of the **Water Framework Directive 2000/60/EC (WFD)** and of the new **Groundwater Directive 2006/118/EC (GWD)**.

The autumn 2008 plenary session of the WGC, organised under the auspices of the French EU Presidency, coincides with some important milestones in the WFD and GWD. By the end of 2008 Member States will have had to define **threshold values** for groundwater bodies and by 2009 published the River Basin Management Plans (RBMP). The RBMP will include an initial assessment of the “**good chemical and quantitative status**” of the groundwater bodies as well as a **programme of measures** to achieve the objectives of the WFD.

Latterly WGC’s activities and related technical guidelines, have highlighted a significant dearth of knowledge within the field (chemical and quantitative relationships with surface water and terrestrial ecosystems, the transfer and time scale of pollutants, cost-efficiency assessment, climate change, etc.) which represents a genuine obstacle in terms of the effective implementation of the WFD and GWD. Consequently, communication and interaction between **science and policy** remain a priority to thus enable successful implementation of the WFD/GWD.

The **Paris 2008 Groundwater Conference** aims to bring together the different communities involved in the implementation of the WFD/GWD (national and European policy makers, scientists and stakeholders) as well as experts interested in issues surrounding groundwater integrated management. On the eve of the publication of the River Basin Management Plans, this conference offers a forum that seeks to encourage the sharing of experiences on this particular question.

Targeted audience

Experts from administrative bodies (governmental and local authorities), hydrogeologists, stakeholder representatives and the scientific community

Conference languages

Official languages of the conference are **ENGLISH** and **FRENCH**. Simultaneous translation will be provided during the conference

Commentary during the **field trip** will be displayed in both languages.

Preliminary programme of oral communications

DAY 1 – THURSDAY 13 NOVEMBER

13:00 Welcome and registration

13:30 Opening ceremony (UNESCO, French Ministry of Ecology, European Commission)

Session 1 - Groundwater bodies chemical and quantitative status assessment

14:00 Johannes GRATH (Federal Environment Agency, Austria)
Assessment of groundwater chemical status and trends

14:30 Robert WARD, Vivien FITZSIMONS (Environment Agency, UK)
Assessment of groundwater quantitative status

15:00 Mario CARERE (Istituto Superiore di Sanità Italy)
The European "Environmental Quality Standards (EQS)" for surface water bodies: a link with groundwater chemical status assessment

15:25 Short overview of the case studies presented in the poster session

15:30 Poster session and coffee break

16:15 Felip Josep ORTUÑO-GOBERN (Agència Catalana de l'Aigua, Spain)
The quantitative and chemical status of groundwater bodies in Catalonia: state of the art on the implementation of the WFD and groundwater directive

16:45 Hans Peter BROERS (TNO, Netherlands), Andreas SCHEIDLEDER (Federal Environment Agency, Austria)
Assessing and aggregating trends in groundwater bodies. Examples of various European groundwater bodies

17:30 End of session

20:00 Gala Diner – Restaurant "Au Grand Louvre"
(Musée du Louvre, 75001 Paris)

DAY 2 – FRIDAY 14 NOVEMBER

Session 2 - Programmes of measures and risk assessment

09:00 Philippe QUEVAUVILLER (European Commission Belgium)
European regulatory framework of integrated groundwater management. Theory versus realities

09:20 Dominique GATEL (EUREAU)
Management of groundwater bodies used for drinking water supply under the WFD requirements. The view of the European Federation of National Associations of Water and Waste Water Services

09:35 Y. MOREAU-GOLVAN (KWB, Germany), B. DAVID (Veolia)
Challenges and opportunities of Managed Aquifer Recharge from an operator's point of view

09:50 Claire GRISEZ (Ministry of Ecology, France)
Programmes of measures and diffuse pollutions in groundwater. General types of measures and case studies

10:25 Short overview of the session steps

10:30 Poster session and coffee break

11:15 To be confirmed
Protecting groundwater against point source pollution

11:45 Award ceremony of the IAH French chapter (CFH)

12:15 Lunch break

5 to 10 minutes are reserved for questions after each talk



Session 3 - Science and policy interface: how science supports groundwater management

13:45 To be confirmed

14:15 Bjørn KLOVE (University of Oulu, Finland)
GENESIS, an integrated research project to support groundwater systems management

14:45 Mette DAHL (GEUS, Denmark)
GSI typology - Typology of Groundwater / Surface water Interaction

15:15 Short overview of the session reports

15:20 Poster session and coffee break

16:00: Nicolas BARAN (BRGM, France)
Knowing the transfer time of solutes to manage better the groundwater bodies. Example of the Loire-Bretagne river district

16:30 To be confirmed

16:45 Maria J. GARCIA-GALAN (IEAWR, Spain)
Occurrence of sulfonamide antibiotics in two groundwater bodies of Catalonia (Spain)

17:00 Round table and closing ceremony (UNESCO, European Commission, French Ministry of Ecology, Euro geo surveys, IGRAC, IAH)

17:45 End of the conference

18:00 General assembly of the IAH French chapter

Field trip

DAY 3 – SATURDAY 15 NOVEMBER

08:00 Departure by bus from UNESCO (Avenue de Suffren 75015)

10:00-12:00

Presentation and visit of the SUEZ – LYONNAISE DES EAUX groundwater artificial recharge site (Le Pecq-Croissy Velizy).



