

ecosan – newsletter - Nr. 28 - 06/2008 - 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. 28!

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:

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English: <http://www.gtz.de/de/Dokumente/en-ecosan-nl28-2008.pdf>

Chinese*: <http://www.gtz.de/de/Dokumente/cn-ecosan-nl28-2008.pdf>

[from around July 2008]

* 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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 - Egypt: Team leader for the water sector reform programme – Cairo (gtz)
 - Ethiopia: Plumber and electrical / sanitary engineer for the University Capacity Building Programme "UCBP" (gtz IS)
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 - Philippines: peri-urban ecosan in San Fernando, northern Luzon
 - Zambia: Madimba eco-village model launched

- Publications** - A community guide to environmental health - Hesperian Foundation
- Opportunities for sanitation marketing in Uganda
- New on the net** - Interesting ecosan related reports are on-line at WRC in RSA
- Flickr: new groups for world water day and sanitation
- Sanitation declarations since 2003
- Trainings and courses**
- Worldwide Internet course "Fundamentals and applications of ecosan" 27/10/2008 to 27/02/2009
 - Worldwide: Internet course "Solid waste management" 01/09/2008 to 22/12/2008
 - Nepal: ecosan capacity building
 - Norway: Sustainable sanitation - decentralised, natural and ecological wastewater treatment 03/-27/06/2008
 - India: Capacity Building for Ecological Sanitation (e-learning) 09-16/06/2008
 - Peru: First capacity building course for ecosan and sustainable organic waste and wastewater treatment 23-24/05/2008 and 30-31/05/2008, La Molina
 - Philippines: Ecosan for Engineers 19/06/2008, Cagayan de Oro City
 - Sweden: Advanced International Training Programme (ITP) in Ecological Sanitation 2008/2009, Stockholm
- Events – new**
- 10-15/09/08 4th International Seminar on public health engineering, Florianopolis, Brazil
 - 24-26/09/08 NETSSAF International Conference, Ouagadougou, Burkina Faso
 - 30/9-1/10/08 Conference "Millennium Development Goals on Sanitation", Netherlands
 - 13-17/10/08 Aguasan-Workshop, St. Gallen, Switzerland
 - 17-27/10/08 Exposure and Dialogue Programme (EDP), India
 - 18-19/11/08 International Conference - Sustainable Environmental Technology and Sanitation for Tropical Region, Surabaya, Indonesia
 - 16-21/11/08 3rd South Asian Conference on Sanitation (SACOSAN-III), New Delhi, India
 - 19-21/11/08 Sanitation for the Urban Poor: Partnerships and Governance, Delft und Amsterdam, The Netherlands
- Events - Reminder**
- 14/6-14/9/08 EXPO Zaragoza 2008: Water for Sustainable Development, 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
 - 25-27/06/08 IAMO forum: agri-food business global challenges, Halle (Saale), Germany
 - 06-09/07/08 1st international conference on sustainable biosystems, Perth, Australia
 - 17-23/08/08 World Water Week, Stockholm, Sweden
 - 31/8-05/9/08 11th international conference on urban drainage, Edinburgh, UK
 - 01-04/09/08 13th IWRA world water congress 2008, Montpellier, France
 - 03-05/09/08 Sustainable Tourism 2008, Malta
 - 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
 - 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
 - 01-07/11/08 11th international conference on wetland systems technology or water pollution control, Indore, India
 - 04-06/11/08 World Toilet Summit and Expo, Macau, China
 - 17-20/11/08 Second Int. Symposium on Energy from Biomass & Waste, Venice, Italy
 - 15-22/03/09 5th world water forum, Istanbul, Turkey
 - 1/5-31/10/10 World EXPO 2010, Shanghai, China

In-house news

Changes in the GTZ ecosan team

As we previously indicated, the most important and decisive change in the GTZ ecosan team is that Christine Werner will regrettably be leaving us after almost 8 extremely successful years leading the GTZ ecosan Programme, with her successor, Dr. Elisabeth von Münch, taking up her post at the start of June.

Christine will be moving to Morocco with her family and will be taking over the lead of the Moroccan – German Intergrated Water Resources Management (IWRM) Programme of the GTZ in Rabat. During her time at the gtz-headquarters she substantially contributed to the enormous global progress that the development of ecosan has taken. This progress applies to the increasing variety and number of field tested recycling oriented sanitation systems, to the rapidly increasing knowledge base, to the fruitful international debate on sustainability issues in the sanitation sector and to the international recognition of the benefits of ecosan systems. Further, this progress also applies to the continually increasing number of people joining the ecosan community who further develop all types of recycling oriented sustainable sanitation approaches. For the GTZ ecosan programme Christine's move is a bitter loss, but we wish her all possible success in her new post and a good start in this challenging position which she will surely master with the same joy, energy and determination she showed during her time leading the ecosan team.

At the same time we are particularly happy to be able to welcome Dr. Elisabeth von Münch, well-known and greatly experienced person in the fields of ecosan and sustainable sanitation, who will be taking over leadership of the ecosan team from the start of June 2008. Through her previous scientific and teaching work on (eco-)sanitation at UNESCO-IHE in Delft and her professional experience in wastewater management she brings the perfect qualities to lead the GTZ ecosan programme in the coming years. Her aim will be to work in cooperation with international partners to develop good practice examples, and to work on knowledge management, capacity development, lobbying and expert exchange on ecosan, as well as to continue to strongly support the working groups of the sustainable sanitation alliance (SuSanA).

Elisabeth studied process engineering at the University of Stuttgart, Germany, and subsequently obtained her PhD from the University of Queensland, Brisbane, Australia. Over the following five years, she worked in Brisbane, first for Brisbane Water and later as an engineering consultant. In July 2004, Dr von Münch joined UNESCO-IHE in Delft, The Netherlands, as a lecturer in wastewater treatment. There her scope of work covered post-graduate education, and supervision of MSc and PhD research in sanitary engineering. Her teaching and research focus was on ecological sanitation systems (ecosan) particularly the provision of sustainable sanitation systems for the urban poor.

We are pleased to welcome the following new intern to the gtz ecosan:

- **Analiza Miso** is a former gtz-ecosan intern and obtained her M.Sc. in Agricultural Economics at Hohenheim University, Stuttgart Germany. She is currently working again as an intern at the gtz-ecosan team in Eschborn from 5 May 2008 to 5 August 2008.

Preparation for the "ecosan - Exposure Dialogprogrammes" in India

A first preparatory meeting will take place on the 18th and 19th June 2008 in Berlin for the participants already registered for the "ecosan Exposure Dialogue Programme (EDP)" to India. The EDP, planned for October this year is being prepared and carried out by the NGO "Exposure Dialogue Programme e.V" and the gtz in cooperation with Indian NGOs.

The programme enables decision makers from the spheres of politics, the economy and society in general to live with a poor family in a developing country for one day and thus to experience the impact of development cooperation projects from the perspective of this family. During this EDP families in Gujerat, Maharashtra, Karnataka and Tamil Nadu will be visited.

The idea of organising a sanitation EDP during the "International Year of Sanitation" was received very positively by the partner organisations in the "Sustainable Sanitation Alliance"(SuSanA). Therefore the participants to this EDP will come from a range of intern.

organisations. German participants include representatives of the KfW, gtz and of members of the German parliament and there will be representatives of UN Organisations from Switzerland and Sweden.

We would be pleased to provide you with more information if you would be interested in participating in the Sanitation EDP, or if you would like more general information on the EDP concept.

