

ecosan – newsletter - No. 27 - 02/2008 - english



This regular electronic news bulletin from the ecosan programme of gtz, Germany, addresses a network of friends and professionals involved in initiatives and projects in the field of closed-loop wastewater management and sanitation.

Dear friends and colleagues!

Welcome to gtz's ecosan newsletter issue no. 27!

The latest editions of the English version are distributed directly via e-mail in the globally readable, text-only format. You can also download German, French, Spanish, English and Chinese versions as easy-to-read pdf files from our web-site.

!!! Downloads:

German: <http://www.gtz.de/de/dokumente/de-ecosan-nl27-2007.pdf>

Spanish: <http://www.gtz.de/de/dokumente/es-ecosan-nl27-2007.pdf>

French: <http://www.gtz.de/de/dokumente/fr-ecosan-nl27-2007.pdf>

English: <http://www.gtz.de/de/dokumente/en-ecosan-nl27-2007.pdf>

Chinese*: <http://www.gtz.de/de/dokumente/cn-ecosan-nl27-2007.pdf>

* For organisational reasons, the Chinese version is published later than the others.

Your ecosan team hopes you enjoy the current issue!

Your contributions

This medium lives through interaction. So please keep sending your suggestions, requests and information to be published via this newsletter to the addresses at the end of this issue. Thank you in advance for any contribution!



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 - Global costs of attaining the MDG for water supply and sanitation
 - Innovative water concepts - service water use in buildings
 - Greening sanitation systems: an end-user perspective
- New on the net**
 - Collection of publications on appropriate technology now available on-line
- Capacity Development Tools**
 - Version 2.2 of the ecosan curriculum CD-ROM now available

- Trainings and Courses**
- Worldwide Internet training course “fundamentals and applications of ecosan” 31st March - 19th July 2008
 - India: Ecological sanitation - a need of today 12th - 24th May 2008
 - Norway: Sustainable sanitation - decentralized, natural and ecological wastewater treatment, 2nd - 27th June 2008
 - Sweden: Advanced International Training Programme (ITP) in Ecological Sanitation 2008/2009, Stockholm
- Events – new**
- 14/03/2008 Architecture and Environment - Towards symbiosis, Germany
 - 02-03/04/08 VizMin Sanitation Summit, Dumaguete City, Philippines
 - 02-04/06/08 4th Int. Conference on Waste Management & Environment, Granada, Spain
 - 25-27/06/08 IAMO forum: agri-food business global challenges, Halle (Saale), Germany
 - 13-15/10/08 Moving organic waste recycling towards resource management and bio based economy, Wageningen, The Netherlands
 - 14-17/10/08 International symposium: Coupling sustainable sanitation and groundwater protection, Hannover, Germany
 - 04-06/10/08 World Toilet Summit and Expo, Macau, China
 - 17-20/11/08 Second Int. Symposium on Energy from Biomass & Waste, Venice, Italy
- Events - Reminder**
- 01-03/04/08 Asia water, Kuala Lumpur, Malasia
 - 02-03/04⁰⁸ First Symposium on Wastewater Reclamation and Reuse, Birzeit, Palestine
 - 07-11/04/08 33rd WEDC international conference / access to sanitation and safe water: global partnerships and local actions, Accra, Ghana
 - 05-09/05/08 15th International Trade Fair for Water and sewage (IFAT), Munich, Germany
 - 19-21/05/08 7th international conference on environmental problems in coastal regions, New Forest, UK
 - 19-21/05/08 IWA Conference Sanitation Challenge, Wageningen, The Netherlands
 - 28-30/05/08 Environmental economics 2008: 2nd international conference on environmental economics and investment assessment, Cadiz, Spain
 - 28-30/05/08 Water and sanitation in international development and disaster relief, Edinburgh, Scotland, UK
 - 11-13/06/08 Sustainable irrigation 2008: 2nd international conference on sustainable irrigation management, technologies and policies, Alicante, Spain
 - 11-14/09/08 EXPO Saragossa 2008: water for sustainable development, Zaragoza, Spain
 - 23-25/06/08 Eco-Architecture 2008, Algarve, Portugal
 - 24-26/06/08 Design & Nature, Algarve, Portugal
 - 23-27/06/08 SIDISA - International Symposium on Sanitary and environment engineering, Firenze, Italy
 - 06-09/07/08 1st international conference on sustainable biosystems, Perth, Australia
 - 17-23/08/08 World Water Week, Stockholm, Sweden
 - 31/08-05/09/08 11th international conference on urban drainage, Edinburgh, UK
 - 01-04/09/08 13th IWRA world water congress 2008, Montpellier, France
 - 07-12/09/08 IWA world water congress and exhibition 2008, Vienna, Austria
 - 08-10/09/08 IASTED International conference on water resource management in Africa Gaborone, Botswana
 - 24-26/09/08 International conference on sustainable sanitation in Africa/NETSSAF final conference, Ouagadougou, Burkina Faso
 - 03-05/09/08 Sustainable Tourism 2008, Malta
 - 01-07/11/08 11th international conference on wetland systems technology or water pollution control, Indore, India
 - 15-22/03/09 5th world water forum, Istanbul, Turkey
 - 01/05-31/10/10 World EXPO 2010, Shanghai, China

In-house news

Changes in the GTZ ecosan team

We are pleased to welcome the following new colleagues and interns to the gtz ecosan team:

- **Christian Olt** is a civil engineer (Dipl.-Ing. FH) who, following his internship in a water supply project in Kayseri (Turkey), and carrying out his thesis work in a planning office in Paris (France), worked for 7 years in an engineering office for office and bridge construction in Frankfurt. During this period he also worked as a consultant in Holland and China. 2 years ago he began a course in "water and environment" at the Bauhaus University Weimar in parallel to his work and will soon begin working on his masters thesis on the potential of the Clean Development Mechanism and ecosan. Since February 2008 he has been working as part of the ecosan-Team in Eschborn. His responsibilities will include the preparation of the technical and project data sheets.
- **Steffen Blume** studied economic engineering for environmental technologies and management. In 2006 he wrote his thesis on the simulation of decentralised water technologies and their adaptation to developing country conditions. Since then he has been working at the Fraunhofer Institute for Environmental, Security and Energy Technology UMSICHT in Oberhausen and as project leader working with the construction of water treatment installations. His main working area with the ecosan team will be knowledge and web-site management and the economic analysis of ecosan projects. He has been with the ecosan team since December 2007.
- **Xuan You** obtained a bachelor of environmental engineering and is currently studying for a master in water resources engineering and management (WAREM) at the University of Stuttgart. She will be working as an intern from 01.04.2008 to 30.06.2008 with the gtz ecosan team in Eschborn.
- **Obed Kawanga** studied „Environmental Health Sciences“ in Zambia and has completed a post-grad course in International Cooperation and Town Planning at the Technical University of Darmstadt. From 01.04.2008 to 30.10.2008 he will be working as an intern with the gtz-ecosan team.

Indian National WS on sustainable sanitation

India

National workshop on sustainable sanitation 10th – 11th April 2008, New Delhi

Organiser:

Ministry for Rural Development, Department of Drinking Water supply and Rural Development, Government of India. In cooperation with: IWWA (Indian Water Works Association), CSE (Centre for Sciences and Environment, Delhi), ESF (Ecosan Service Foundation), gtz (Gesellschaft für Technische Zusammenarbeit, Eschborn).

The overall goal of the workshop is to contribute to the achievement of the MDGs by promoting sanitation systems which consider all aspects of sustainability. The workshop, organised by the Department of Drinking Water supply (Ministry for Rural Development, Government of India), will highlight the success of large Indian Government such as the Total Sanitation Campaign (TSC) and will focus on a range of innovative and sustainable approaches to sanitation, particularly ecological sanitation. In combining these innovative elements there is a great potential to increase demand for hygienically safe, socially acceptable, environmentally sound and economically affordable sanitation solutions. The workshop will be a platform for sharing experiences and exchanging ideas on sustainable sanitation services by all stakeholders including government agencies, UN agencies, non-governmental organizations, local bodies, women self help groups, financial institutions, legal bodies, designers, architects, town planners and sanitary materials manufacturing industries. It will contribute to the development of an Indian sustainable sanitation action plan.

