





ecosan - newsletter - no. 21 - 08/2006 - 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. 21!

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://www2.qtz.de/Dokumente/oe44/ecosan/nl/de-ecosan-nl21-2006.pdf
Spanish: http://www2.qtz.de/Dokumente/oe44/ecosan/nl/es-ecosan-nl21-2006.pdf
French: http://www2.qtz.de/Dokumente/oe44/ecosan/nl/fr-ecosan-nl21-2006.pdf
English: http://www2.qtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-nl21-2006.pdf
Chinese: http://www2.qtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-nl21-2006.pdf
(from September 2006)

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!

gtz ecosan program recycling oriented wastewater management and sanitation systems

commissioned by



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





Contents

- In-house News The newly renovated GTZ main building with an integrated ecosan demonstration project came into service in June 2006
 - DWA/BMZ/GTZ ecosan Symposium on the 26th and 27th October 2006 in Eschborn
 - Now online: Collection of material on "capacity building" for ecosan
 - Changes in the GTZ ecosan team
 - The IWA Expert group on ecosan now using the GTZ ecosan Newsletter as a platform

specialist group on ecosan

News from the IWA - News from the IWA expert group on "ecological sanitation"

EcoSanRes

News from - The new EcoSanRes 5 year programme (2006-2010) sets its focus on capacity building and knowledge management

Bangkok

World Toilet Expo - The "World Toilet Expo & Forum 2006" takes place from the 16th to the 18th November, 2006, in Bangkok focussing on the importance of sustainable sanitation systems

postponed

Ecocity 6 - Ecocity 6 has been postponed to 3rd- 6th December 2006.

- News general WHO presents new guidelines on the use of wastewater, excreta and greywater in agriculture and aquaculture
 - "Sanitation is Dignity" successful event of the German Toilet Organization travels to Switzerland
 - 2 million German homes could be heated with energy from wastewater
 - New journal for ecosan publications
 - Co-Funding: Proposals invited for small-scale water and sanitation projects

Job - Tunisia (Tunis): Advisor "Efficient water planning" – GTZ

- announcements Jordan (Amman): Expert for Water Management CIM
 - Jobs in "Water and Sanitation" with the DED
 - Switzerland: Environmental Sanitation Research Positions Sandec
 - India: Expert for Water Sector Reform GTZ, Call for tenders

- News from pilot Ethiopia: ecosan for large scale housing programms
 - projects Ghana: ecosan at the Valley View University Campus, Accra - India: ecosan concept for the University of Kalyani (near Calcutta)
 - German cooperation
- The Philippines: WHO delegation visits ecosan projects in Cagayan de Oro

- News from pilot The Netherlands: ecosan in the UNESCO-IHE building in Delft
 - projects India: ecosan project near Chennai, Tamil Nadu
 - Australia: Urban wastewater recycling in Queensland - others

- Publications Cost analysis of ecosan in peri-urban Lusaka M. Sc. Thesis
- ...on the web Greywater use in arid regions M. Sc. Thesis
 - Ecosan considerations for women Fact Sheet - Urban ecosan - Introduction to the China-Sweden Erdos-Eco-Town-Project

Training and 01/10-26/11/06 Web Based Training on the efficient management of wastewater

courses 30/10-22/12/06 Sweden: Biological Waste Treatment Technology for Urban Wastes, Swedish University of Agricultural Sciences

Events - new 04-06/09/06

Italy: 8th International Conference on Modelling, Monitoring and Management

of Water Pollution 06-09/09/06

Russia: World Toilet Summit and Expo 2006 China: IWA-World Water Congress and Exhibition 10-14/09/06