!!! Information: Exposure Dialogue Programme e.V. <http://www.exposure-dialog.de>

!!! Contact: Dr. Angelika Stauder stauder@exposure-dialog.de

!!! Download: Info-Sheet
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-edp-sanitation-info-sheet-2008.pdf>

Interest in the Filipino ecosan exhibition at the IFAT 2008

There was a great deal of interest among the expert public attending the IFAT 2008 (5th to the 9th of May 2008) for the Filipino urine diverting drying toilet displayed by the gtz Filipino water and sanitation programme. A large number of visitors listened to the gtz personnel manning the stand as they explained how the particular toilet functions and to the broader approach of ecological sanitation. The display was part of a broader exhibition giving an overview of German development cooperation with the gtz, KfW, InWent, bgr and other organisations exhibiting.

An up-to-date overview of the international trends and developments was presented to an audience of around 100 on the fringe of the IFAT in the Munich Hofbräuhaus. The union Ver.di organised the event under the title "Climate change, a more sustainable management of water resources – challenges for workers and businesses". Other presentations included issues such as the energy efficiency of wastewater treatment plants.

!!! Photos: IFAT stand with the Filipino ecosan exhibition
<http://www.flickr.com/photos/kikus/2481630742/>

!!! Information: Factsheet of the gtz Filipino Water and Sanitation Programme on the urine diverting drying toilet
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-uddt-factsheet-filipino-2008.pdf>

!!! Download: IFAT ecosan-poster
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-ifat-gtz-ecosan-poster-2008.pdf>

!!! Download: ecosan – Overview presentation from the ver.di event
<http://www2.gtz.de/dokumente/oe44/ecosan/en-ecosan-vortrag-verdi-personalraetekonferenz-2008.pdf>

up-date on the Stockholm World Water Week

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

Organiser: Stockholm International Water Institute (SIWI)

A glance at the "2nd Announcement" for the Stockholm World Water Week will delight sanitation experts and promoters – no less than 39 different events will be directly addressing sanitation. How can sustainable approaches be used to achieve the sanitation linked MDGs? This question in particular, and sustainability aspects in general, will be discussed during many of these sessions.

We would therefore like to call on all sanitation experts to participate actively in the Stockholm World Water Week and thus contribute to further promoting the consideration of sustainability aspects in the choice and implementation of projects.

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

!!! Contact: secretariat.www@siwi.org

!!! Download: http://www.worldwaterweek.org/Downloads/2nd_Announcement_2008.pdf

!!! **Download:** <http://www.worldwaterweek.org/Downloads/Overview.pdf>

The next meeting of the steering group of the Sustainable Sanitation Alliance (SuSanA) will take place in Stockholm directly after the Water Week from the 22nd to the 24th August. Further information on this will be published on the SuSanA web-site.

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

News from the IWA SG

News from the IWA specialist group "resources-oriented sanitation - ecosan"

Dear members of the IWA specialist group on "resources-oriented sanitation - ecosan": Since issue no. 21, the gtz ecosan newsletter contains a contribution for the members of the IWA specialist group on "resources-oriented sanitation, ecosan". All members of the group are cordially invited to submit their contributions.

At the Conference "Sanitation Challenge" in Wageningen (The Netherlands), the Specialist Group (SG) met on 20th May 2008 with 15 participants. Main points on the agenda were:

Activities at 6th IWA World Water Congress in Vienna 7th – 12th September 2008:

The IWA Sanitation21 group is organizing a half day workshop at the congress. The IWA SG is presently investigating the possibilities for cooperation with them and with SuSanA in this workshop.

One stand at the exhibition is planned in cooperation between EcoSan Club Austria, SuSanA, EcoSanRes (SEI) and the IWA SG.

Günter Langergraber and EcoSan Club Austria also invited the SG members for a trekking tour Friday and Saturday after the IWA WWC (12+13 September 2008) to the Schiestlhaus, a new refuge hut in the Alps with an innovative water and energy concept. You should however be prepared for serious hiking, not just a leisure walk - the Alps are steep. More detailed information regarding this will be sent by email.

Possibilities for the next SG conference:

IWA SG is presently investigating several possibilities for a SG conference in the autumn of 2009 or in 2010. The possibilities investigated are a) use of the Swedish chairmanship of EU to get funding for a conference in Sweden, b) cooperation with the IWA Small Wastewater Treatment SG to organise a joint specialist group conference in Girona, Spain in 2010, as we have previously cooperated with them, and c) link up with the next big International Ecosan Conference. The discussion was very preliminary and no decision taken.

Other conferences:

It was also announced that - in the well-managed series of Dry Toilet Conferences in Finland - the next one is planned for August 2009.

Development of a university outreach program:

The IWA SG discussed and decided to look into the development of a university outreach program, where the SG tries to spread the knowledge on Resources Oriented Sanitation to universities which have not yet included this in their agenda.

Request of a multidisciplinary proposal for COST Action:

Harri Mattila, Häme Polytechnic, Finland, proposed that we should prepare a multidisciplinary proposal for a COST Action. This idea was supported by the meeting, though we do not yet have a coordinator for this.

Best wishes from the expert group!

!!! Kontakt:

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 WASTE

WASTE, SNS Reaal Water Fund and Plan Nederland collaborate to reach 500.000 people in Africa with sustainable sanitation

WASTE, SNS Reaal Water Fund and Plan Nederland have formulated a joint project (2008 – 2012) to provide sustainable sanitation systems in 5 African countries.

The project aims to provide in 5 cities a sanitation system (toilets plus services) to 62 500 households (312 500 persons) in 2012, and a total 103 700 households (518 500 persons) at the horizon of 2018 through reinvestments of the collected payments.

The objective is to provide good toilet facilities at the household level or in public places in the peri-urban areas, together with a service to empty, collect, transport and manage the excreta, aiming to recycle the nutrients in excreta for agriculture and possibly for biogas. In the African context fertilizers are sparsely used due to high prices, and the nutrients in human excreta can have a significant impact on crop production.

DGIS (The Dutch Ministry of Foreign Affairs) has approved the project and contributes half of the estimated € 7M budget. SNS Reaal Water Fund is committed to providing loans, under the pre-condition that the investment proposal of the concrete project is approved by their internal Investment Committee, valuing the other half to bankable projects in the cities involved.

!!! Download: -1-page project description

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-waste-sustainable-in-peri-urban-areas-project-africa-2008.pdf>

National Inception Workshop on ISSUE-2 held on 26th May, 2008 in Dhaka, Bangladesh

A National Inception Workshop on ISSUE-2 was held on May 26th 2008 in Dhaka, Bangladesh. It was organised by the Bangladesh Association for Social Advancement (BASA) and Practical Action Bangladesh and a two-page workshop report can give you some in-sight into the activities of the Bangladesh-ISSUE-2 Programme.

!!! Download: 2-page Workshop report ISSUE-2 Bangladesh

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-workshop-report-issue2-dhaka-bangladesh-2008.pdf>

!!! Downloads: with some general information on the ISSUE-Programms

<http://www.adb.org/Water/Operations/2007/International-Conference-Sanitation/CityNet-Manila.pdf>

<http://www.waste.nl/redir/content/download/1498/9681/file/embul%2058.pdf>

!!! Contact: Kzaman Bhuiyan kzamanbhuiyan@yahoo.com

News - general

Federal Ministry for Economic Cooperation and Development (BMZ) publishes dossier on Basic Sanitation Coverage

On the occasion of the UN International Year of Sanitation the German Federal Ministry for Economic Cooperation and Development (BMZ) has published a dossier on basic sanitation coverage. The dossier clearly states:

“The BMZ promotes the treatment and use of wastewater and faeces wherever this proves sensible. This closed-loop approach is being supported by the Federal Government for example through the “ecosan” project. The wastewater and sanitation systems included under the term “ecological sanitation” (ecosan) aim to ensure a hygienically and ecologically safe and economic sanitation provision, the treatment of faeces to provide fertiliser and the use of biomass for energy production”

In an interview state secretary Karin Kortmann said “Productive sanitation systems are comparable to the renewable energy approach in the energy sector.”