!!! **Contact:** R.K. Sinha, Department of Drinking Water supply and Rural Development, GOI. rk.sinha@nic.in
Dayanand Panse, ESF (Ecosan Service Foundation, Pune).
ecosan@ecosanservices.org

News from the IWA SG

News from IWA specialist group on “resources-oriented sanitation - ecosan”

Dear members of the IWA specialist group on “resource oriented sanitation – ecosan”!

Since issue 21, the gtz ecosan newsletter contains a contribution for the members of the IWA specialist group on “resources oriented sanitation”. All members of the group are cordially invited to submit their contributions.

International Conference on Sustainable Sanitation Water and Food Security for Latin America, November 26-28, 2007, Fortaleza, Ceará, Brazil.

This conference on Ecological Sanitation for South America gathered 211 participants from 20 different countries. Thanks to the smooth tri-lingual translations (English, Portuguese and Spanish) during the 3 days, it provided a very good forum for sharing of experiences and ideas between members of the international ecosan community and people working with decentralized sanitation in South America. It was organised by the strong Latin American network on ecological sanitation, EcoSanLac, <http://www.ecosanlac.org>, with Prof André dos Santos and Prof Paula L. Paulo in the lead.

Workshop on "Application of EcoSan concepts in India - current practices and challenges", February 5, 2008, Coimbatore, India

A 1-day workshop was organised by the SG as a side event at the 8th IWA Small Systems conference. See below under “News from the projects” for a report on this event.

Sanitation Challenge, International Conference on New Sanitation Concepts and Models of Governance, Wageningen, May 19-21, 2008.

51 oral presentation and 61 posters have been accepted to this conference, which is being supported by our specialist group. It is expected to gather some 100 to 150 participants. For more information and registration go to <http://www.sanitation-challenge.wur.nl/UK>

SG-meeting at the conference Sanitation Challenge, Wageningen, May 19-21, 2008.

During this conference a meeting of the SG is planned. Details will be announced at the conference.

All the best, the group team

!!! Contact:

Ralf Otterpohl (chair; otterpohl@tuhh.de)

Håkan Jönsson (co-chair; hakan.jonsson@bt.slu.se),

Günter Langergraber (co-chair; guenter.langergraber@boku.ac.at)

News from EcoSanRes

Special edition of the “Sanitation NOW” magazine for the 2008 International Year of Sanitation

EcoSanRes is happy to announce the release of the Sanitation NOW 2008 magazine - available for download now! Sanitation NOW is a magazine on the global sanitation crisis, published by the Stockholm Environment Institute and the EcoSanRes Programme. Sanitation NOW 2008 is a special edition for the 2008 International Year of Sanitation.

!!! Download: <http://www.ecosanres.org/sanitationnow2008.htm>

General news

The monthly “Magazin für Entwicklungspolitik” (Magazine for development politics) of the German Federal Government puts its January focus on the UN International Year of Sanitation

The monthly “Magazin für Entwicklungspolitik” (Magazine for development politics) of the German Federal Government puts its January focus on the UN International Year of Sanitation.

The general topic is introduced with the articles "Breaking the taboo" and "Toilets mean dignity". Ecosan approaches are described in "Faeces and wastewater are resources". In addition to this project examples from Burkina Faso and Lake Victoria are presented.

!!! Download:

<http://www.bundesregierung.de/Webs/Breg/DE/Magazine/magazine.html>

[→ Magazin zur Entwicklungspolitik → Nr. 60 - 01/2008 -
Schwerpunkt: Sanitäre Grundversorgung, vom 28.01.2008]

Members of the German Bundestag discuss basic sanitation coverage in Berlin

What are the options and approaches to tackle the global sanitation crisis?

In response to the UN International Year of Sanitation, members of the German parliament from all parties discussed this question in a round table discussion that took place in the offices of the Bremen state representation in Berlin on the 20th February 2008. The discussion was attended by Parliamentary State Secretary Karin Kortmann and MP Uschi Eid, Vice-chair of the UN Secretary General's Advisory Board on Water and Sanitation (UNSGAB), as well as experts of the Federal Ministry of Economic Development and Co-operation and representatives of the Bremen Research and Development Association (BORDA).

Participants were in agreement that action should be taken against the stigmatisation of sanitation. Parliamentary State Secretary Karin Kortmann highlighted the opportunities that could arise from strengthening action by civil society and supporting local partnerships, e.g. co-operations between communal waste management service providers. The potential of increased publicity and working with schools and children was also discussed.

At present, 50% of the global population without access to basic sanitation can be reached with cost-efficient and sustainable decentralised service solutions, says BORDA Director Stefan Reuter describing the potential of alternative approaches. The combination of 'software' (sector policies, civic participation and hygiene education) and reliable 'hardware' (technical infrastructure) play a crucial role to achieve this. The goal is to provide continued access to basic sanitation that is economically and ecologically sustainable and corresponds with social and cultural practices.

Such a sustainable sanitation system not only improves the health situation, but also contributes to eliminating poverty, improving gender equality, and strengthening the economy. The résumé of the roundtable talks was to bring this specialist view on into the parliament and to the public.

BORDA are currently preparing the report of the meeting and it will be available soon.

!!! Download: Program and participants

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/de-iys-roundtable-programm-berlin-2008.pdf>

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/de-iys-roundtable-teilnehmer-berlin-2008.pdf>

!!! Contact: Stefan Reuter reuter@borda.de

Short report from the 5th meeting of the Sustainable Sanitation Alliance (SuSanA), 15th – 17th February 2008, Durban South Africa

The 5th coordination meeting of SuSanA took place from the 15th – 17th February in Durban, South Africa, directly before AfricaSan 2008. SuSanA was founded in 2007 as a meta-network to disseminate sustainable sanitation systems and support the international sanitation year. More than 100 participants from 60 different organisations attended, including many new African partners. The participants looked at the interim results of the various working groups, financing initiatives for sustainable sanitation, the communication strategy of SuSanA and the diverse planned publications and attendance at upcoming events.

SuSanA will be co-convening several events at the Stockholm Water Week, and SuSanA partners will be supporting the preparation and implementation of a National Workshop on Sustainable Sanitation in New Delhi on the 10th and 11th of April 2008. SuSanA initiatives are also leading to two important publications. One, the SuSanA "Vision Paper 2", is being led by EcoSanRes and will be ready for the Stockholm Water Week under the title "Pathways for sustainable sanitation to achieve the MDGs". The content and goal of this publication was discussed in Durban. The second publication, being led by SANDEC/EAWAG, is a book titled "Systems approaches to sanitation". This will summarise the findings of the working group "sanitation systems, technology options, hygiene and health" and build upon the findings of the EU NETSAF (Network for Development of Sustainable Approaches for Large-scale Implementation of Sanitation in Africa) project.

Also worth mentioning is that UNICEF has accepted the lead in the working group "Sustainable sanitation in emergency and reconstruction situations", Plan International (South Africa) has taken the lead in the working group "public toilets" and a fruitful meeting of the group "costs and economics of sustainable sanitation" took place. Although without a lead organisation, it was possible to summarise the activities of this group into an agreed working programme. Different partners consented to develop an agreed methodology for cost benefit analysis, for the further development of the literature review and the collection of case studies, and the elaboration of draft fact sheets for the groups.

A complete results protocol of the 5th meeting will be available for download in March 2008 from the SuSanA web-site.

The next steering group meetings are planned for New York (May 2008) and Stockholm (August 2008).

!!! Information: <http://www.sustainable-sanitation-alliance.org>

!!! Contact: info@sustainable-sanitation-alliance.org

!!! Downloads:

Short information sheet on the goals of SuSanA:

<http://www.sustainable-sanitation-alliance.org/pdf/en-susana-vision-statement-l-version-1-2-feb-2008.pdf>

Updated "joint roadmap for the promotion of sustainable sanitation in the UN's International Year of Sanitation 2008":

<http://www.sustainable-sanitation-alliance.org/pdf/en-susana-roadmap-version-1-2-feb-2008-01-24.pdf>

African networks and projects presented at the SuSanA side-event at AfricaSan (16th February 2008)

Several NGOs presented their capacity development activities at the SuSanA side-event at AfricaSan in Durban. Among those presenting were representatives of NETSSAF, ROSA, CREPA, gtz, SEI, CCAP and the eThekweni Municipality (South Africa). The programme and the individual presentations are available on-line.