The Netherlands: Symposium Sustainable Water Supply and Sanitation 26-28/09/06

08-11/10/06 Australia: First National Hydropolis Conference in Rainwater

Germany: Entsorga-Enteco 2006 24-27/10/06

Germany: DWA/BMZ/GTZ ecosan Symposium in Eschborn 26-27/10/06





	13-15/11/06 16-18/11/06 17-18/11/06 03-06/12/06 12-16/12/06 21-24/03/07 05-07/09/07 01-05/10/07 March 2009	UK: 11 th European Biosolids and Organic Resources Conference, Workshop and Exhibition. Thailand: World Toilet Expo and Forum 2006 Brasil: RIO 6 World Climate and Energy Event India: Ecocity 6 The Philippines: EAS Congress 2006 Tunisia: Meda Water Int. Conference on Sustainable Water Management Portugal: ECOSUD 2007 Italien: Sardinia Symposium 2007 Turkey: 5 th World Water Forum
Events – reminder	11-13/09/06	Botswana: International Conference on Environmentally Sound Technology
	18-22/09/06	in Water Resources Management Jordan: Global Conference on Environmentally Sound Technology in Water Resource Management
	23-29/09/06	Portugal: 10 th International Conference on Wetland Systems for Water Pollution Control
	11-13/10/06	Germany: Tropentag 2006 – Prosperity and Poverty in a Globalized World. Challenges for Agricultural research.
	17-18/10/06	Germany: 1. Aachener Kongress Dezentrale Infrastruktur Wasser-Energie- Abfall
	28-30/10/06	Greece: 1 st International Symposium on Water and Wastewater Technologies in Ancient Civilisations (WWTAC'06)
	30/10-1/11/06	Jordan: Regional EMWater Project Conference on Efficient Management of Wastewater Treament and Reuse
	01-03/11/06	Lebanon: Water Resources in the Mediterranean Basin
	07/11/06	Austria: "Shit Happens IV" – Kreislauforientierte Abwassersysteme: Eine Moeglichkeit fuer den alpinen Raum?
	13-17/11/06	Sri Lanka: Sustainable Development of Water Resources, Water Supply and Environmental Sanitation
	10-15/03/07	USA: 16 th Annual Technical Education Conference and Exposition
	12-13/03/07	Germany: Advanced Sanitation
	28/10-01/11/07	Australia: 2 nd IWA-ASPIRE Asia-Pacific Regional Group Conference and Exhibition

In-house news

The newly renovated GTZ main building with an integrated ecosan demonstration project came into service in June 2006

In June 2006, the GTZ moved back into its newly renovated main building in Eschborn, and the newly installed ecological sanitation concept came into service. In the course of the renovations, the GTZ installed 56 urine diversion toilets, 25 waterless urinals, separated piping systems for urine and brownwater and a urine storage tank in its main building. In the framework of a research project currently in preparation, treatment plants for both urine and brownwater will be installed and the agricultural use of the recovered nutrients will be implemented. With this project the GTZ decreases its water consumption, returns nutrients from wastewater back to agriculture, and reduces the load on the central wastewater treatment plant. The GTZ is clearly highlighting that sustainability is not just a concept that it promotes to the outside world, but is of equal relevance in in-house decisions of the company. The project will be officially presented to a broader public during a DWA-BMZ-GTZ symposium in October 2006 (see below).

!!! Download:

ppt Presentation on the ecosan project in the GTZ main building
http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-project-GTZ-Haus1-2006.pdf
Project data sheet on the ecosan project in the GTZ main building
http://www.gtz.de/de/dokumente/en-ecosan-pds-016-germany-gtz-eschborn-2005.pdf

!!! Contact: Christine.Werner@gtz.de





DWA/BMZ/GTZ ecosan Symposium on the 26th and 27th October 2006 in Eschborn

Organiser: DWA (Deutsche Vereinigung fuer Wasserwirtschaft, Abwasser und Abfall),

GTZ (Gesellschaft fuer Technische Zusammenarbeit, GmbH)