!!! Information: BMZ Dossier [in German]

http://www.bmz.de/de/presse/pressematerial/weltwassertag_2008/index.html

Short report on the 6th meeting of the “Sustainable Sanitation Alliance” (SuSanA) 6th – 7th May in New York, USA

The 6th steering meeting of SuSanA, which was founded at the start of 2007 as a meta-network to promote sustainable sanitation systems and support the International Year of Sanitation, took place in the 6th and 7th of May 2008 in the main UNICEF building in New York, USA, parallel to the annual meeting of the Committee for Sustainable Development.

Around 50 people took part. Along with participants from different UN Organisation (UNICEF, UNDP, WSP, WHO, WSSCC), and multi- and bi-lateral organisations (including gtz, SEI, Eawag, WASTE) were a large number of participants from north, middle and south America. Among the topics discussed were the current results of the working groups, financing initiatives for sustainable sanitation projects, the next steps SuSanA will take, the communication strategy between the partners, planned publications and planned participation and events.

The main points discussed at the meeting were the SuSanA-SEI-IWA publication “Sustainable pathways to attain the sanitation MDG” led by SEI, a discussion on the further development and structure of SuSanA and the workshop prepared by the Ashoka Foundation on innovative financing instruments for sustainable sanitation systems. The results of this workshop have been made into a publication by the WSP and a group of SuSanA partners.

The next SuSanA steering group meeting is on the 22nd – 24th of August directly following the Stockholm World Water Week 2008. During the Water Week SuSanA will be co-hosting several meetings and events.

A complete protocol of the results from the 6th steering group meeting will be available from June from the SuSanA web-site. Several of the presentations from this meeting can already be found there.

!!! 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>

India strengthens the link between its successful “Total Sanitation Campaign” and long-term sustainability aspects at a National Workshop at New Delhi

A workshop on sustainable sanitation was organised from 19th to 20th May 2008 by the Government of India (GOI, Ministry for Rural Development, Department of Drinking Water supply), together with CSE (Centre for Science and Environment, Delhi) and ESF (Ecosan Service Foundation, Pune). The idea for and potential of such a workshop had been discussed in November 2007, at a meeting of the Sustainable Sanitation Alliance (SuSanA) in New Delhi. gtz, SEI and a group of organisations active within SuSanA contributed to the preparation process.

The overall goal of the workshop was to discuss and plan how to achieve the sanitation MDG in India using systems that are as sustainable as possible. It highlighted the success of large Indian Government programmes such as the Total Sanitation Campaign (TSC) and focussed on a range of innovative and sustainable approaches to sanitation, particularly ecological sanitation. The workshop made clear that combining these innovative elements has a great potential to increase demand for hygienically safe, socially acceptable, environmentally sound and economically affordable sanitation solutions.

The workshop was attended by nearly 300 participants, among them Government Representatives from 22 Indian States and from the Central Government of India. It thereby formed a platform for sharing experiences and exchanging ideas on sustainable sanitation services between government agencies and a range of stakeholders including UN- and donor-agencies, non-governmental organizations, local bodies, women self help groups, financial institutions, legal bodies, designers, architects, town planners and sanitary materials manufacturing industries. The recommendations for actions drafted at the workshop and discussed with all participants will contribute to the development of an Indian sustainable sanitation action plan.

Comprehensive conference proceedings will be prepared by the Department of Drinking Water supply (Ministry for Rural Development, GOI). However, a summary of the recommendations, the programme and all presentations given at the workshop are available on-line now.

!!! Contact: R.K. Sinha, Department of Drinking Water supply and Rural Development, GOI rk.sinha@nic.in

!!! Info: <http://rural.nic.in/>

The Indian Minister for Rural Development, Dr. Raghuvansh Prasad Singh, underlines the importance of implementing sustainable sanitation systems for the long-term success of the India's Total Sanitation Campaign

India's Minister for Rural Development Dr. Raghuvansh Prasad Singh, State Secretary Smt. Shanta Sheela Nair, and Dr. K. Mazumdar, Deputy Advisor to the GOI on the TSC (Total Sanitation Campaign) had an informal meeting at the ministers office on 21st May 2008 with representatives from gtz, SEI, UNICEF, ESF (Ecosan Service Foundation, India) and Seecon (Society-Economy-Ecology-Consulting, Switzerland).

During the meeting the Minister reiterated what he had said during a GOI workshop on Sustainable Sanitation on the previous day: "We should join hands for a large and inclusive capacity initiative on sustainable sanitation throughout India. With the successful TSC we are going to achieve in our country the MDG-target on sanitation by 2012. A capacity initiative should ensure the sustainability of the ongoing activities at long-term."

Hon. Shanta Sheela Nair, State Secretary GOI, pointed out that "To bring together international and Indian actors in the field of sustainable sanitation will allow sharing the latest results from the many different fields connected to a holistic approach to sanitation."

ESF and UNICEF, together with the other organisations present in the meeting, will start mapping the resource base and drafting options for an inclusive way forward. Stakeholders active in the field of sustainable sanitation in India are therefore invited to contact the address below and to provide information on their respective activities.

!!! Contact: ecosanindia@gmail.com

!!! Download: Group photos from the meeting
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-meeting-total-sanitation-campaign-india-20080521.pdf>

UN-Water supported advocacy tools for the International Year of Sanitation now available from the German Toilet Organization

To contribute to the success of the IYS 2008, the German Toilet Organization (GTO), with the support of UN Water, is providing a worldwide campaign for awareness raising, advocacy and sanitation marketing. The campaign consists of three different modules to involve people at all levels of society – from children to politicians. It plays with elements of humour and addresses the need to break the taboo and encourage active public and political discussion on sanitation issues.

The campaign includes a public exhibition, as well as school contests, and is available to all interested organizations willing to carry it out in their own name, within their respective

regions. Partners can choose which of the available components they wish to apply. Worldwide application is made possible through translations into all UN languages and adaptations to various cultures.

!!! **Information:** <http://www.iys2008.org> or in German: <http://www.germantoilet.org>

!!! **Download:**

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-campaign-german-toilet-organisation-2008.pdf>

Giving sanitation the green light – WaterAid campaign

At present, sanitation is the most off-track MDG target, and lack of progress in this key area is holding up progress across all the MDGs. Robust policy frameworks, institutional strength, coherence and coordinated action are essential foundations for progress, according to a Factsheet “Giving sanitation the green light” that was launched by WaterAid at the AfricaSan 2008.

Referring to the thousands of children dying every day due to lack of sanitation a sanitation expert from Tanzania is quoted in WaterAids blog from the Durban conference. He asks: "If a country was invaded by a foreign enemy, and that enemy was killing hundreds of children every day, what do you think the government of that country would do? Would they write a proposal for action? Would they convene a meeting for next year? Would they commission research into finding a cure? Would they spend years debating which ministry should be responsible for preventing the attack? Would they find the money to respond to this attack?"