!!! Download:

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-agenda-capacity-development-africa-susana-2008.pdf>

Short report from AfricaSan 2008, 18th – 20th February, Durban, South Africa

400 delegates from over 40 countries and Ministers from 25 African Countries attended the Second African Conference on Sanitation and Hygiene – the AfricaSan 2008. On Sunday afternoon (17.02.08) the side event mentioned above took place. This was followed by a "meet and greet" organised by the GTZ for the AfricaSan participants. The AfricaSan conference itself contained a large number of interesting and informed contributions on the potential of ecosan. For example Shante Sheela Nair (Indian State Secretary in the Ministry for Rural Development) started with this situation in India, expanding on her subject to illustrate the importance of ecosan in gender equality, and François Brikké (World Bank Water and Sanitation Programme, South America), who summarised the results of LatinoSan and presented ecosan as a very appropriate approach for rural and peri-urban areas.

In a special “outbreak” session of AfricaSan, ecosan approaches were explored in more detail. Here, for example, the importance of ecosan for a successful Integrated Water Resources Management (IWRM) was highlighted by the GWP (Ethiopia). Different ministers stressed the potential of ecosan approaches. One Rwandan Minister stressed that approaches such as ecosan should be encouraged by national policy in their appropriate areas of application.

The ecosan approach is moving more towards the mainstream. It is being taken ever more seriously and its potential is recognised even at ministerial level. Unfortunately however ecosan was not specifically mentioned in the conference’s Ministerial Declaration. Also the fact that sustainability considerations must be completely incorporated into sanitation to ensure a successful dissemination of basic sanitation was not mentioned.

!!! Information: <http://www.africasan2008.net/indexsa.htm>

!!! Download: Agenda and Links of presentations of SuSanA-AfricaSan-Side-event
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-agenda-susana-africasan-sideevent-2008.pdf>

UN activities during the IYS – an overview

An informative overview of UN activities linked to the IYS 2008 was presented at the SuSanA steering group meeting by Therese Dooley (UNICEF). The next important upcoming date is the 20th March. In advance of this year World Water Day numerous sanitation related activities will take place.

!!! Download:
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-un-activities-iys-africasan-2008.pdf>

Statement from the WHO Director General on the International Year of Sanitation

The WHO has set up a number of web-pages for the IYS 2008. A statement from the director of the WHO can be found here as can further literature (for example the recent guidelines on the safe use of wastewater, greywater and excreta), links to other activities of the organisation and events planned throughout the year.

!!! Information:
http://www.who.int/water_sanitation_health/hygiene/iys/about/en/index.html

Global Water Challenge and Ashoka’s Changemakers announce their search for social entrepreneurs with solutions to the sanitation crisis

According to a recent report in Wallstreet-Online, the Global Water Challenge and Ashoka’s Changemakers have come together to create the joint online competition ‘**Tapping Local Innovation: Unclogging the Water and Sanitation Crisis**’ which seeks to find and support small and large businesses with innovative approaches to the most urgent water and sanitation problems. The Coca-Cola company is supporting these joint efforts to develop and support truly innovative solutions to the sum of 1 million US dollars.

“Through its partnership with Ashoka’s Changemakers, the Global Water Challenge has a platform through which businesses from all over the world can be challenged to demonstrate their considerable capacity to solve the global water and sanitation crisis” said Charlie Brown, executive director of Ashoka Changemakers.

Publish your ecosan project at <http://www.changemakers.net> !

!!! Deadline: **26th March 2008**

!!! Information:
<http://www.changemakers.net> (Ashoka’s Changemakers)
<http://www.globalwaterchallenge.org> (Global Water Challenge)

!!! Source: <http://www.wallstreet-online.de/nachrichten/nachricht/2246323.html>

Jobs

CIM Vacancies

The CIM (Centre for International Migration and Development) is a cooperation project of the gtz and the German Federal Employment Services (BA). The programme for integrated experts offers an additional remuneration to qualified European specialists signing a contract with local institutions in developing countries. Applicants must have German or European nationality and should have several years of professional experience in the respective field of specialisation (except for junior positions). They should not live permanently outside of the EU.

Egypt: Engineer specialising in drinking water supply - Cairo - CIM

The "Holding Company for Water and Wastewater" (HCWW) is responsible on a national level for the operation and management of drinking water supplies and wastewater.

One of your tasks is to transform the regional water supply units into economically independent daughter companies. Other tasks include supporting and advising the technical department of HCWW in water supply questions.

Reference number 60073778

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60073778>

Egypt: Engineer specialising in wastewater services - Cairo - CIM

The Holding Company for Water and Wastewater (HCWW) is responsible on a national level for the operation and management of the water supply and wastewater services infrastructure.

One of your tasks is to contribute to the transformation of regional suppliers into economically independent daughter companies. Additional tasks include supporting and advising the technical department of HCWW with regard to wastewater treatment.

Reference number 60074585

!!! Job description:

<http://www.cimonline.de/de/bewerber/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60074585>

Bolivia: Expert for water catchment management – CIM, Santa Cruz

The department of Santa Cruz in the east Bolivian low-lands, an area of central importance for Bolivia's development. The job is in the department for catchment management in the prefecture and your particular experience is in water catchment management.

Reference Nr: 60078403

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60078403>

Yemen: Expert for water management – CIM, Taiz

The National Water Resources Authority (NWRA) Taiz Branch is the Yemeni authority for the analysis, control and management of water resources in Taiz.

In requesting expert assistance the NWRA Taiz is pursuing its goal to improve the generally poor state of water supply in the region, in order to ensure an affordable water supply and wastewater services for the population in the future and to protect the existing fossil groundwater reserves.

Reference Nr: 60084428

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60084428>

Yemen: Engineer for drinking water supply – CIM, Sana'a

The Sana'a Water and Sanitation Local Corp (SWSLC) has the main responsibility of supplying the city of Sana'a with drinking water.

In requesting expert assistance the SWSLC is pursuing its goal to improve the generally poor state of water supply in the region in order to ensure an affordable water supply and wastewater services for the population in the future and to protect the existing fossil groundwater reserves.

Reference Nr: 60084429

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60084429>

Jordan: Information manager for the water sector – CIM, Amman

The Jordanian Ministry of Water and Irrigation (MWI) works on water resource management and the formulation of appropriate strategies to supply both the population and agriculture with water.

Among your task as information manager at the directorate for the national master plan include the organisation of an improved water information system for all relevant actors in the sector.

Reference Nr: 60080831

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60080831>

Peru: Environmental advisor for drinking and wastewater, Lima – CIM

As a specialist for environmental questions on water and sanitation measures in urban engineering you will accompany and advise the current municipal environment office in its transformation into an environmental general direction. The environment office is attached to the department Construction and Sanitary Engineering of the Ministry and assesses the environmental impact of all activities of the department.

Contract duration: 2 years

Reference number: 60078079

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60078079>

Zambia: Expert for decentralised wastewater systems - CIM, Lusaka

The "Water and Sanitation Association of Zambia" (WASAZA) is the only nationally operating water association in Zambia and represents the interest of its members to the government.

As an expert in decentral wastewater systems you will support WASAZA in the introduction and dissemination of "Decentralized Wastewater Treatment Systems" (DEWATS) in Zambia.

Reference Nr: 60083502

!!! Job description:

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60083502>

Egypt: Team leader in the reform of the water sector – gtz, Cairo

In order to implement the national water policy the Ministry for Water Resources and Irrigation (MWRI) is carry out major reforms.

Your tasks will include accompanying and supporting decision making processes in the reform strategy (“Vision“) and to build a trusting working relation to the minister and other important decision makers.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region-detail.asp?region=Maghreb+and+Middle+East&anzeige=60030528>

Algeria: Junior position “Water management” – gtz

The objective of the programme is to improve the competencies to control the integrated water management of the institutions in the water sector (Ministry of Water, regional institutions). You will assist the programme leader in consulting relevant institutions as well as in accompanying the whole process. Also you will assist in the conception and implementation of new regulatory mechanisms.

!!! Full job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region-detail.asp?region=Maghreb+and+Middle+East&anzeige=60070852>

D.R. Congo: Junior position, Water Sector Reform– gtz, Kinshasa

The reform aims to improve the legal and institutional framework of the entire water sector. This should include laying the foundations for an integrated water resources management, organised at a central level.