Aquifer artificial recharge is one of the measures implemented to reduce the impact of the over-exploitation of groundwater bodies. Treated water from the Seine is artificially injected into the alluvium/chalk groundwater bodies of the Seine Valley. After a presentation of the concept of artificial recharge followed by the particular characteristics of the pilot project, participants will be able to discover the water treatment plant for themselves.

12:00-14:30 Lunch break and transfer to Versailles by bus

14:30-16:30 The fountains in Versailles. Water management at the time of King Louis XIV and today



Participants will be able to visit the outstanding achievement of Louis XIV's engineers, who, at his request, installed a series of fountains and fountains within the royal garden at Versailles. The water supply systems, most of which still exist today, are no longer entirely managed by the castle and its park. Instead a different system for collecting rainwater has been set up on the site, which means the fountains function for 6 or 7 months of the year exactly as King Louis XIV would have enjoyed them at the end of his reign. The ecological management of Versailles's ornamental lakes and its waters has been achieved with the aim of collecting a maximum volume of water without it being discharged into the sewers.

18:30 End of the day and drop off to UNESCO

Direct transfer from Versailles to airports and railways stations is possible by train (RER C). Contact the conference secretariat for further details.

Poster sessions

DAY 1 – THURSDAY 13 NOVEMBER

Session 1 - Groundwater bodies chemical and quantitative status assessment

- M. ANDJELOV (Environment Agency, Slovenia), *Slovenian groundwater quantitative status in the period 1990-2006*
- F. BROWN (Environment Agency, UK), *Water Framework Directive: Case Study – classifying groundwater impact on surface water status*
- M. CARERE (National Institute of Health, Italy), *Towards an Italian approach for the derivation of groundwater threshold values*
- M. DOBNIKAR-TEHOVNIK (Environment Agency, Slovenia), *Influence of the data aggregation method on the chemical status of groundwater bodies*
- C. GARNIER (Seine-Normandie Water Agency, France), *Chemical status assessment of a multilayers groundwater body (Champigny limestones, France)*
- K. HINSBY (GEUS, Denmark), *The challenge of deriving threshold values and background levels for groundwater in Denmark*
- O. JOHANSSON (Swedish Geological Survey, Sweden), *Characterisation of groundwater chemistry in Sweden based on geographic region and environmental factors*
- E. KARRO (University of Tartu, Estonia), *Derivation of threshold values for naturally F- and B-rich Silurian-Ordovician groundwater body, Estonia*
- R.L. LIESTE (RIVM, Netherlands), *Conceptual Models of Groundwater systems. Definition, example and availability in the Netherlands*
- E. NEDVEDOVA (Ministry of Environment, Czech Republic), *Chemical Status Assessment of Groundwater Bodies in the Czech Republic*
- E. PREZIOSI (IRSA-CNR, Italy), *Threshold values establishment for groundwater bodies where natural contamination occurs: a methodological case study in Central Italy*
- L. RAZOWSKA-JAWOREK (Polish Geological Institute, Poland), *Quantitative status of groundwater bodies in the Upper Silesian Region in Poland*
- A. ROSCA (Banat Water Directorate, Romania), *Natural background values and threshold values required by the Groundwater Directive, applicable for Banat hydrographical area*

A. ROTARU (INHGA, Romania), *Upgrade of the Romanian Monitoring Network according to the WFD requirements. How the European guidances were applied and what future changes are needed. Some examples*

W. VERWEIJ (RIVM, Netherlands), *Threshold values: the Dutch approach*

T. WALTER (Ladesamt für Umwelt- und Arbeitsschutz, Germany), *Determining Natural Background Values with Probability Plots*

R. WARD (Environment Agency, UK), *Water Framework Directive: Groundwater Resources - risk characterisation to classification*

R. WARD (Environment Agency, UK), *Water Framework Directive: Groundwater Quality - risk characterisation to classification*