!!! **Download:** two-page-flyer “Giving sanitation the green light”

http://www.wateraid.org/documents/giving_sanitation_the_green_light.pdf

!!! **Information:** WaterAids Blog from the AfricaSan

http://www.wateraid.org/international/about_us/newsroom/6305.asp

AfricaSan 2008

<http://www-usa.africasan2008.net/indexsa.htm>

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.

Yemen: Expert for organisational development and monitoring systems – Sana'a (CIM)

The Ministry for Water and the Environment (MWE) is working on the theme of sustainable water resource management and the improvement of the water supply and is planning to create for this a department of monitoring and evaluation for which you will be responsible.

Reference number: 60074756

!!! **Job description:**

<http://www.cimonline.de/en/aspirant/101.asp?fachgebiet=Wasserversorgung%2C+Abwasser%2D+und+Abfallentsorgung&anzeige=60074756>

Yemen: Expert for Water Management – Taiz (CIM)

The National Water Resources Authority (NWRA) within the Ministry of Water and Environment (MWE) is looking for an expert in water management for the development, evaluation, revision and implementation of a water resource management action plan and for the organisation and monitoring of the work in process.

Reference number: 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 extraction and supply – Sana'a (CIM)

The Sana'a Water and Sanitation Local Corp (SWSLC), located within the Ministry for Water and Environment (MWE), has the main task of ensuring the drinking water supply for the city of Sana'a and has the goal of improving the generally poor quality of the regional (drinking) water supply. They are looking for an engineer or the maintenance of the water system on site, to identify and correct technical problems in the system and for the selection of appropriate equipment and machines.

Reference number: 60084429

!!! Job description:

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

Bolivia: Project team member / Project team leader – La Paz (gtz)

The aim of the project is to improve the drinking water supply and wastewater management in small and medium sized Bolivian towns. The programme is cooperation with the KfW. Your main tasks will be to advise and accompany the process in the development of relevant sector institutions.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-sector-detail.asp?fachgebiet=Environment+and+Infrastructure&anzeige=60080878>

Egypt: Team leader for the water sector reform programme – Cairo (gtz)

The Ministry for Water Resources and Irrigation is carrying out a major institutional reform for the implementation of the national water policy.

Your tasks will include supporting the agreement process on the reform strategy ("Vision") and to accompany and develop a trusting relation to the minister and the decision makers in the MWRI.

!!! Job description:

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

Ethiopia: Plumber and electrical / sanitary engineer for the University Capacity Building Programme "UCBP" (gtz IS)

GTZ-International Services is supporting the Ethiopian government in developing the capacity of the national construction industry. This is happening within the University Capacity Building Programme "UCBP" through the construction on 13 universities in mainly rural areas.

Posts available:

Water installer (plumber) (Master or similarly qualified) – Addis Adeba

I.D Nr: HG-111/08

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-sector-detail.asp?fachgebiet=Environment+and+Infrastructure&anzeige=60084931>

Engineer for electricity or sanitation supply – Addis Adeba, I.D Nr: HG-837/06

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-sector-detail.asp?fachgebiet=Environment+and+Infrastructure&anzeige=60082384>

Germany: Project team member for Water Policy Advisory Programme – Eschborn (gtz)

The Water Policy Advisory Programme supports the Federal Ministry for Economic Cooperation and Development (BMZ) in carrying out its steering political role and in the creation of political development processes in the water sector.

You will advise the BMZ on questions concerning international water policy. One of your main focal areas will be on „The impact of climate change on the water sector and integrated water management (IWRM)“.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-sector-detail.asp?fachgebiet=Environment+and+Infrastructure&anzeige=60032501>

Tanzania: Water Sector Advisor – Dar es Salaam (gtz)

In cooperation with other development partners, the gtz-programme supports the design and implementation of the National Water Sector Programme.

One of your tasks will be to provide 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.

!!! Job description:

<http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-sector-detail.asp?fachgebiet=Environment+and+Infrastructure&anzeige=60053551>

Germany: Engineer (B. Eng or equivalent) for water infrastructure systems

The Fraunhofer Institute for Systems and Innovation Research ISI Competence Centre “Sustainability and Infrastructure Systems” is looking for a graduate engineer, economic engineer or economist with a focus on “innovative communal (waste)water infrastructure systems” to begin as soon as possible.

I.D. Nr: ISI-2008-39

!!! Job description: <https://jobs.fraunhofer.de/Vacancies/21417/Description>

News from the Pilot projects ...

German Cooperation

Germany: Hamburg Water implements an alternative urban water management concept for 700 homes

Hamburg Water is planning an alternative urban water management concept for 700 homes on a former military barracks. The patented HAMBURG WATER Cycle® will separately collect and treat the different flow stream coming from the homes on the 35 hectare site. Rainwater will be collected using gutters and directed toward a pond serving as a rainwater retention basin and subsequently flows into a stream. The separated grey water will be treated rather simply in a semi-centralised treatment plant and also fed to the pond and stream. The black water will be enriched with further biomass and fermented. The project aims to reduce costs and energy consumption and to protect the climate.

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

!!! Download:

Pressemitteilung von HW, 2007-03-04

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/de-autarke-abwasserentsorgung-hamburg-wasser-2007.pdf>

Vorschlag für die Anwendung des HWC in Shanghai:

<http://www.gtz.de/de/dokumente/de-innovative-staedtische-infrastrukturen-expo-projekt-shanghai-text-2006.pdf>

!!! Contact: Dr. Henning Schonlau hschonlau@hww-hamburg.de

Germany: Remote monitored high-tech recycling system with potential for remote, sparsely settled areas with water deficit problems

Supported by the Federal Ministry for Education and Research, EnviroChemie GmbH, de Villeroy & Boch AG, the universities of Kaiserslautern and Bonn, the Fraunhofer Institute UMSICHT and ap system engineering GmbH are developing the KOMPLETT System for recycling grey and black water from larger buildings (e.g. hotel complexes, small settlements, leisure and shopping centres and multi-story buildings).

In a modularly constructed water treatment plant grey and black water are collected separately. The water can be treated to different degrees depending on the end use needs (right up to drinking water quality). The complete water recycling package includes innovative sanitation techniques and automated technology with a remote monitoring capacity and user friendly interface.

!!! Download: <http://www.komplett-projekt.de>

Egypt: Decentralised Wastewater Management in the Governorate of Kafr El Sheikh

The water supply and wastewater management systems in the governorate of Kafr El Sheikh have been continually developed since the start of the 1980's with the support of the KfW Development Bank. However around 70% of the population still do not have access to a central wastewater system with houses using individual wastewater collection tanks. With the development of the water supply system and the resulting increasing use at household level these tanks no longer represent a satisfactory wastewater management concept as they must be emptied much more regularly at considerable cost to the households, resulting in increased groundwater contamination and increase the risk of illness among the population.

In 2001 the GTZ project "Decentralised Wastewater Management in the Governorate of Kafr El Sheikh" began. It aims to improve the hygiene situation within rural settlements and to reduce the contaminations of water bodies. The basis of the project approach is to spread the use of simple technologies that can be planned, implemented and maintained by the communities. Decentralised approaches such as this should also be integrated into the programmes of the responsible national authorities.

Since 2005 three pilot communities have been assisted in implementing model treatment plants. The wastewater management systems consist of treatment lagoons and sludge drying beds and are maintained and administrated by small local businesses working with the user community. As the microbiological discharge quality from the treatment and polishing ponds reach the national discharge guidelines, the nutrient rich effluent is simply discharged into irrigation canals and thus reused. The user rates are collected and administrated by the community, with household tariffs now only a fraction of what they were when wastewater tanks were in use, and the money collected now suffices to cost 100% of the running and refinancing costs.