You will support the programme leader in advising the sector institutions in the reform process and in the reorganisation of the water sector.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region-detail.asp?region=Sub%2DSaharan+Africa&anzeige=60082552>

Lebanon: Team member / Team leader for Water Supply and Wastewater management - gtz, Beirut

The structural reform of the Lebanese water sector began in 2000 with a new water law. The aim of the gtz project is to improve the services in water supply and wastewater management.

You will provide conceptual advice for the introduction of integrated planning and management systems.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region-detail.asp?region=Maghreb+and+Middle+East&anzeige=60076477>

Tanzania: Project work / Officer Responsible gtz, Dar es Salaam

The programme supports the water sector reforms launched by the Tanzanian Government. The National Poverty Reduction Strategy and the long-term Tanzania Development Vision 2025 for water supply and sanitation play a key role in this context.

Your tasks will include providing consultancy to the autonomous Energy and Water Utilities Regulatory Authority (EWURA) on developing guidelines and rules to regulate the sector and on reviewing water rates, refining the concept for pro-poor water supply and regulation, and helping to implement demonstration measures.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region-detail.asp?region=Sub%2DSaharan+Africa&anzeige=60053551>

Chad: Team leaders for sustainable water management of Lake Chad, N'djamena –gtz

The second phase of this project aims at improving the cooperation relations between the Lake Chad Commission and the partner institutions in the member states Nigeria, Cameroon, Chad and Niger.

You will assume responsibility for the German contribution and coordinate the project activities with other donors.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region-detail.asp?region=Sub%2DSaharan+Africa&anzeige=60081526>

News from the projects ...

German cooperation

India: Short report from a 1-day ecosan workshop in Coimbatore on 05 Feb 2008

30 international participants and about 80 students attended the 1-day workshop on "Application of ecosan concepts in India – Current practises and challenges", on the February 5th 2008, at the Kumaraguru College of Technology (KCT), Coimbatore, India. It was organised by the IWA Specialist Group on "Resources Oriented Sanitation (EcoSan)" as a side event of the 8th IWA Small Systems conference. Co-organizer were UNICEF (Bhopal), seecon (Switzerland and Austria), Indian Water Works Association (IWWA).

Practical ecosan project examples from India provoked a lively discussion on urine diversion dehydration toilets and a range of other components of ecosan systems. Other topics during the workshop included greywater reuse systems implemented in schools, risk management in operation and maintenance of treatment systems, and financing issues (including operation and maintenance as well as logistics and economics for different technological components of ecosan systems).

A 1-page workshop-report from Günter Langergraber and the gtz-presentations given during the workshop are now available online.

!!! Download:

Workshop-Report (1 page):

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-report-ecosanconcept-india-workshop-2008.pdf>

gtz-Presentations

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-gtz-ecosan-project-examples-obstacles-and-opportunities-india-2008.pdf>

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-gtz-ecosan-pilot-projects-indian-schools-2008.pdf>

!!! Contact: Günter Langergraber guenter.langergraber@boku.ac.at

Philippines: YouTube videos "Clean water and beyond" of the constructed wetland treatment plant in Bayawan

The Local Government Unit of Bayawan in cooperation with the GTZ Water and Sanitation Programme established the first communal constructed wetland in the Philippines in 2005. With the constructed wetland the wastewater of 3000 inhabitants of a fishing village in the Barangay Villareal of Bayawan City is treated, cleaned, and reused. A set of YouTube videos is now available in the internet that explains the project and its history in detail.

!!! Information:

<http://de.youtube.com/user/doellek>

<http://www.watsansolid.org.ph/constructedwetlands.html>

!!! Contact:

Ulrike Lipkow ulrike.lipkow@gtz.de

Burkina Faso: News from the EU-ACP WF ecosan project in Ouagadougou

During the 5th SuSanA steering group meeting in Durban the latest results from the EU-ACP Water-Facility ecosan project in Ouagadougou were presented. The project aims to inform 300 000 people in Burkina's capital by mid-2009 that urine and faeces can be profitably recycled, and 1000 households should be using ecosan systems.

The PowerPoint presentation of these results from the CREPA/GTZ/ONEA project is available online.

!!! Download

<http://www.sustainable-sanitation-alliance.org/documents/5thmeeting/day2/en-susana-durban-presentation-33-ecosan-burkina-faso-anselme-vodounhessi.pdf>

News from the projects ...

other cooperation

U.S.A.: Living Building Challenge - Zero Energy and Zero Wastewater Buildings

The Cascadia Region Green Building Council (Seattle, Washington, U.S.A.) has issued a challenge to all building owners, architects, engineers and design professionals to build in a way that will help to provide all of us and our children with a sustainable future. "At the heart of the Living Building Challenge is the belief that our society needs to move quickly to a state of balance between the natural and built environments," said Jason F. McLennan, Cascadia's chief executive officer. Cascadia envisions a future whereby all buildings are designed to harvest enough water to meet the needs of occupants. A Living Building is water independent. All water can be used and purified, and then reused again. Currently such practices, (i.e. on-site water reuse systems), are usually illegal under health code regulations in the U.S.A., which arose precisely because people were not properly safeguarding the quality of their water. A wholistic engineering approach can be used to address the many cross relationships between the regulatory (laws), environmental concerns and the technical issues.

!!! Information: Living Building Challenge: <http://www.cascadiagbc.org/lbc>
Cascadia Region Green Building Council: <http://www.cascadiagbc.org/>
2020 ENGINEERING: <http://www.2020engineering.com>

South Africa: 30% reduction of diarrhoea through using urine-diversion toilets

The urine diversion dehydration toilets (UDDTs) bring significant health benefits to the population in peri-urban areas of the municipality of eThekweni (South Africa). According to a recent study, households with a new UDD-Toilet have a 30% reduction in diarrhoeal diseases compared with similar households using pit latrines.

Since 1996, the eThekweni Water and Sanitation Unit improves the access to water supply by providing a daily 200 litres water ration, and the access to decent sanitation by supplying households with urine diversion (UD) toilets in the peri-urban areas of Durban, South Africa. A cholera outbreak in 2000 killing more than 70 people accelerated the introduction of urine diversion dehydration toilets (UDDTs). They are, on the household level, substituting the old pit latrines which pose a health threat when full.

Due to difficult access it is almost impossible to empty the pit latrines on a regular basis. The urine diversion toilets are less costly to empty and produce a better quality of the end products by keeping urine and faeces separate. During the past few years, eThekweni has replaced nearly 60,000 pit latrines with UD toilets.

!!! Contact: Chris Buckley buckley@ukzn.ac.za

!!! Source: Science 8, February 2008: Vol. 319., No. 5864, S. 744 – 745

Publications...

Reusing the resource - adventures in ecological wastewater recycling

Carol Steinfeld & David Del Porto (2007): "Reusing the Resource." - English, 124 pages, and 300+ colour photos and diagrams. EcoWaters Books. \$24.95. ISBN 096667832X

Reusing the Resource is a comprehensive guide to using plants to stabilize, clean, filter, and reuse wastewater, while simultaneously eliminating expensive and polluting sewers and septic systems. The book profiles more than thirty successful ecological wastewater recycling systems that save money, protect public and environmental health, and provide plant-based fuel, fibre, construction materials, habitat, and landscapes.

!!! Information (order from): <http://www.ecowaters.org/products.html>

Sustainable management of water – concepts for the new millennium

Margot Franken (2007): "Gestión de aguas – conceptos para el nuevo milenio." - Spanish, 499 pages, Universidad Mayor de San Andrés, Instituto de Ecología. ISBN 978-99954-1-114-5

Since 1985, Margot Franken, holding a PhD in natural sciences, is an investigating lecturer at the University Mayor of San Andrés, Institute of Ecology, Bolivia. Her innovative book suggests solutions for the sustainable management of water using decentralised water supply and drainage systems as well as through closing local water cycles in a natural way.

Along with an evaluation of the relevant health aspects and environmental quality of centralised and decentralised systems, an explanation of sustainable technologies such as ecological sanitation, potabilisation of water, reuse of treated wastewater and rainwater management the author provides best practices from international projects and presents several examples from Bolivia.

