

Background and Objectives

Presently, 1.1 billion people lack access to improved water supply and 2.6 billion to improved sanitation. Inadequate water supply and sanitation are responsible for the vicious circle of poverty and ill-health.

The United Nations have declared 2008 as the International Year of Sanitation (IYS) to raise awareness for the global sanitation crisis which presents one of the major obstacles to human development in many developing countries.

BGR, as the German implementation agency for development cooperation in the groundwater sector, addresses sanitation issues in many projects from the perspective of groundwater protection. Lacking or insufficient sanitation facilities threaten the quality of groundwater resources which provide drinking water to many people. The IYS offers a unique opportunity to highlight the immense problems of groundwater pollution due to lacking or inadequate sanitation facilities in developing countries. As groundwater is worldwide the major source of drinking water supply, especially in arid regions, the protection of groundwater resources from pollution is a key element of sustainable human development.

The symposium will focus on applicable solutions for the protection of groundwater against anthropogenic domestic effluents in the context of developing countries. It will address the gap between technical approaches and political challenges and provide a forum for exchange between practitioners of development cooperation, technical and scientific specialists and representatives of political institutions who are committed to substantive support for improved sanitation and groundwater protection. This will contribute to the international efforts for improving sustainable sanitation and groundwater protection practises in future.

The symposium will therefore discuss technical and scientific approaches to improved sanitation and groundwater protection within a political framework.



Tentative Programme

Tue 14.10.2008

- 17:00 Registration
- 19:00 Ice Breaker

Wed 15.10.2008

09:00 Welcome by the hosts

Hans-Joachim Kümpel, (BGR)
Thomas Himmelsbach (BGR)
Christoph Merdes (BMZ)
Bernd Strauch (City of Hannover)

09:30 Keynotes: Links between groundwater protection and sanitation

- Stephen Foster (World Bank GW-MATE & IAH)
Urban water supply security in the developing world – groundwater use trends and the sanitation nexus
- Perry McCarty (Stanford University)
The insidious nature of groundwater contamination – the great need for protection
- Oliver Schmoll (WHO & UBA)

11:00 Statements: International efforts for sustainable sanitation and groundwater protection.

Salif Diop (UNEP)
Bruce Gordon (WHO)
Darren Saywell (IWA & SuSanA)

12:30 Lunch + Opening of Market of Opportunities and Poster Exhibition

14:30 Session I: Sanitation concepts and their relevance for groundwater protection

- Elisabeth von Münch (GTZ)
Overview of anaerobic treatment options for sustainable sanitation systems
- Arno Rosemarin (SEI)
Overview on dry sanitation concepts including handling and storage of urine
- Yousra Ben Salah & Khaled Mehrez (DGRE/ONAS; KfW)
Contribution of wastewater treatment to groundwater protection - experiences in Tunisia
- Mirko Hänel (TTZ)
Sustainable and safe application of sludge and wastewater in Short-Rotation-Plantations
- Stefan Reuter (BORDA)
DEWAT systems and stakeholder involvement: Lessons learnt from a national community based sanitation programme
- Ralf Otterpohl (TUHH)
Constructed wetlands as a component of integrated rural and peri-urban development

17:00 Panel discussion with the presenters of Session I

Thu 16.10.2008

09:00 Session II: Approaches covering sustainable sanitation and groundwater protection

- Ali Subah (MWI) & Ariane Borgstedt (BGR)
Groundwater protection and sanitation – practical experiences in Jordan
- Thomas Nuber (University of Bochum)
Challenges of Groundwater Management in the Mekong Delta, Vietnam
- Bassim Abassi (Al-Balqua Uni) & Leif Wolf (University of Karlsruhe)
Integrated assessment of sanitation aspects and groundwater management at the Lower Jordan River within the SMART-research project
- Chris Shisanya (Kenyatta University)
Mainstreaming sanitation into planning and implementation of integrated watershed management measures in Kenya
- Thomas Levin (GTZ)
Groundwater protection through improved wastewater management in Kafr El Sheikh, Egypt

11:30 Panel discussion with the presenters of Session II

12:30 Lunch + Market of Opportunities and Poster Exhibition

16:00 High level panel: Coupling Sustainable Sanitation and Groundwater Protection: What is done to make progress in this field?