The hygiene situation within settlements has significantly improved and the project has achieved its aim of developing a model approach to the wastewater problem. There are now agreements from the Egyptian Government and the World Bank to finance treatment plants in a further 20 Villages.

!!! Download: Flyer
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-dentralised-wastewater-management-kes-flyer-2008.pdf>

!!! Contact: kirsten.doelle@gtz.de

Kenya: Up-date from the EU-ACP WF ecosan promotion project

An updated presentation on the ecosan promotion project “ecosan – an integrated approach for increased sanitation and market development” which started in November 2006 was given at the conference “Water and Sanitation in International Development and Disaster Relief”, from the 28th to the 30th May in Edinburgh, Scotland, UK.

The ecosan project on Kenya is co-financed in the framework of the EU Water Facility for African, Caribbean and Pacific Countries (EU-ACP WF). The Kenyan Ministry of Agriculture, the Ministry of Water, the Ministry of Health, SIDA (Swedish International Development Cooperation Agency), and the WWF (World Wide Fund for Nature, Kenya) are all important project partners. The project places ecosan firmly within the framework of the reuse of agricultural (organic) waste and has 4 main areas of interventions: (1) creating a favourable and enabling environment for ecosan at an institutional level; (2) establishing financing instruments and mechanisms; (3) marketing end products; (4) implementing the developed concept on a large scale.

!!! **Contact:** Hagen von Bloh, hagen.bloh-von@gtz.de

!!! **Download:** Description of the project
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-kenia-stand-alone-settlement-iwess-gtz-paper-2008.pdf>

Mongolia: UDDT instead of latrines

On the edges of Ulan-Bator, the capital of Mongolia, around 650 000 people live, with this population increasing as new settlers arrive. Until recently the standard sanitation solution here was the pit latrine, resulting in contaminated earth or groundwater and an increased risk of diarrhoea and hepatitis. This situation is aggravated by the low rainfall and water availability in Mongolia, thus hindering basic hygiene.

To address the hygiene and sanitation problem initial pilot measure introduced dry toilets requiring no water for their operation and led to no soil or groundwater contamination. The results showed “that the toilets successfully separated urine and faeces making them available for reuse in agriculture and forestry, and provide a solution for the coldest capital in the world”. Users of the urine as mineral fertiliser are mainly semi-nomads, orphanages and other institutions who cultivate a portion of their own food needs, numerous tourist camps and the Ministries of Tourism, Transport and Road Construction.

However for many households the dry toilets remain too expensive. “A widespread introduction of this approach will only really possible with the a programme of subventions” according to Ruth Erlbeck, Team leader of the GTZ Town Development Project in Mongolia.

!!! **Info:** about gtz-Project Mongolia
<http://www.gtz.de/de/weltweit/asien-pazifik/mongolei/17022.htm>

!!! **Contact:** Ruth Erlbeck: ruth.erlbeck@gtz.de

Philippines: Sanitation-summit, ecosan-training, and ecosan-implementation in the Philippines

The current issue of the Philippine gtz-WatSanSolid newsletter contains information on a range of recent events and project-updates with relation to ecosan. These include:

The Visayas-Mindanao Sanitation Summit certainly was **THE** program event, says Hanns-Bernd Kuchta, the director of the Philippine gtz-Water and Sanitation Program. Two days were filled with a lot of presentations and lively debates. The summit covered a wide range of topics – from ecosan to health care packages for schools.

Training course “capacity development for ecological sanitation”. The GTZ Water and Sanitation Program in cooperation with the Peri-urban Vegetable Project (PUVeP) and Seecon International conducted a two-weeks training at Magis Training Center Xavier University, Cagayan de Oro, in April 2008.

Enhancing sustainability of the decentralized wastewater treatment facility at the Lilo-an public market in Cebu City. This new project focuses on the sustainability of a decentralized wastewater treatment facility for the Lilo-an public market funded under a pilot and demonstration activity supported by ADB. The existing technology motivates the neighbouring municipalities and schools to do alike. However, looking for additional ways of increasing revenues and decreasing costs should further enhance the economic sustainability in the different contexts and project settings.

Building of communal urine diverting dehydration toilets (UDDT) in Linamon Lanao del Norte. Elmer (Executive Director of Lanao Foundation, Mago-ong Lanao del Norte) and Cora Sayre have won the Hagedorn award for their "Muslim-Christian Ecological Sanitation Project" at the Panibagong Paraan Competition in Puerto Princesa, sponsored by World Bank on April 9-10, 2008. The tough competition had 520 entries.

Read more on these, and several other "ecosan-related news", in the Phillipine gtz-WatSanSolid newsletter Issue 12.

!!! **Download:** Phillipine gtz-WatSanSolid newsletter Issue 12

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-gtz-watsansolid-newsletter12-2008.pdf>

News from the
pilot projects ...

other
cooperations

China: Toolkit for the 21st-Century Urban Sanitation Planner project: tool development and piloting

The Toolkit for the 21st-Century Urban Sanitation Planner consists of two tools that facilitate a shift to a new, reuse-oriented, sustainable sanitation paradigm. The first tool is a novel sustainability assessment (SA) made up of two-dimensional burden-to-benefit ratios for measuring and monitoring existing sanitation infrastructure. The second tool is a five-step 'Design for Service' (DFS) planning and decision-making protocol for developing locally tailored sanitation schemes that maximize the reuse of waste/wastewater and its embodied resources. DFS conceptualizes waste as a resource from the outset of the planning process.

The tools are currently being developed and piloted in Chengdu, Sichuan Province and with support from the Sustainable Products and Solutions Program; they will also be piloted in three additional Chinese cities and one city in West Africa over the next two years.

!!! **Contact:** Ashley Murray, PhD Candidate, Energy and Resources Group, University of California, Berkeley; amurray@ce.berkeley.edu

!!! **Download:**

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-toolkit-21th-century-urbansanitation-planner-2008.pdf>
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-toolkit-urbansanitation-gtz-ecosan-2008.pdf>

India: zero-waste toilets developed by the IIT, Kanpur

Researchers from the environmental engineering department of the Indian Institute of Technology (IIT) Kanpur have developed a toilet that will reuse the water that goes into flushing rather than discharging it along with the excreta. This will be possible by not allowing water and solid waste to mix.

The toilet design enables solid waste to be pushed downwards into a tank at the centre, while urine and flush water is guided through a separator and pumped into an overhead tank. The pipes are fitted with microfilters to clean the wastewater. In community toilets where electricity may not be available, hand pumps could be used to pump the water into the overhead tank. The tank will accumulate concentrated waste water (urine), which is rich in nitrogen, potassium and phosphorus, and can be used to produce fertiliser. The solid waste is collected at railway stations, mixed with other composting materials and processed into compost and then further processed by worms to make vermicompost.

Indian Railways has approved the design and UNICEF will be involved in pilot project involving community toilets. A basic toilet should not cost more than Rs 5,000 (EUR 84 = US\$ 125)

!!! Contact: Prof. Vinod Tare vinod@iitk.ac.in
[<http://www.iitk.ac.in/ce/CIVIL/faculty/vinod/vinod.html>]

Sources: Down to Earth [<http://tinyurl.com/2mq8g>], 22 Jan 2008; Express India
[<http://tinyurl.com/3ct8d6>], Feb. 1st 2008

from: IRC Source Newsweekly No1 – Feb. 27th 2008

Nepal: ecosan in Champapur and Kirtipur

The Environment and Public Health Organization (ENPHO) has completed the construction of 50 UDDTs in Champapur VDC. Other activities completed in this integrated program were the construction of 54 Sulabh toilets, 1250 m² of brick paving and 420 m of drainage improvement work. ENPHO has also conducted various trainings on ecosan, solid waste management, point of use drinking water treatment options, health and hygiene and water and sanitation for capacity building of local people and volunteers. Similar activities were initiated in Kirtipur under the environmental sanitation improvement program. Clean up campaigns and exposure visits were carried out in both the areas.