!!! Contact: mvfranken@yahoo.com

Publications...

on the net

Microfinance for water, sanitation and hygiene: an introduction

Fonseca, C. et al., 2007: "Fonseca, C. et al., 2007: "Microfinance for water, sanitation and hygiene: an introduction." English, 28 Pages, Publication, Delft, The Netherlands, Netherlands Water Partnership.

This booklet gives a short introduction on microfinance issues in the water and sanitation sector. It argues, that microfinance can make an important contribution to the achievement of the Millennium Development Goals (MDGs), and - used properly - can help reduce poverty and empower women.

!!! Download (809 KB):

http://www.irc.nl/content/download/128991/353215/file/Microfinance_India.pdf

!!! Source: IRC newsweekly No. 14/2007

Global costs of attaining the Millennium Development Goal for water supply and sanitation

Guy Hutton & Jamie Bartram (2008): Global costs of attaining the Millennium Development Goal for water supply and sanitation." - Bulletin of the World Health Organization; vol. 86, no. 1; p. 13-19.

A new study by the World Health Organization (WHO) provides "more updated and comprehensive figures than have been previously available of the costs of attaining the MDG [Millennium Development Goal] target for water and sanitation". From 2005 to 2014 an estimated US\$ 72 billion needs to be spent annually on water and sanitation of which US\$ 18 billion is on increasing coverage to the currently unserved population and US\$ 54 billion is on maintaining existing coverage.

Given the lack of up-to-date data on actual combined spending by governments and households on water supply and sanitation in developing countries, the study was not able to estimate the current financing gap at the global level.

!!! **Download:** <http://www.who.int/bulletin/volumes/86/1/07-046045.pdf>

!!! **Source:** IRC newsweekly No. 16/2008

Innovative Water concepts – service water use in buildings

Senatsverwaltung für Stadtentwicklung, Berlin, Hrsg. (2007): “Innovative Wasserkonzepte - Betriebswassernutzung in Gebäuden”, (Innovative water concepts – service water use in buildings) Summary in both German and English; 33 /31 pages; Berlin.

In many public and private buildings installations have been and are being used for service water involving the use of rain water or grey water. The fields of application for these approaches are numerous: for toilet flushing, for cooling and also in washing or cleaning devices rain water or treated grey water can be used.

The use of innovative environmental technologies in building concepts represents a great potential for reducing running costs and is quickly becoming an attractive feature even for export. In Berlin a large number of model projects have already been developed, used and evaluated. This publication shows some of these examples and provides overviews and planning help.

The long version can be bought for 15 EUR including post from the information centre of the Berlin senate administration. The short version in German and English is free.

!!! **Contact:** info-center@senstadt.verwalt-berlin.de

!!! **Download: (English)**

http://www.stadtentwicklung.berlin.de/bauen/oekologisches_bauen/de/downloads/betriebswasser_englisch2007.pdf

!!! **Download: (German summary)**

http://www.stadtentwicklung.berlin.de/bauen/oekologisches_bauen/de/downloads/betriebswasser_deutsch2007.pdf

Greening sanitation systems: an end-user perspective

Dries Hegger (2007): “Greening sanitation systems: an end-user perspective”, English, 268 pages, PhD thesis, Wageningen University. ISBN 978-90-8504-711-7

The central aim of the thesis is to contribute to a transition towards sustainable sanitation and wastewater systems and practices in Western society by developing a social science perspective on sanitation and wastewater management. The empirical core of this study comprises a comparative case study analysis of Dutch, German and Swedish pilot projects in which wastewater management technologies are experimented within a domestic setting.

In innovation in sanitation, the life-world of the domestic end-user should more often form the starting point: the wishes and demands of end-users concerning convenience, hygiene, aesthetics and status provide insight in the chances as well as the possible threats for successful innovation in sanitation.

!!! **Abstract:** <http://library.wur.nl/WebQuery/wurpubs/lang/358946>

!!! **Download:** <http://library.wur.nl/wda/dissertations/dis4320.pdf>

New on the net

Collection of publications on appropriate technology now available on-line

Around 800 publications on “appropriate technology”, “water and sanitation” and “energy” are now available on-line (and off-line on a CD-Rom). A large range of GTZ publications from diverse projects such as GATE, Chrystal, etc., as well as publications from “Practical Action”, “DTU” and other organisations make up this collection.

!!! **Download:** http://www.fastonline.org/CD3WD_40/CD3WD/INDEX.HTM

Tools for capacity development

Version 2.2 of the ecosan curriculum CD-ROM now available

The "ecosan curriculum" was put together by seecon international GmbH and a number of partners. It includes a range of teaching tools, like ready-to-use power point presentations, background tutorials and a comprehensive collection of further reading material on ecological sanitation. Now the new version 2.2 is available. It contains additional and topical background information, e.g. all four volumes of the new WHO Guidelines for the safe Use of Wastewater, Excreta and Greywater. Furthermore, a new module on institutional aspects was created, and all existing modules were updated with newly published open-source material on ecological sanitation. The ecosan curriculum can be ordered from the Ecosan Services Foundation against the handling charge of around 10 EUR for individuals or 100 EUR for its use in courses (each plus postage).

!!! Information: <http://www.ecosanservices.org/page.php?id=978>

!!! Contact: Ecosan Services Foundation, ecosan@ecosanservices.org

Training and Courses

Worldwide: Internet course "fundamentals and applications of ecosan" 31 March - 19 July 2008

Organisation: UNESCO-IHE, Delft

The popular ecosan online course "fundamentals and applications of ecosan" which ran twice in 2007 (with a total of 49 participants), will run again in 2008. The topics of this online course are: introduction to ecosan; transfer and treatment of excreta and greywater; agricultural reuse; water demand management measures; rainwater harvesting; non-technical aspects. The course runs for 16 weeks in a part-time mode (about 8 hours per week). A demo version of the course (including free access to all course materials) is available from UNESCO-IHE. If you are interested in participating in the course apply quickly – there are only a few remaining places.

!!! Information: Demo-version of the UNESCO-IHE online ecosan-course
<http://www.lms.ihe.nl> (login: ecosandemo, Password: 1234)

!!! Downloads: (Registration form):
http://www.unesco-ihe.org/education/prospective_students/application_forms

!!! Contact: Elisabeth von Muench: e.vonmunch@unesco-ihe.org

India: Ecological sanitation - a need of today 12th – 24th May 2008

Organisation: ESF (Ecosan Service Foundation, Pune)

This face-to-face ecosan training course follows a participatory cross-institutional and interdisciplinary approach. Participants will gain thorough theoretical and practical knowledge in the field of ecosan. The course consists of two one-week modules, which will enable you to plan and implement your own ecological sanitation projects.

Prepare for the face-to-face course through an e-learning course

An introductory ecosan e-learning course "Capacity building for ecological sanitation", taking place from 24th to 31st march 2008, has been developed for those who want to get an introduction to ecological sanitation and/or want to prepare themselves for the above ecosan face-to-face training course in Nashik, India. The e-learning course is designed for people from or working in South Asia and is conducted by international reknown ecosan experts. The course can be attended by interested persons with a working internet connection for free.

!!! Information: (face-to-face-course)
<http://www.ecosanservices.org/page.php?id=994>

- !!! **Registration:** (face-to-face-course)
<http://www.ecosanservices.org/page.php?id=1098>
- !!! **Information:** (e-course)
<http://www.ecosanservices.org/page.php?id=1165>
- !!! **Registration:** (e-course)
<http://www.ecosanservices.org/page.php?id=1194>
- !!! **Contact:** sreevidya.satish@ecosanservices.org

Norway: Sustainable sanitation - decentralized, natural and ecological wastewater treatment
03rd – 27th June 2008

Organisation: UMB (Norwegian University of Life Science)

This course explores sustainable sanitation solutions for the poor, but also for rich countries. The different systems are introduced through case studies presented by international experts. Through inductive learning based on real cases from different parts of the world, including sanitation in crisis situations, dry and wet and cold climates, the students are challenged to suggest and design systems. Lectures are given on key topics related to system function and design. The course emphasizes on decentralized solutions, natural systems (constructed wetlands, settling ponds, soil infiltration and sand filters) treating combined wastewater and greywater, small diameter pressure vacuum and gravity collection systems, source separating systems (dry sanitation, urine diverting and blackwater systems) and anaerobic treatment of waste resources for the production of biogas and fertilizer from excreta and organic household waste. Both the technical and the socioeconomic sides of successfully improving sanitation are covered.