The GTZ, together with the German Federal Ministry for Economic Cooperation and Development, BMZ, and the German Association for Water, Wastewater and Waste (DWA), is organising the symposium "New Sanitation Concepts (ecosan) - international project experience and dissemination strategies" in Eschborn on the 26th and 27th October 2006. This symposium follows the foundation of the interdisciplinary expert group "New Sanitation Systems" in November 2005 by the German Association for Water Management, Wastewater and Solid Waste (DWA). We would like to use this opportunity to present and visit our new ecosan demonstration project in the freshly renovated GTZ main building, along with the ecosan demonstration project in the headquarters of the KfW (Kreditanstalt fuer Wiederaufbau) in Frankfurt. These projects illustrate that ecosan systems are comfortable, economic and ecological solutions not only in the South, but also in the North. The expert meeting should also show other ecosan projects and activities in Germany, Europe and around the globe, and highlight how Germany can increase its contribution to achieving the sanitation related MDGs (Millennium Goals from the Johannesburg Summit on Sustainable Development). The symposium will be completed by a podium discussion with the title "What is needed to enable German and international large scale implementation of ecosan?" and the "ecosan-Stammtisch" which aims to provide an informal and relaxed atmosphere for a professional exchange of ideas.

!!! Download:

Press release from the DWA (in German)

 $\underline{\text{http://www2.gtz.de/Dokumente/oe44/ecosan/nl/de-ecosan-symposium-eschborn-dwa-pressrelease-2006.pdf}$

Flyer for the meeting (German / English)

http://www.itrust.de/atv/bildungsdatenbank/download/3727_Neue-Sanitrkonzepte-Ecosan.pdf

Detailled programme (in English)

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-symposium-eschborn-programme-2006.pdf

!!! Contact: Christine.Werner@gtz.de

Now online: Collection of material on "capacity building" for ecosan

A comprehensive collection of materials on capacity building for ecosan has been made in a large cooperative effort between many organisations and aims to serve a broader dissemination of information on ecosan. The collection was presented to the general public in the form of a CD-ROM during the World Water Forum in Mexico (March 2006). It is now available on-line.

A large number of organisations have contributed materials to this collection, among them EcoSanRes (Sweden), WASTE (The Netherlands), GTZ (Germany), UNESCO-IHP (France), UNESCO-IHE (The Netherlands), CSIR (South Africa), Eco-sanClub (Austria), International Ecological Engineering Society (Switzerland), University of Agricultural Sciences (Norway), SARAR (Mexico), SCOPE-Trichy (India), Eawag-Sandec (Switzerland), Technical University Hamburg Harburg (Germany), the International Water and Sanitation Centre - IRC (The Netherlands), the World Conservation Union - IUCN, the DFID funded resource centre for water, sanitation and environmental health – WELL (UK), and from the Water and Sanitation Collaborative Council – WSSCC (Switzerland).

GTZ gratefully acknowledges the support of all these organisations for providing their materials, to enhance dissemination and capacity building for ecosan and for their contribution to achieving the sanitation Millennium Development Goals by 2015.



The collection should support teachers and trainers in developing their own teaching material for formal and continuing education and vocational training, to those planning awareness raising activities, and to those who need educational material during the planning and implementation of an ecosan project. It contains a series of ecosan curricula, posters, and lectures as well as programmes, materials and presentations for different ecosan workshops. The material should serve to inspire the development of your materials and activities. The collection also includes the most relevant existing basic literature on ecosan and the proceedings from ecosan symposia.

Access to the on-line materials through the tables of contents which provides links to the on-line documentation.

!!! Download table of contents for the collection of ecosan material: http://www2.gtz.de/Dokumente/oe44/ecosan/cb/en-ecosan-capacity-building-material-2006.pdf

Changes in the GTZ ecosan team

We are pleased to welcome three new interns and a new student trainee to the GTZ ecosan team:

- Annaliza Miso, from the Philippines, is currently studying Agricultural Economics at the Universitaet Hohenheim, Stuttgart, Germany. She taught "Urban ecosan" at the Xavier University and has worked in ecosan projects. She will be working as an intern from the 1 August to 31 October 2006 with the GTZ ecosan team in Eschborn.
- **Veronika Zekarias** is studying economics at the Johannes-Gutenberg Universitaet in Mainz (Germany). From 12 August to October 2006 she will be doing an internship with the GTZ ecosan team in Eschborn.
- **Thomas Kreuder** is studying civil engineering at the Fachhochschule Mainz, majoring in "Water engineering and waste management" and will be working as an intern in the ecosan project of the GTZ from 1 September till 31 December 2006.
- **Eve Menger Krug** is studying geo-ecology at the Universitaet Karlsruhe. From January until April 2006 she worked as an intern in the ecosan team in Eschborn. From 1 August 2006 she will be supporting the team as a student trainee.