!!! Information: <http://www.enpho.org/sprog.htm>

Sri Lanka: National Workshop and other capacity development activities in the IYS 2008

Ecological Sanitation is one of the main issues addressed during the International Year of Sanitation in Sri Lanka. A series of events were undertaken to raise awareness on alternative sanitation approaches, to strengthen the local capacity, and to institutionalize the ecosan approach. The following events already took place:

Ecosan training for Trainers of Public Health Inspectors at National Institute for Health Science, Kalutara, January 21 – 25, 2008

The ecosan training targeted the Supervising Public Health Inspectors (SPHIs), the tutors of PHIs, and the Medical Officers of Health (MOHs). The SPHIs and MOHs will disseminate the knowledge in the field, whereas the tutors will pass on the knowledge to the next generation of PHIs. The training was conducted by seecon International and funded by IFRC/SEI.

Workshop to introduce and discuss the issues around using wastewater, grey water and sludge in agriculture, including the WHO guidelines and health issues, February 28, 2008

The workshop was conducted by SEI in collaboration with COSI and IWMI and provided both technical knowledge and a forum for discussion.

National Ecosan Workshop, April 29, 2008

This workshop targeted decision makers from different Ministries. Ministry of Health, Ministry of Water Supply and Drainage, and Ministry of Local Governments endorsed the concept of ecosan. An action plan was agreed and cooperation between different ministries facilitated. The workshop was organised and financed by IFRC/SEI, IWMI, IOM, and UNICEF together with the Ministry of Health and Nutrition and Ministry of Water Supply and Drainage.

!!! Contact: For more information and downloads related to the workshops
c.windberg@tuhh.de

!!! Download: Sri Lanka National ecosan Workshop, 29th April 2008, DRAFT-Report
http://www.ecosanres.org/pdf_files/ESR-Sri-Lanka-DRAFT-Post-workshop-report.pdf

Philippines: peri-urban ecosan in San Fernando, northern Luzon

Interesting information on the success of the San Fernando ecosan-project run by CAPS (Center for Advanced Philippine Studies) and the ADB (Asian Development Bank) is found in the March 2008 issue of the ADB-newsletter. It reports on the 360 households and 3 schools within San Fernando City that have ecosan-systems with Urine-Diversion Dehydration-Toilets (UDDTs) and agricultural reuse in an peri-urban context. The project is rapidly growing to serve more and more people. San Fernando City up-dated its Sanitation-code and passed its Sanitation Strategic Plan, which calls for the construction of another 1000 ecosan systems by 2010, among other things.

!!! Download: ADB-newsletter, march 2008

<http://www.adb.org/water/printer-friendly.asp?url=/water/actions/PHI/San-Fernando.asp>

Zambia: Madimba eco-village model launched

The Community Development and Social Services Minister, Catherine Namugala, launched an eco-village model project in Zambia that aims at transforming Lusaka's informal peri-urban settlement "Madimba" into an Eco-Village Model. Speaking at the same function, the Finnish ambassador to Zambia, Sinikka Antila, said the project was founded by the Finnish Government with other co-operating partners. She said Finland and Zambia have been collaborating in areas like the environment, health and private sector development and will continue to do so in order to help improving the living standards for the people of Zambia.

The project is an initiative of the Network for Environmental Concerns and Solutions (NECOS), a community based non-governmental organization which was founded in 2004. It addresses community problems of Madimba compound, such as the cholera outbreak of that year. NECOS President Obed Kawanga underlined that environmental and social-economic concerns should be handled together with all concerned residents and stakeholders.

Two articles on the launch of this multidirectional ecological and socio-economic eco-village project are available on-line.

!!! Download: <http://www.lusakatimes.com/?p=2346> and

<http://www.necos.bplaced.net>

!!! Contact: Obed Chibwe Kawanga: okawanga2001@yahoo.com

Publications

A community guide to environmental health - Hesperian Foundation

Jeff Conant and Pam Fadem (2008) A Community Guide to Environmental Health. - Paperback, 600 pages, illustrated; Hesperian Foundation, Berkeley, California, USA; ISBN: 978-0-942364-56-9

This highly illustrated guide helps health promoters, development workers, environmental activists, and community leaders take charge of their environmental health. In small villages and large cities it can provide the tools, knowledge, and inspiration to begin transforming the crisis in environmental health.

The book contains an up-dated version of the great Hesperian-publication "Sanitation and Cleanliness for a Healthy Environment" by Jeff Conant (2005).

The comment of Ingvar Andersson (former Head of Water Division, Sida) on this book is: "You have produced something quite extraordinary. The Community Guide will certainly be much used for the benefit of poor communities around the world. Too little has been done to provide this type of practical and useful information to communities. The human rights approach in the guide is especially useful."

The book is available with or without a CD - or as download.

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

Book plus CD

http://www.hesperian.org/mm5/merchant.mvc?Screen=PROD&Store_Code=HB&Product_Code=B160C&Category_Code=ENG

!!! Download: http://www.hesperian.org/publications_download.php

Opportunities for sanitation marketing in Uganda

Outlaw, T.; Jenkins, M. and Scott, B. (2007) Opportunities for sanitation marketing in Uganda. Washington, DC, USA, USAID. – viii, 53 p.

This report presents a brief overview of the Uganda sanitation sector and a presentation of key findings from the trip made by a team of consultants from the Hygiene Improvement Project to Uganda. It provides multiple options – both short- and long-term - for building the various components of an effective sanitation marketing programme in Uganda.

Ecosan and productive sanitation systems are not mentioned in this report. However, when using this report as a base for designing your own marketing strategy they can be easily included into the suggested marketing frame work.

!!! Download: <http://www.hip.watsan.net/page/2268>

from: IRC Source Weekly, No. 2, March 20th 2008

New on the net

Interesting ecosan related reports are on-line at WRC in RSA

An interesting and growing collection of ecosan related reports is available at the website of the WRC (Water Research Commission) of the RSA (Republic of South Africa). One of the focuses is the documentation of experiences with and research on large ecosan project - e.g. in Durban with currently more than 60 000 UDDTs (Urine Diversion Dehydration Toilets).

!!! Information: http://www.wrc.org.za/publications_reports2.htm

Flicker: new groups for world water day and sanitation

A number of interesting water and sanitation photo collections can be found on Flickr, the online photo sharing web site. Members of the Sustainable Sanitation Alliance (SuSaNa) have set up a Flickr group on "Sustainable Sanitation". So far most of the photos deal with ecological sanitation (ecosan). Several sets of photos on sanitation (including school sanitation, ecosan and wastewater treatment) in India can be found in the Flickr collection managed by India Water Portal.

!!! Website: <http://www.flickr.com/groups/sanitation/>

!!! Website: <http://www.flickr.com/photos/indiawaterportal>

Sanitation declarations since 2003

Duncan Mara has put together a webpage with the declarations of the regional sanitation conferences (AfricaSan, SacoSan, EaSan, LatinoSan) since 2003.