!!! **Deadline:** 15 March 2008

!!! **Information:** <http://www.umb.no/summeruniversity> and <http://www.ecosan.no>

!!! **Download:** registration form <http://www.umb.no/international/doc/nondegree.doc>

!!! **Contact:** Petter Jenssen petter.jenssen@umb.no

Sweden: Advanced International Training Programme (ITP) in Ecological Sanitation
2008/2009, Stockholm

Organisation: Stockholm Environment Institute

This advanced, international training programme in ecological sanitation focuses on attractive sanitation solutions for urban and peri-urban areas to promote human health, enhance human dignity, improve nutritional status and protect water sources. Target groups are professionals in selected countries in Asia, Africa, Eastern Europe, and Central Asia engaged in town planning, water supply, waste management, hygiene, and socio-economic development, researchers and teachers/trainers in fields related to sustainable sanitation, and key persons engaged in NGOs with projects associated with community development for improved sanitation and water supply.

!!! **Deadline:** April 1st, 2008 (for Africa and Latin America)
May 1st, 2008 (for Asia, Eastern Europe, and Central Asia)

!!! **Information:** <http://www.ecosanres.org/ITP2008.htm>

!!! **Contact:** solveig.nilsson@sei.se

Events

new

**Germany: Architecture and Environment – Towards symbiosis
14th March 2008, Weimar**

Organiser: Bauhaus-University Weimar

Is the Oasis-City a vision? Cities will be the focus of ecological construction. The content and organisation of the inter-university master course “Architecture and Environment” is unique. This conference presents results from the new holistic vision of the city developed in the last 10 years. Sustainable water and wastewater management are among the topics looked at in projects from Ghana and Tibet.

!!! Information: <http://www.ecolog-building.de/tagung/tagung2.htm>
<http://www.ecolog-building.de/tagung/tagung1.htm>

!!! Contact: oekeolog.bauen@uni-weimar.de

**Philippines: VizMin Sanitation Summit
2nd – 3rd April 2008, Dumaguete City**

Organiser: DILG-GTZ Water and Sanitation Program

To promote sanitation in the international year of sanitation the DILG - gtz Water and Sanitation Programme will undertake from 2nd to 3rd April 2008 a Visayas-Mindanao (Viz-Min) Sanitation Summit in Dumaguete City. A Sustainable Sanitation Jingle had been launched on Monday 21st January in a pre-event.

!!! Information: <http://www.watsansolid.org.ph/popup.html>
<http://www.watsansolid.org.ph>

!!! Contact: gtzwater@info.com.ph

**Spain: 4th Int. Conference on Waste Management & Environment
2nd – 4th June 2008, Granada**

Organiser: Wessex Institute of Technology, UK, The University of Granada, Spain University of Nagoya, Japan, Department of Planning and Regional Development, University of Thessaly, Greece

Waste Management is becoming one of the key problems of the modern world, an international issue that is intensified by the volume and complexity of waste discarded by society's households and industries. Unfortunately, many of the practices adopted in the past were aimed at short-term solutions without sufficient regard or knowledge for long term implications on health, the environment or sustainability and this, in many cases, is leading to the need to take difficult and expensive remedial action.

!!! Information: <http://www.wessex.ac.uk/conferences/2008/waste08/index.html>

!!! Contact: krobberts@wessex.ac.uk

!!!Download: <http://www.wessex.ac.uk/conferences/2008/waste08/documents/WasteManagement08.pdf>

**Germany: IAMO forum: Agri-food business global challenges
25th – 27th June 2008, Halle (Saale)**

The IAMO Forum 2008 will focus on three global challenges: food quality, bio-energy, and redefinition of agricultural policy. These are considered to be of major importance for developments in both the agri-food sector and its economic and political environment.

The conference will particularly address:

- Structural changes on traditional markets
- Emerging markets such as bio energy

- Management strategies to meet new demands
- Changing trade patterns
- Challenges for future agricultural policy debates (e.g. Doha, CAP).

!!! Information: <http://forum2008.iamo.de>

Netherlands: Moving organic waste recycling towards resource management and bio-based economy
13th – 15th October 2008, Wageningen

Organizer: Wageningen University and Research Centre (WUR)

Modern approaches regard organic residues as a highly valuable resource which leads in some areas already to a carbon competition for the use on soils for food production or for the generation of renewable energy. Future valorisation of organic residues as feedstocks for the so-called "Bio-based Economy" has just started which consider organic residues as a carbon source for chemical transformation processes for food, chemistry and energy applications.

!!! Information: <http://www.orbit2008.de>

!!! Contact: info@orbit2008.de

Germany: International symposium: Coupling sustainable sanitation and groundwater protection
14th – 17th October 2008, Hannover

Organizer: Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), Bundesministerium für wirtschaftliche Zusammenarbeit (BMZ), United Nations Environment Programme (UNEP), World Health Organisation (WHO), Borda, DED, DWA, GTZ, IAH, KfW, TTZ, SuSanA

The international symposium will serve as a forum for exchange between practitioners in development cooperation, technical and scientific specialists and representatives of political institutions who are committed to substantive support for improved sanitation. It will therefore discuss technical and scientific approaches towards improved sanitation and groundwater protection within a political framework.

The symposium will be complemented by a "market of opportunities" which consists of a poster exhibition showing various technical examples and case studies from different parts of the world. In addition, a small exposition of sanitation solutions will be presented that can be implemented in the development context.

The creation of new partnerships between development organisations and technical implementers should be enhanced through the event. By outlining the state-of-the-art in sanitation and groundwater protection, the symposium will help to bridge the gap between political commitment and technical approaches of different disciplines.

!!! Information: <http://www.bgr.bund.de/EN/symposium2008>

!!! Contact: symposium2008@bgr.de

China: World Toilet Summit and Expo
4th – 6th November 2008, Macau

The World Toilet Summit 2008 will be held in Macau from 4th – 6th November. Actors from the sanitation sector around the world will participate to discuss and draw action plans for promotion of adequate and sustainable sanitation systems. The Summit will also feature the World Toilet Expo which will showcase leading edge sanitation solutions for urban and rural sanitation industry.

!!! Information: <http://www.worldtoilet.org/>

Italy: **Second Int. Symposium on Energy from Biomass & Waste**
17th – 20th November 2008, Venice

Organization: IWWG - International Waste Working Group
CISA - Environmental Sanitary Engineering Centre

The aim of the Venice 2008 Symposium is to focus on the advances made in the application of technologies for energy recovery from biomass and waste and to encourage discussion on relevant aspects such as:

- reliability of processes and technologies,
- full scale applicability of new processes,
- technical and economic optimization,
- improvement of energy balance,
- environmental impact and potential health effects,
- information and education,
- selection of the appropriate process for the specific situation, and
- adaptation of technologies to different geographical and cultural situations.

The Symposium will last four days (three days of scientific sessions and one day for technical tours) and will include oral sessions, a poster session and a small exhibition by companies working in the field.

!!! Information: <http://www.venicesymposium.it/venice2008/main.html>

!!! Contact: eurowaste@tin.it

Events Reminder

Malaysia: **Asia Water 2008**
01st – 03rd April 2008, Kuala Lumpur

Asia Water Expo & Forum is a business-to-business trade show focusing on the water and wastewater industry where exhibitors include operators, regulators, technology suppliers and service providers.

!!! Information: <http://www.asiawater.org>

Palestine: **First Symposium on Wastewater Reclamation and Reuse**
02nd – 03rd April 2008, Birzeit

Organisation: Institute of Environmental and Water Studies (IEWS), Birzeit University, in cooperation with the Palestinian Water Authority (PWA), the International Development Research Centre (IDRC), German Technical Cooperation (gtz), and UNESCO-IHE Partnership for Water Education and Research (PoWER)

This symposium aims at exposing Palestinian policy-makers and other stakeholders to the different aspects of wastewater treatment and reuse for agricultural irrigation. The main theme is wastewater reclamation and reuse within Palestinian Integrated Water Resources Management. The Symposium is coupled with the World Water Day 2008

!!! Information: <http://home.birzeit.edu/iws/symposium/symp.htm>
<http://www.worldwaterday.org>

!!! Contact: iews.bzu@gmail.com

Ghana: Access to Sanitation and Safe Water: Global Partnerships and Local Actions
07th – 11th April 2008, Accra

Organisation: WEDC

The theme of this 33rd WEDC international conference focuses on the concepts of global partnerships, alliances and networks within the water and environmental sanitation sector. This provides a mechanism for building strong alliances across the different stakeholder groups, and for capacity building through information exchange and skills sharing.