Salif Diop (UNEP)
Bruce Gordon (WHO)
Uschi Eid (UNSGAB)
Christoph Merdes (BMZ)
Wilhelm Struckmeier (BGR / IAH)

18:00 Closing procedure

Fri 17.10.2008

- 09:00 Field trip (sanitation technologies and groundwater protection near Braunschweig)

More information is available on the homepage www.bgr.bund.de/EN/symposium2008.

The symposium is financially supported by BMZ



Target Groups

The symposium addresses the following target groups:

- ☑ political decision makers with concern for resources protection, sanitation, and health,
- ☑ implementing organisations in the field of sanitation,
- ☑ groundwater specialists.

The convenors especially invite stakeholders from developing countries.

Convenors / Co-Sponsors

BGR is the German implementation agency for development cooperation in the groundwater sector. BGR is part of the Sustainable Sanitation Alliance (SuSanA), a network of about 50 international partners for the promotion of sustainable sanitation solutions.

The Federal Ministry for Economic Cooperation and Development (BMZ) draws up the German government's development policy guidelines. It lays down the long-term development cooperation strategies and defines the rules by which they are put into practice.

UNEP is one of the UN agencies that implements activities at regional and national level in water supply and sanitation, including groundwater resources management and protection.

Since its inception, WHO has defined sanitation as vital to global health. Today, WHO continues to help its member states improve sanitation status, and to promote policies and actions that expand access to this basic service.

Registration

- download the pdf-registration form from: www.bgr.bund.de/EN/symposium2008
- fill out and send the registration form via e-mail or fax.

Registration deadline: **31. August 08**

Contact

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General Information

The language of the symposium will be English. No translation will be available.

A fee of 180€ will be charged for participation, 120€ for students (evidence required). For a limited number of participants from low income developing countries, conference fees will be waived and travel expenses may partly be reimbursed on request and prior confirmation.

A limited number of rooms in selected hotels with special rates are available for booking at the website.

Venue

The symposium will take place in BGR's headquarter in Hannover, Germany.



— Stadtbahnlinie / Tram line U3
— 1 Stadtbahn- und Bushaltestelle / Tram and bus stop Lahe

Ab Hauptbahnhof Stadtbahnlinie U3 Richtung **Altwarmbüchen** bis Lahe, Buslinie 127 oder 133 bis Haltestelle **Pappelwiese/Geozentrum**

— Buslinie / Bus line 127 133
— 2 Bushaltestelle / Bus stop Pappelwiese/Geozentrum

From main railway station, take tram no. U3 direction **Altwarmbüchen** to Lahe, and then bus 127 or 133, bus stop **Pappelwiese/Geozentrum**



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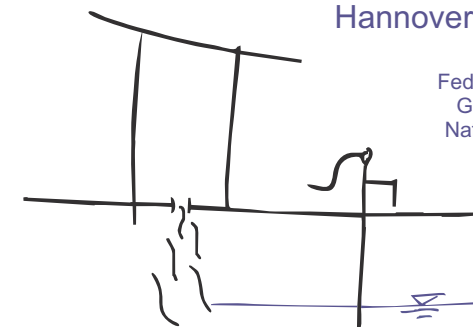
International Symposium

Coupling Sustainable Sanitation & Groundwater Protection

Third Circular

14. - 17. October 2008
Hannover, Germany

Federal Institute for
Geosciences and
Natural Resources
(BGR)



Convenors



Bundesanstalt für
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und Rohstoffe



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GEOZENTRUM HANNOVER

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World Health
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UNEP

Supporting Organisations