The IWA Expert group on ecosan now using the GTZ ecosan Newsletter as a platform

This newsletter is a regular news service of the GTZ's ecosan programme aimed at a network of friends and experts working and interested in projects on the theme of closed loop sanitation systems. We are pleased that over the years many of our partner organisations have started to use this platform also for their own purposes. Sections containing "News from EcoSanRes, EcosanClub, WASTE or EAWAG / SANDEC" now appear regularly in the newsletter. One aim of our project is to ensure that rather than having a flood of newsletters from many organisations that a single newsletter provides a common forum where those interested in ecosan can gather information and exchange with one another. We have been delighted by the positive feedback our efforts have received and that our services continue to satisfy. The newsletter is now received by over 10 000 subscribers.

Recently the IWA expert group on ecological sanitation has also decided to use the newsletter (see below). Welcome!!

An archive of elder editions of the newsletter can be found on the GTZ website.

!!! Download: Newsletter archive

http://www.gtz.de/en/themen/umwelt-infrastruktur/wasser/9403.htm





News from the IWA specialist group on ecosan

News from the IWA expert group on "ecological sanitation"

Dear members of the IWA specialist group 'Ecological Sanitation'!

When originally discussing a newsletter for the group there was the suggestion to use the ecosan-newsletter of the GTZ instead and to include in their newsletter a section for the IWA group. All group members are of course welcome to contribute. In this way we can communicate the activities of our group and receive input from a large community with the newsletter currently reaching about 10.000 addresses. In addition there is the possibility of using the active discussion forum of EcoSanRes, where you can join under http://www.ecosanres.org Please give us your feedback on this procedure and let us know if you do not want to receive the newsletter that is published every 3 month.

Biennial IWA Conference, Beijing, September 2006

In Marrakech 2004 there were major sessions on ecological sanitation that were well visited, with a further 3 workshops and a podium discussion. In Beijing the emphasis will be less on ecosan, with only one session and a few (5-10) papers presented. However a meeting of the specialist group is planned. It is scheduled at 13.00-14.30 on Wednesday September 13.

Advanced Sanitation Conference, Aachen 2007

The IWA conference 'Advanced Sanitation' will take place on the 12th and 13th March 2007 in the beautiful city of Aachen, Germany, near the borders of both Holland and Belgium. The call for papers has been launched and a high attendance is expected. The conference website is http://www.advancedsanitation.de. Notification of accepted papers will be given at the end of August. As a large number of papers on ecosan topics have been submitted it could be regarded as a specialist group conference, although it has not been planned as such. It may be possible to arrange an open ecosan workshop and / or excursion if sufficient interest is expressed (otterpohl@tuhh.de).

Concept innovation vs. improvement/advancing

A workshop was recently organised by Hamburg Water, the water utility for the city of Hamburg, Germany. The opening presentation was given by an innovation researcher. One of his key statements was that most work is done on improving existing technologies requiring only a marginal degree of innovation. He continued to say however that the key to real innovation is concept innovation – which we all know is the approach behind ecological sanitation systems!

EU-Funds for Sustainable Sanitation

IWA headquarters with Darren Saywell and many of the active ecosan groups are involved in the EU-funded capacity building network NETSSAF, aiming at the preparation of large scale implementation of sustainable sanitation (including ecosan) in countries in West Africa. A total of 20 partners are involved in this concerted action which will run for two and a half years. At the kick-off meeting in Uppsala the official EU officer said that well prepared suggestions for implementation of sustainable sanitation would have a good chance of obtaining funding.

EU also funds a STREP-project in the field of sustainable sanitation. The project ROSA (see GTZ Newsletter 20) includes 13 partners and is coordinated by Guenter Langergraber at BOKU, Austria. It concentrates on East Africa, and thus NETSSAF and ROSA will complement each other.