!!! Information: <http://wedc.lboro.ac.uk/conferences/33>

!!! Contact: wedc.conf@lboro.ac.uk

Germany: 15th International Trade Fair for Water and sewage (IFAT)
05th – 09th May 2008, Munich

Organiser: Messe München GmbH

In 2008, IFAT - the international trade fair for the environmental sector - will revolve around environmental solutions. It will be oriented to the future of environmental technology, focusing on everything from high tech to low tech including comprehensive solution approaches.

!!! Information: <http://www.ifat.de/link/en/16607391>

!!! Contact: info@ifat.de

U.K.: 7th International Conference on Environmental Problems in Coastal Regions
19th – 21st Mai 2008, New Forest

Organiser: Wessex Institute of Technology, UK

The Coastal Environment Conference deals with problems related to monitoring, analysis and modelling of coastal regions, including sea, land and air phenomena. An important part of the meeting is the discussion of ecological and environmental problems and the issues of water quality.

!!! Information: <http://www.wessex.ac.uk/conferences/2008/coast08/>

!!! Contact: rswinburn@wessex.ac.uk

The Netherlands: Call for abstracts: IWA Conference Sanitation Challenge
19th - 21st May 2008, Wageningen

Organizers: Wageningen University, IWA, Wetsus centre for sustainable water technology, LeAF

In the UN International Year of Sanitation an IWA conference is organized in Wageningen, the Netherlands to scientifically discuss new sanitation concepts and techniques, models of governance and experiences from all over the world.

The conference deliberately aims to create a dialogue between civil, process, agricultural and environmental engineers; urban planners, sociologists, economists, and political scientists who are involved in international sanitation research and implementation. Furthermore, this conference tries to bridge the gap between sanitation research and demonstration in the 'North' and in the 'South'. Among others, the conference will be a platform to present the findings of the 'Decentralized Sanitation and Reuse' (DESAR) project performed in the Netherlands from 2001-2007, and those of a sanitation and urban infrastructure research

project in East Africa (PROVIDE).

The themes of the conference are the following:

- (1) Innovation management in sanitation,
- (2) Socio-spatial embedding of innovative sanitation solutions,
- (3) Perspectives from the extreme ends of the chain: consumers and farmers,
- (4) New sanitation concepts,
- (5) Contemporary knowledge gaps.

You are encouraged to submit an abstract on sanitation issues that relate to the challenges described above.

!!! Further information

<http://www.sanitation-challenge.wur.nl>

<http://themas.stowa.nl/Themas/Projects.aspx?mID=7216&rID=1006&aID=1639>

<http://www.provideafrica.org>

!!! Contact: leaf@wur.nl

Spain: **Environmental Economics 2008: 2nd Int. Conference on Environmental Economics and Investment Assessment**
28th – 30th May 2008, Cádiz

Organisers: Wessex Institute of Technology, UK; University of Cádiz, Spain, The National Technical University of Athens, Greece

Conference topics include:

- cost benefits analysis
- natural resources management
- environmental performance
- economics of waste management
- social issues and environmental policies

!!! Information: <http://www.wessex.ac.uk/economics2008rem1.html>

!!! Contact: krobberts@wessex.ac.uk

UK: **Water and sanitation in international development and disaster relief**
28th – 30th May 2008, Edinburgh, Scotland

The workshop focuses on new strategies and sustainable as well as appropriate technologies to solve the complex and multi disciplinary problem of water and sanitation in disaster relief.

!!! Information: http://www.lifelong.ed.ac.uk/water_and_sanitation_2008/

Spain: **Sustainable Irrigation 2008: 2nd International Conference on Sustainable Irrigation Management, Technologies and Policies**
11th – 13th June 2008, Alicante

Organiser: Wessex Institute of Technology (UK), University of Alicante (Spain)

The conference aims to attract researchers in academia and industry as well as professional practitioners and policy makers to review the state of the art from the scientific, technological, political and economic points of view. Its objective is also to discuss how to reach the sustainable management of irrigation resources in the future by applying modern computer simulation methods, advanced technologies and new technologies as well as analysing different policies and economic forecasting techniques.

!!! Information: <http://www.wessex.ac.uk/conferences/2008/irrigation08/index.html>

!!! Contact: krobberts@wessex.ac.uk

Spain: **EXPO Zaragoza 2008: Water for Sustainable Development**
11th June – 14th September 2008, Zaragoza

Organiser: Bureau International des Expositions (BIE)

The organisers expect 6 million visitors and the participation of 70-90 countries, as well as international organisations, NGOs and companies.

Key themes include: water, a scarce resource; water for life; waterscapes; and water, an element linking peoples. The EXPO includes a Water Tribune based on the theme of 'Water and Sustainable Development', which will include: themed weeks consisting of sector seminars and meetings culminating in an international Conference on Water and Sustainable Development; a forum for citizen participation; and parallel events by int. bodies and associations.

Output shall be given by the International Declaration of Zaragoza on Water and Sustainable Development.

!!! Contact: expo2008@vardagroup.org

!!! Information: <http://www.expozaragoza2008.es>

Portugal: **Eco-Architecture 2008**
23rd – 25th June 2008, Algarve

Organiser: Wessex Institute of Technology, UK

Eco-Architecture is by definition inter-disciplinary; it requires the collaboration of engineers, planners, physicists, psychologists, sociologists, economists, and other specialists, in addition to architects. The aim of the conference is to provide a forum for discussing the many relevant aspects of Eco-Architecture.

!!! Information: <http://www.wessex.ac.uk/conferences/2008/ecoarch08/index.html>

!!! Contact: krobberts@wessex.ac.uk

!!! Download:
<http://www.wessex.ac.uk/conferences/2008/ecoarch08/documents/EcoArch07Dscreen.pdf>

Portugal: **Design & Nature**
24th – 26th June 2008, Algarve

Organiser: Wessex Institute of Technology, UK

It is intended that the meeting will bring together researchers from around the world working on a variety of studies involving nature and their significance for modern scientific thought and design.

!!! Information: <http://www.wessex.ac.uk/conferences/2008/design08/index.html>

!!! Contact: krobberts@wessex.ac.uk

!!! Download: <http://www.wessex.ac.uk/conferences/2008/design08/documents/DesnNat08.pdf>

Italy: International Symposium on Sanitary and Environmental Engineering
23rd – 27th July 2008, Florence

Organiser: Marine Waste Water Discharges and Coastal Environment (MWWD)
The conference focus is on innovative processes and technologies for water and wastewater management.

Some of the conference themes:

- Treatment and use of non-conventional water resources
- Integrated systems for waste and wastewater treatment and management
- Waste and wastewater management in low income countries
- Waste, sludge, and wastewater as alternative sources of energy
- Economics (financing and cost recovery, pricing and tariffs, benchmarking, ...)
- Recovery, Recycling and reuse
- Environmental sustainability

An early bird reduction (10%) is applied for registration before 30 March 2008

!!! Information: <http://www.andistoscana.it/sidisa08/index.php?file=temi&lang=eng>

!!! Contact: info@andistoscana.it

Australia: 1st Int. Conference on Sustainable Biosystems
06th – 09th July 2008, Perth

Organisation: Int. Organisation for Biotechnology and Bioengineering (IOBB)

The conference will primarily focus on the technical aspects of Integrated Biosystems and their integration into society. Development of decentralised technologies that mimic bio-systems, have led to real commercial gains without sacrificing a sustainable approach. Decentralised approaches and the move toward integration of high-tech solutions and bio-systems often guarantee innovation.

!!! Information: <http://www.etc.murdoch.edu.au/pages/conf1.html>

!!! Contact: Dr. Jaya Nair IOBB2008@gmail.com

Sweden: World Water Week
17th – 23rd August 2008, Stockholm

Organiser: Stockholm International Water Institute (SIWI)

The theme of the week is "Progress and Prospects on Water: For a Clean and Healthy World", including a Special Focus on Sanitation.