!!! Information:

<http://www.personal.leeds.ac.uk/~cen6ddm/SanitationDeclarations.html>

Trainings and courses

Worldwide Internet course "Fundamentals and applications of ecosan" 27th October 2008 - 2nd February 2009

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:

1. introduction to ecosan (4 weeks)
2. transport and treatment of excreta and grey water (6 weeks)
3. agricultural reuse (2 weeks)
4. water demand management & rain water harvesting (2 weeks)
5. non-technical aspects (2 weeks)

The course runs for 18 weeks in a part-time format. On average students should spend around 9 hours a week studying. They have to do 2 assignments (done in groups of 3) consisting of preparing PPT-presentations on various topics.

The course is designed for mid-career professionals who work in low-income countries or countries in transition, and deal with planning, promoting, designing, operating or managing sanitation systems for residents in urban, peri-urban, slum or rural areas.

A demo version of the course (including free access to all course materials) is offered from UNESCO-IHE. Furthermore, a feed-back of the realized 3rd online course is also now available.

!!! Information on the course:

http://www.unesco-ihe.org/education/short_courses/online_courses/ecological_sanitation

!!! Information: Demo-version of the UNESCO-IHE online ecosan-course

<http://www.lms.ihe.nl> (login: ecosandemo, password: 1234)

!!! Download (Feed-back of 3rd online course):

<http://www2.gtzt.de/dokumente/oe44/ecosan/nl/en-fundamentals-and-application-of-ecosan-3rdcoursefeedback-2008.pdf>

!!! Download (Registration form):

http://www.unesco-ihe.org/education/prospective_students/application_forms

!!! Contact: Mariska Ronteltap: m.ronteltap@unesco-ihe.org

Worldwide: Internet course "Solid waste management" 1st September - 22nd December 2008

Organisation: UNESCO-IHE, Delft

Taking the successful ECOSAN online course as an example, UNESCO-IHE is now also offering an online course in Solid Waste Management.

The course provides an introduction to different aspects of Solid Waste Management: collection and transport, reuse, reduction and recycling, organisational and legislative aspects, stakeholders in solid waste management and social and cultural aspects. Examples of solid waste handling practices from all over the world are given, and the financial burdens and benefits as well as solutions are discussed in detail.

The material presented will help participants to make informed decisions in their professional activities. It will assist them in defining and implementing integrated solutions to the challenges posed by solid wastes in the urban environment. The course will support participants planning and setting up a solid waste management system that is capable of functioning not only in situations where sufficient resources are available but also under the more challenging conditions usually prevailing in cities in low-income countries. The teaching methods make use of different forms of materials: presentation slides, scientific articles, reader material, video and audio presentations. The students virtually meet colleagues from all over the world and can build up a very useful network, and all this without having to leave home!

!!! Information and registration:

http://www.unesco-ihe.org/education/short_courses/online_courses/solid_waste_management_and_engineering

!!! Contact: Mariska Ronteltap: m.ronteltap@unesco-ihe.org

Nepal: ecosan capacity building in Nepal

Organisation: ENPHO (Environment and Public Health Organization)

Several innovative technologies and practices have been developed and piloted in Nepal to address various aspects of sanitation and its promotion. As part of the International Year of Sanitation 2008 celebrations, Environment and Public Health Organization (ENPHO) is planning to organise a series of training called "Sanitation and Hygiene Improvement Training" (SHIT), which will focus on appropriate technologies and practices for effective sanitation. Sanitation engineers, programme managers, researchers and environmental science/engineering students will benefit from this 2-3 day training program.

!!! Information: http://www.enpho.org/resource_center.htm

**Norway: Sustainable sanitation - decentralised, natural and ecological wastewater treatment
3rd - 27th June 2008**

Organisation: UMB (Norwegian University of Life Science)

This training course looks at sustainable sanitation solutions for rich and poor countries. The different systems will be presented by international experts using case studies. Students will be challenged through inductive learning through cases studies from all over the world, including from crisis areas as well as dry, humid, cold climates to suggest systems and to develop them themselves. Lectures will be given on important topics on the functioning and implementation of these systems. The focal point will be on decentralised, nature-near systems (wastewater treatment ponds, infiltration and sand filters), combined treatment of wastewater and grey water, small diameter sewer systems, pressure and vacuum systems, gravity systems, separating systems (dry toilets, urine diversion toilets, black water systems) as well as anaerobic treatment for the production of biogas or fertiliser from faeces and organic household waste. Both the technical and socio-economic parameters of successful improvements in sanitation supply will be dealt with.

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

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

**India: Capacity Building for Ecological Sanitation (e-learning)
09th - 16th June 2008**

Organisation: ESF (Ecosan Service Foundation, Pune)

The internet course "Capacity building for ecological sanitation" will take place from the 9th to the 16th of June 2008. The target groups for the course are people working in south-east Asia and the course will be lead by internationally known ecosan experts. Participation is free although participants will require an internet connection

!!! Information: (Internet course)
<http://www.ecosanservices.org/page.php?id=1165>

!!! Registration: (Internet course)
<http://www.ecosanservices.org/page.php?id=1194>

!!! Contact: sreevidya.satish@eosanservices.org

Peru: First capacity building course for ecosan and sustainable organic waste and wastewater treatment 23rd/24th and 30th/31st May 2008, La Molina

Organisation: gtz-Peru and National Agricultural University La Molina

The first capacity building course in the International Year of Sanitation for ecological sanitation and sustainable projects for treatment of wastewater and organic residues is organized by gtz-Peru and the Department of rural constructions of the National Agricultural University of La Molina, Peru.

The lectures of the 4 day course cover an introduction to ecological sanitation, economic technologies for sustainable treatment such as anaerobic digesters, constructed wetlands or dry sanitation, international ecosan projects and the potential of ecosan in Peru and are supplemented by a technical visit to the Christoforus College in Lima where black water, grey water and organic wastes are treated and reused in a sustainable manner. Professor Heike Hoffmann (PhD), specialist for operation of wastewater treatment plants and ecosan, is looking forward to organising similar events also in other parts of Peru.

!!! Information: http://www.lamolina.edu.pe/eventos/agricola/2008_cursos/dcr/

!!! Contact: Heike Hoffmann: heike@rotaria.net

Philippines: Ecosan for Engineers June 19th 2008, Cagayan de Oro City

Organisation: Philippine Institute of Civil Engineers (PICE)

The Philippine Institute of Civil Engineers (PICE) in cooperation with the Xavier University Engineering Resource Center and the newly established Ecosan Training and Research Center (XUERC) for Southeast Asia and the Pacific will organize a seminar "Ecosan for Engineers" on June 19, 2008 from 8:00 am to 5:00 pm at the Pearlmont Inn, Limketkai Drive in Cagayan de Oro City, Philippines. The seminar is specifically designed for engineers interested on the Ecological sanitation or "ecosan paradigm. Discussions will also include the medical and agricultural dimensions of which the engineering methods involved in this technology will have significant impacts to the promise of a true beneficial integrated sustainable development for society. The presentations of the seminar will be given by famous ecosan experts namely: Engr. Dexter S. Lo Coordinator, XUERC; Dr. Robert J. Holmer Director, Ecosan Center; Dr. Gina S. Itchon Research Director, Ecosan Center Mr. Horacio S. Factura Intern, Gesellschaft für Technische Zusammenarbeit GmbH and; Ms. Jeannette M. E. Tramhel Graduate Student, Faculty of Environmental Design, University of Calgary – Canada.