Name of the IWA specialist group

At our Marrakech meeting the group discussed at length the issue of finding a more specific name for ecosan for the water profession. The result was the technical term 'Resources Management Sanitation'. The name of the group was however not changed as the group wanted to see how this term would work. It has not received wide support and even the IWA still uses the term ecosan. It is therefore proposed to retain the term Ecological Sanitation, keeping in mind that also a conventional system with real reuse in agriculture or forestry is naturally included in this.





Next meeting of the IWA specialist group on ecological sanitation

The IWA ecosan group will have a meeting in Beijing on the 13.9. at 13:00 h. A larger meeting will take place at the Advanced Sanitation conference in Aachen in March 2007

Please give us your feedback, your suggestions and visit our group-site http://www.ecosan.org, we will be happy to include more material.

Contact:

Ralf Otterpohl (Chair): otterpohl@tuhh.de

Hakan Joensson (Co-Chair): Hakan.Jonsson@bt.slu.se

News from EcoSanRes

The new EcoSanRes 5 year programme (2006-2010) sets its focus on capacity building and knowledge management.

The new EcoSanRes 5-year programme (2006-2010) financed by Sida will emphasise propoor sustainable sanitation through development of regional nodes, capacity building and knowledge management. A lack of capacity on all levels is seen as one of the bottlenecks for up-scaling and multiplying the successful ecosan projects. A project document describing the concept of the project-phase 2006-2010 in detail is now available from the EcoSanRes website.

!!! Download:

http://www.ecosanres.org/PDF%20files/EcoSanRes_2_%20Prodoc_3d.pdf

World Toilet Expo - Bangkok

The "World Toilet Expo & Forum 2006" takes place from the 16th to the 18th November 2006, in Bangkok focussing on the importance of sustainable sanitation systems

The second "World Toilet Expo & Forum" is being organised by Thailand's Ministry of Public Health (MPOH), the World Toilet Organization (WTO) and Meeting Planners International (MP).

The forum has received strong support from the host country. As part of the commitment to put its master plan of building cleaner and healthier public toilet facilities into action, the Thai government is organising a 400-strong delegation to attend the event.

The programme has been built around the pillars of Thai development cooperation and will stress the importance of sustainable sanitation systems in reaching the Johannesburg MDG for sanitation.

This theme will be addressed by the keynote speakers Richard Pollard of the World Bank's Water and Sanitation Programme, and Uschi Eid, who is the acting chair of the United Nations secretary-general's advisory board on water and sanitation. She will be addressing the concrete actions proposed by the board in its "compendium of actions" and for which it is now seeking support.

A series of events and a podium discussion on the afternoon of the first day will be dedicated to the potential of ecological sanitation concepts. Christine Werner (GTZ ecosan Programme) and Mr. Lin Jiang (Jiu San Society, Guanxi Committee) will be among those addressing the audience. On the second and third day, detailed sessions will explore the theme "Health, Access and Security", and an excursion will also be organised on the third day.

We hope to meet a large number of friends and colleagues at the "World Toilet Expo & Forum 2006" and hope that this meeting will mark another important step in mainstreaming sustainable sanitation systems.

!!! Information: http://www.worldtoiletexpo.com/home

!!! Information brochure:

http://www.worldtoiletexpo.com/uploads/images/95/WTEF 2006 Brochure.pdf





- !!! Programme (From 24. July 2006): http://www.worldtoiletexpo.com/Programme2
- !!! Press release from April 2006: http://www.worldtoiletexpo.com/april_2006
- !!! "Compendium of action" of the United Nations Secretary-General's Advisory Board on Water and Sanitation:

http://www.unsgab.org/Compendium_of_Actions_en.pdf

Ecocity 6 postponed

Ecocity 6 has been postponed to 3rd-6th December 2006

Organisers: Ecocity Builders, Project Agastya and 25/Bangalore

The "International Conference for the sustainable development of ecoCities" (ecoCity6) in Bangalore, is a part of the "International Convention of the Cities of the Future". The conference has been postponed are the last minute as a result of the incidences in Mumbai and will now be held 3rd-6th December 2006.