R. WOLTER (Federal Environment Agency, Germany), *Implementation of the Groundwater Directive in Germany*

DAY 2 – FRIDAY 14 NOVEMBER

Session 2 - Programme of measures and risk assessment

- B. BRACIC ZELEZNIC (Public Water Utility of Ljubljana, Slovenia), *Management of drinking water in city of Ljubljana, Slovenia*
- B. CENCUR CURK (IRGO - Institute for Mining, Slovenia), *Spatial decision support system (SDSS) as a tool for integrated groundwater resources management*
- D. CUPIC (Croatian Waters, Croatia), *Potential pressures and impacts of Economic activities in accordance with the WFD*
- H.G.M. EGGENKAMP (Technical University of Lisbon, Portugal), *Protection of mineral water resources, a case study from Northern Portugal*
- P. GOMBERT (INERIS, France), *Hydrodynamical and physicochemical perturbations of superficial and underground waters due to mining abandonment*
- R. MACALET (INHGA, Romania), *The monitoring of the groundwater body at risk from point of view of oil products and applying of the remediation techniques*
- J. NAVRATIL (University of Defense, Czech Republic), *Hazard sources identification and contamination assessment of ground waters usable for emergency water supply of population*
- J.S. SAMRA (National Rafted Area Authority, India), *Integrating groundwater science into management decisions: the Indian scenario*
- J.-F. VERNOUX (BRGM, France), *Delineation of groundwater protection areas against diffuse pollution*
- M. ZIJP (RIVM, Netherlands), *Overview on WFD-objectives for groundwater*

Session 3 - Science and policy interface: how science supports groundwater management

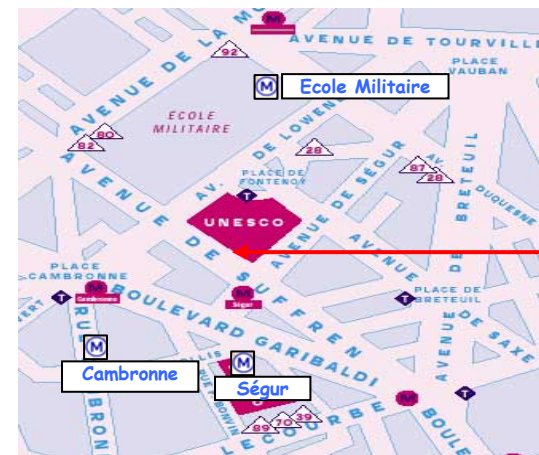
- L. BOUMAIZA (Université Québec à Chicoutimi, Canada), *The groundwater flow simulation in the river Valin paleodelta*
- M. BUSSETTINI (for Environmental Protection and Research Agency), *Water reference framework for Italy in order to implement the European directives 2000/60/CE and 2006/118/CE - First results*
- W.J. DE LANGE (Delft, Netherlands), *WISE-RTD: Transfer of science results, technologies and practices into water policy implementation*
- E. GILLI (Université Paris 8, France), *Regional groundwater balance and submarine springs. Examples in South-eastern France*
- J. GRIMA (IGME, Spain), *Statistical procedures for trend analysis. Application to small data sets*
- B. HANSEN (GEUS, Denmark), *Proficiency tests of Danish groundwater sampling*
- F. HUNEAU (Université Bordeaux 1, France), *Groundwater vulnerability assessment in carbonate aquifers of semi-mountainous areas, case study from the French Western Pyrenees*
- C. INNOCENT (BRGM, France), *Constraining the residence time of groundwaters using short-lived U isotopes: the Trias aquifer (Paris Basin, France) and the Mid-Eocene aquifer (Aquitain Basin, France)*
- H. PAUWELS (BRGM, France), *Emerging substances in groundwater: detection and fate of manufactured nanoparticles*
- E. PETELET-GIRAUD (BRGM, France), *Characterisation of groundwater systems: How to choose the isotope tool to answer a question? Application to the Eocene sands aquifer water body (SW France); CARISMEAU project*
- E. PETELET-GIRAUD (BRGM, France), *Improving the management of nitrate pollution in water in the Alsace Plain (France/Germany) through isotopic monitoring: ISONITRATE Life Demonstration Project*
- J.A. LUQUE-ESPINAR (IGME, Spain), *Influence of climatic cycles in the trend of the time series*
- J. MARQUES (IST/CEPGIST, Portugal), *How to evaluate the impact of snowmelt as a source of hydromineral resources at a high mountain area (Serra da Estrela, Central Portugal)*
- D. WIDORY (BRGM, France), *How isotopic monitoring can improve management of nitrate pollution in water: ISONITRATE Life Demonstration Project*

Venue

The conference is held at UNESCO Headquarters. UNESCO has two sites. This conference takes place in the Fontaine de la Vierge building (Rothschild), the entrance of which is located on **avenue de Suffren**.



For security reasons, participants will be asked to present their **passport or identity card**.



**UNESCO main building
Avenue de Suffren
75015, Paris**

To facilitate your access, you can prepare your own route map on www.ratp.fr

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Sponsors



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Registration form to be returned completed to the conference secretariat by **October 20th 2008**

Title... Sur ame....
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REGISTRATION FEES

Please tick appropriate box(es)

Conference	50€	
Field trip	50€	
Conference diner	Free -By kid imitatio n o f the Fr eeh Miistr y o f Eco lo gy	
TOTAL		

- I enclose a cheque made payable to the « Comité Français d'Hydrogéologie » (CFH)
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