!!! Kontakt: Merlyn G. Bangoy: mgbangoy59@yahoo.com
Dexter S. Lo: d.lo@xu.edu.ph

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

Organisation: Stockholm Environment Institute

This advanced international ecosan training programme examines attractive sanitation solutions for urban and peri-urban areas in order to support the improvement of health, dignity and nutrition and indicate possibilities for the protection of water bodies.

The target group is specialists from specific countries throughout Africa, Asia and EECCA (Eastern Europe, Caucasus, Central Asia) working in town planning, water supply, water management, hygiene and with socio-economic boundary conditions. It is also aimed at teachers and trainers working with sustainable sanitation concepts and decision makers with NGO's active in the fields of water and sanitation.

- !!! Deadline:** 1st April 2008 (für Afrika und Lateinamerika)
1st May 2008 (für Asien, Osteuropa und Zentralasien)
- !!! Information:** <http://www.ecosanres.org/ITP2008.htm>
- !!! Contact:** solveig.nilsson@sei.se

Events

new

Brazil: 4th International Seminar on public health engineering 10th - 15th September 2008, Florianopolis

Organisation: National Health Foundation (Funasa)

The National Health Foundation of the Brazilian Health Ministry (Funasa) will promote this seminar on the theme of "Public Health, Socio-environmental Responsibility, and Excellence in Management."

The objective of the seminar is to discuss and evaluate the public policies of environmental sanitation and social inclusion, the sustainability strategies of these actions, and to diffuse the innovations and successful experiences of public health engineering in their technological, managerial and social approaches.

!!! Information: <http://www.funasa.gov.br>

!!! Contact: densp.seminario@funasa.gov.br

Burkina Faso: NETSSAF International Conference 24th – 26th September 2008, Ouagadougou

Organisation: NETSSAF

NETSSAF is a Coordination Action funded by the European Commission within the 6th framework programme, which began in June 2006. The project, which lasts for 2.5 years, is composed of a consortium of 19 partners from 12 different West African and European nations, who have different expertise in the fields of sustainable sanitation and rural development.

The aim of the proposed network was to develop a variety of innovative, adaptable and replicable approaches to sustainable sanitation, integrating appropriate low-cost technologies with community-based management and their relevant governance, institutional frameworks and socio-economic constraints.

The general objective of the conference is to bring together members of the NETSSAF consortium jointly with national and regional decision makers, sanitation professionals, practitioners and scientists to present the results of the Coordination Action and discuss future trends and directions concerning the large scale implementation of sustainable approaches of sanitation in rural and peri-urban areas in West Africa.

!!! Deadline for Registration: 31.08.2008

!!! Information: <http://www.netssaf.net/240.0.html>

!!! Download: <http://www.netssaf.net/281.0.html?&L=0>

!!! Contact: Orokia Sanon: sanon.orokia@reseaucrepa.org

Netherlands: Conference "Millennium Development Goals on Sanitation 30th September – 1st October 2008, Amsterdam

Organisation: IWA

In the conference "Millennium Development Goals on Sanitation" the best practices and case studies to learn lessons associated with both successes and failures shall be presented along with innovations, the implementation of new sanitation concepts and the social-spatial embedding of innovative sanitation solutions.

The combination with Aquatech, one of the main exhibition shows in the Water Industry, offers the possibility to exchange practical solutions and stimulate the exhibitors and visitors of Aquatech to attend this conference and share their views.

!!! Information:

http://www.amsterdam.aquatechtrade.com/aquatechamsterdam2008/e/exp_overig160

!!! Contact: Conference secretariat: info@moorga.com

Switzerland: Aguasan-Workshop
13th – 17th October 2008, St. Gallen

Organisation: Skat

Skat regularly organises workshops, conferences, trainings, study tours and exposure trips, often together with partner organisations in the North and the South.

The workshop aims to find answers to the following key questions:

1. What are promising and proven alternative management models that can be fostered?
2. What evidence suggests a specific management model to support the sustainability and pro-poor aspects of a given service?
3. How to increase the number of managerial options commonly made available to communities?
4. How can we support capacity building of actors and decision-takers towards making informed choices?

!!! Information: http://www.skat.ch/uptodate/all_events

!!! Contact: Roger Schmid aguasan24@skat.ch

India: Exposure and Dialogue Programme (EDP)
17th – 27th October 2008

Organisation: Exposure- und Dialogprogramme e.V.

What are the success criteria for the implementation and dissemination of sustainable sanitation systems? How can users be more involved in decision making processes and the required legal framework delivered? These and other questions will be considered by decision makers from the 17th to the 27th of October in an EDP in India.

!!! Information: <http://www.exposure-dialog.de/aktuelles/aktuelles.html#Indien>

!!! Contact: Dr. Angelika Stauder stauder@exposure-dialog.de

Indonesia: International Conference - Sustainable Environmental Technology and Sanitation for Tropical Region
18th – 19th November 2008, Surabaya

Organisation: Sepuluh Nopember Institute of Technology (ITS), Department of Environmental Engineering

The conference aims to bring in both national and international expertise to promote the importance of environmental sanitation in Indonesia. Main themes are: clean water, waste water, air quality and solid waste.

!!! Contact: Dept. of Environmental Engineering, ITS, Indonesia
dipareza@enviro.its.ac.id

!!! Information: <http://enviro-its.org/international-conference-2008/>

**India: 3rd South Asian Conference on Sanitation (SACOSAN-III)
16th – 21st November 2008, New Delhi**

Organisation: Members of UN-Water Task Force on Sanitation

The South Asia Conference on Sanitation (SACOSAN) is a high-powered ministerial conference held in South Asia devoted solely to the subject of sanitation. The conference is intended to develop a regional agenda on sanitation, enabling the learning from experiences and setting forth action for the future. The overall goal of the conference is to accelerate the progress of sanitation and hygiene in South Asia to enhance peoples' quality of life in fulfilment of MDGs and the commitments made in the World Summit on Sustainable Development.

The theme of the Third South Asian Conference on Sanitation (SACOSAN-III) is on "Sanitation for Dignity and Health". SACOSAN-III aims to consolidate and look beyond the concepts discussed in the last two SACOSAN conferences. It is proposed to focus on issues of sustainable sanitation, making it people-centred, addressing gender issues in sanitation, economic gains of good sanitation, aspects of emergency situations and legal aspects relating to clean environment.

!!! Information: <http://ddws.gov.in/infosacosan/theme.htm>
http://www.unwac.org/pdf/wac_newsletters/WAC_News_Mar-Apr_2008.pdf

**The Netherlands: Sanitation for the Urban Poor: Partnerships and Governance
19th – 21st November 2008, Delft und Amsterdam**

Organisation: IRC International Water and Sanitation Centre

Linked to the 40th anniversary of IRC, the symposium will also formally close the International Year of Sanitation 2008 [<http://esa.un.org/iys/>] for the Dutch water and sanitation sector.

Topics include: local urban governance, partnerships for sanitation for the urban poor, dynamics of urban settlements, innovative finance, urban sanitation technologies

!!! Information: <http://www.irc.nl/symposium2008>

!!! Contact: Symposium team symposium@irc.nl

Events Reminder

**Spain: EXPO Zaragoza 2008: Water for Sustainable Development
14th 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>

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

Italy: International Symposium on Sanitary and Environmental Engineering
24th – 27th June 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

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>

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

Malta: **Sustainable Tourism 2008**
03rd – 05th September 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: krobberts@wessex.ac.uk

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

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>

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

**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

**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

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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ecosan project – ecologically and economically sustainable wastewater management and sanitation systems

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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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