The topic of ecosan will be discussed in symposium 4 "efficient and sustainable management of urban infrastructure"! Further topics of the symposium are: Integrated Water and Resources management, integrated sustainable solid waste management, health and sanitary infrastructure, performance and energy, urban transport management, air and soil pollution, public security, eco-tourism, urban poverty and unemployment.

Ecocity 6 has been postponed to 3rd-6th December 2006. For details on the new schedule, visit the website below or contact the secretariat.

!!! Information: http://www.tciconferences.com/ecocity2006/ecocity2006.htm

!!! Contact: secretariat: ecocity6@gmail.com

Conference coordinator: Mr. Rajeev Kumar, .project.agastya@gmail.com

News – general

WHO presents new guidelines on the use of wastewater, excreta and greywater in agriculture and aquaculture

The long awaited new guidelines from the World Health Organisation (WHO) on the use of wastewater, excreta and greywater in agriculture and aquaculture will be presented to the public for the first time at the 5th IWA World Water Congress in Peking.

This third edition of the WHO Guidelines marks an important departure from the presentation of static standards and norms to best practice guidance in risk assessment and management for the use of this increasingly important water resource. The Stockholm Framework provides the basis for establishing health based targets, and the guidelines describe possible risk management interventions for the various phases from the generation of wastewater, excreta and greywater to the consumption of produce for which they were used. The Guidelines are issued in four volumes, each with a different focus and target audience.

Ecosan systems and system components will be comprehensively discussed in the new WHO guidelines, and recommended as proven technologies for many situations.

!!! Information:

http://www.iwa2006beijing.com/templates/dynamic/Conferences/conferenceB.aspx?objectid=642919

!!! Download: The Guidelines will soon be available for download under:
http://www.who.int/water_sanitation_health/wastewater/gsuww/en/index.html



"Sanitation is Dignity" – successful event of the German Toilet Organization travels to Switzerland

From the 2nd to the 7th October 2006 Zuerich will be home to an extraordinary exhibition. On the Paradeplatz, in the heart of the city, the German Toilet Organization (GTO), with the financial support of CWS Suisse, will install life size figures, which will hide "themselves" behind every day objects (such as umbrellas and bins) to relieve themselves. The campaign "Sanitation is Dignity" received a wide media echo when first displayed on the Potsdamer Platz in Berlin in March 2006. The action aims to draw attention to the fact that still 42% of the planet's population lack access to adequate sanitation. A parallel exhibition in Geneva is currently being planned.

The GTO – member of the "World Toilet Organization" (WTO – with headquarters in Singapore) – uses unconventional means to break taboos around toilets and sanitation. It therefore aims to support all organisations, whether in developing or industrial nations, that are working to improve sanitation. A GTO information stand informs visitors to the exhibition about sustainable and ecological sanitation concepts and about GTO Projects in Zambia, Sri Lanka and Germany.

Upcoming evens in Switzerland should also serve to lay the foundations for a Swiss Toilet Organisation. The GTO and Eawag/Sandec will together with the "Umwelt- und Gesundheitsschutz Zuerich" support the development of the new WTO-Partner.

Media reports on the Berlin event can be found on the GTO web site.

Organisations interested in organising a similar event in their towns or cities can contact the GTO directly.

People and organisations interested in working with, supporting or operating with the new STO can also contact the GTO.

!!! Information : http://www.germantoilet.org

!!! Download: "Sanitation is Dignity"- Event brochure (en):

http://www.germantoilet.org/images/gto_sanitation_is_dignity_broschuere_lq.pdf

!!! Contact: thilo.panzerbieter@germantoilet.org

2 million German homes could be heated with energy from wastewater

The city of Ludwigshafen (Rheinland-Pfalz, Germany) heats the main service building of the city's utilities with heat from wastewater, and thus reduces annual carbon dioxide emissions by 60t. The core of the plant is a 1.2m wide and 9m long heat exchanger, integrated in the bed of the wastewater canal. In the light of increasing energy prices, the process makes both ecological and economic sense, according to the city's environmental officer Ernst Merkel.