!!! Information: <http://www.worldwaterweek.org/>

!!! Contact: katarina.andrzejewska@siwi.org

!!! Download: http://www.worldwaterweek.org/Downloads/1st_Announcement_2008.pdf

UK: 11th international conference on Urban Drainage
31st August – 5th September 2008, Edinburgh

Organisation: International Water Association (IWA)

At this stage the proposed topics of the conference are:

- The effects of climate change on urban drainage systems
- Demographic effects

- Urban drainage in developing countries
- Multi-disciplinary and sustainable aspects of urban drainage systems
- Management at or near the source
- Catchment systems, holistic and integrated operation and management
- Hydro informatics

!!! Information:

http://www.iwahq.org/templates/ld_templates/layout_633184.aspx?ObjectId=641703

!!! Contact: r.ashley@sheffield.ac.uk

France: **13th IWRA World Water Congress 2008**
01st – 04th September 2008, Montpellier

Organiser: IWRA, Verseau Développement, Institut Languedocien de recherche sur l'Eau et l'Environnement (ILEE), ENJOY Montpellier

The objective of the 13th World Water Congress is to enhance the world's knowledge and raise global consciousness of the impact of global changes on water resources. The Congress will bring together wide-interest participation, exhibitions and scientific communications about our planet's water resources. This Congress will represent an important global meeting point for open dialogue between public and private partners, between users and decision makers and between developing, emerging and developed countries.

In order to contribute to this global reflection and action, the Congress will organise numerous debates, presentations and exhibitions among key water stakeholders. –

!!! Information: <http://www.worldwatercongress2008.org>

!!! Contact: wwc2008@msem.univ-montp2.fr

Austria: **IWA World Water Congress and Exhibition 2008**
07th – 12th September 2008, Vienna

Organiser: IWA, IAWD

The Vienna congress provides a rich and comprehensive means of accessing the leading edge of knowledge in the management of water. The programme includes three different mechanisms for the exchange of knowledge and experience: sessions involving the platform and poster presentations of scientific and technical papers, practice-oriented workshops and an industry forum.

!!! Information: <http://www.iwa2008vienna.org>

!!! Contact: 2008vienna@iwahq.org.uk

Botswana: **IASTED International conference on water resource management in Africa**
08th – 10th September 2008, Gaborone

Organiser: IASTED: The International Association of Science and Technology for Development

The purpose of this conference is to act as an interdisciplinary forum for decision-makers, academics, and professionals interested in the development and application of technology in ensuring the sustainable use and management of our water resources. The forum will cover both hard and soft technology and will serve to promote the use of appropriate technologies.

!!! Information: <http://www.iasted.org/conferences/cfp-604.html>

!!! Contact: calgary@iasted.org

**Burkina Faso: Int. Conference on Sustainable Sanitation in Africa /
NETSSAF Final Conference**
24th – 26th September 2008, Ouagadougou

Organisation: CREPA, NETSSAF consortium

The objective of the conference is to bring together members of the NETSSAF consortium jointly with other decision makers, sanitation professionals and practitioners and scientists to present their findings and discuss future trends and directions concerning the development of sustainable approaches for large scale sanitation issues in rural and peri-urban areas.

!!! Information: <http://www.netssaf.net/170.0.html>

Malta: Sustainable Tourism 2008
03rd – 05th October 2008

Organiser: Wessex Institute of Technology, UK The Complutense University, Madrid, Spain

This conference will explore issues concerned with achieving environmental, social and economic sustainability of tourism alongside the governance mechanisms needed to support sustainable tourism. In particular, the meeting will focus on empirical work and case studies from around the world, which can offer new insights and best practice guidance.

!!! Information: <http://www.wessex.ac.uk/conferences/2008/tourism08/index.html>

!!! Contact: krobber@wessex.ac.uk

!!! Download: <http://www.wessex.ac.uk/conferences/2008/tourism08/documents/SustTourism08.pdf>

India: 11th International Conference on Wetland Systems Technology for Water Pollution Control
01st – 07th November 2008, Indore

Organiser: IWA, Vikram University IEMPS, ICWST

The conference will review and evaluate research findings and management practices on use of constructed and natural wetlands for water pollution control, and aimed at improving dynamic processes, planning, operation, performance and economics of wetland systems. Since this event will be taking place for the first time in growing India, efforts will be made to attract more participants from the region.

Proposed Themes are process dynamics, design criteria, investment costs, operation and maintenance costs, ancillary benefits, ecological services vis a vis conventional technologies, carbon trading, beautification in water scaping and aquatecture, roof gardens, flood plain construction, bio drainage, wildlife sanctuary in wetland, treatment performance of wetlands in water pollution control and case studies.

!!! Information: <http://www.wetland2008.org/SaveWater/>

!!! Contact: sbillore@wetland2008.org

Turkey: 5th World Water Forum
15th – 22nd March 2009, Istanbul

Organiser: World Water Council

!!! Information: <http://www.worldwatercouncil.org/>

China: World EXPO 2010
01st May – 31st October 2010, Shanghai

The theme of the world EXPO 2010 is "Better City, Better Life". An ecosan study undertaken in preparation of the EXPO 2010 has recently been presented at a DWA-BMZ-gtz Symposium and is available as download.

!!! Information: <http://www.expo2010china.com/expo/expoenglish/index.html>

!!! Download: Shanghai 2010 reference project [in German]
<http://www.gtz.de/de/dokumente/de-innovative-staedtische-infrastrukturen-expo-projekt-shanghai-text-2006.pdf>

Links and Tips

Links on the gtz ecosan-Homepage

You'll find an extensive list of interesting links on our homepage at:

<http://www.gtz.de/en/themen/umwelt-infrastruktur/wasser/9837.htm> and

<http://www2.gtz.de/ecosan/english/links.htm>

We greatly appreciate any comments and contributions: ecosan@gtz.de

Virus information

Sometimes viruses steal our addresses from other computers and use them to distribute themselves. We know that this problem is common for e-mail addresses that have been saved by many people, but unfortunately, we cannot prevent this from happening.

We would therefore recommend that you ensure all your mails are scanned by an up-to-date virus scanner and that you do not open any obscure attachments. Our newsletter is sent as plain text, with no attachments of any sort, instead, documents are always offered as download-links from our website. **If you do receive an e-mail from us with an attachment claiming to be related to the newsletter, do not open the attachment.**

Homepage

Would you like to know more about gtz's sectoral project ecosan or about the subject in general? If so, visit our homepage.

<http://www.gtz.de/ecosan>

Newsletter

If you would like to contact the administrators of this newsletter please send an e-mail to:

owner-ecosan@mailserv.gtz.de

Your proposals for contributions to the newsletter, and any inquiries and comments you may have are always welcome.

Contact

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**Mailing list /
Newsletter**

**- user
information**

How to use the ecosan mailing list

You can interact with the Majordomo software of our mailing list server by e-mailing commands to:

majordomo@mailserv.gtz.de

Commands must be the only text in the e-mail, and not as part of the subject line! You can send several commands in one and the same e-mail message. Just be sure to start a new line for each command.

If you attach a signature block to the end of your e-mailed messages, the Majordomo software could perhaps mistake it for another command, so please enter the word "end" by itself in the line below the last command.

Useful mailing-list commands:

subscribe ecosan

Use this command to subscribe to the ecosan mailing list

subscribe ecosan [your.name@xy.org](#)

Use this command to receive the newsletter at an address other than that listed in your registration (e.g. if you send the e-mail from your workplace account, but wish to have the newsletter sent to your private e-mail address).

unsubscribe ecosan

Use this command to cancel your subscription.

unsubscribe ecosan [your.name@xy.org](#)

Use this command to de-register your receiving address, if this differs from the one that you are currently using to send the request.

info ecosan

Use this command to request general introductory information about the ecosan mailing list.

index ecosan

Use this command to obtain a list of files sent so far via the mailing list.

get ecosan <filename>

Use this command to obtain a specific file sent via the mailing list (e.g., an archived newsletter).

help

Use this command to obtain information on how to use the Majordomo software.

end

Use this command to terminate a list of commands, e.g., especially if your mailer attaches an automatic signature.

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