The issue is therefore of general interest, and supports a holistic management of (waste)water, as:

"Wastewater in Germany contains enough energy to heat between 2 and 4 million homes. Tens of thousands of locations are suitable for energy recovery from wastewater" according to the results of a research project supported by the German Federal Environmental Foundation.

!!! Download:

"Heating and cooling with wastewater" (1 MB, German):

http://www.dbu.de/publikationen/download588.html

"Energy from sewage – guidelines for engineers and planners" (1 MB, German)

http://www.dbu.de/publikationen/download609.html

"Energy from wastewater" (7 MB, German)

http://www.ikt.de/down.php?f=6



New journal for ecosan publications

Journal of applied sciences in environmental sanitation (ASES). Surabaya, Indonesia, Trisanita

The "Journal of Applied Sciences in Environmental Sanitation (ASES)" will publish original research papers, review articles, and forum articles. It invites researchers from all countries to publish applied sciences in environmental sanitation of international interest on its pages.

The focus of this new journal is on applied sciences such as physics, chemistry, biology, ecology, geosciences that are addressed to environmental sanitation such as drinking water, wastewater, solid waste, hazardous and toxic waste, soil, water resources, air, plants for treatment and remediation (phytotechnology), eco-toxicology, environmental conservation, environmental impact management.

The Journal publishes theoretical papers as well as application-oriented contributions and practical case studies. It is published in yearly volumes of three issues (April, August, December). The first publication is expected for August 2006.

!!! Information: (General)

http://itrademarket.com/Trisanita/profile

http://www.enviro-its.org/wa/ASES WEB Home.htm

!!! Information: (Editorial Board)

http://www.enviro-its.org/wa/ASES_WEB_Editorial_Board.htm

Co-Funding: Proposals invited for small-scale water and sanitation projects

The Fondation Ensemble is a humanitarian foundation that instigates direct and indirect actions of solidarity in France and abroad, through assistance schemes for the most underprivileged (education, training, health care, etc.). Fondation Ensemble invites organisations to submit three-page proposals (including budget) for small-scale projects related to water (irrigation, sanitation, and rainwater collection), the protection of biodiversity and renewable energy sources in developing countries.

The average donation per project is about EUR 200,000 over a three-year period, generally with a minimum of EUR 50,000 per year, and up to a maximum co-financing level of 60% of the total budget.

Project criteria:

- provision of long-term sustainable and replicable access for vulnerable populations to water and sanitation
- partnerships with as many players as possible (PPP, etc.)
- responsive to local needs
- inclusion of a hygiene and environmental education component and gender mainstreaming

Application deadline: 20. September 2006

!!! Contact: info@fondationensemble.org

!!! Information:

http://www.fondationensemble.org/index.php/en/actualites/commissions/commission_projets_2006

Job announcements

Tunisia (Tunis): Advisor "Efficient water planning" – GTZ

The exploitation of all available water resources in Tunisia is practically completed, and increasing demand can no longer be covered by tapping new reserves. The aim of this project is therefore to support and improve the sectoral planning process for sustainable management of water resources in Tunisia by providing advice on sector politics and strategies, as well by improving dialogue and consensus finding processes.



You will advise and support colleagues in the ministry in three main areas: water management framework planning, investment planning and information management. This will also involve coordination with other sector institutions and coordination with other ministries and donors, as well as the organisation of technical and methodological seminars and events.

Duration of contract: October 2006 - August 2009

!!! Information:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60068577

Jordan (Amman): Expert for Water Management - CIM

The CIM (Centre for International Migration and Development) is a joint project between the GTZ and German Federal Agency for Employment (BA). The programme for integrated experts offers a salary top up for European experts who sign a contract with national or local institutions in developing countries. Applicant must have German citizenship, or citizenship of another European country and have several years experience in the given discipline (except in the case of junior positions). Applicants should also speak fluent German and not live outside of the EU.

Employer: Ministry for Agriculture

In Jordan an increasing over use of water resources by private and state institutions in agriculture, industry and private enterprise poses an increasing danger to the water budget.

The goal of the Ministry of Agriculture (MoA) is to enable a positive development of agricultural water use using optimal principals of nature protection and engineering technology. As well as cooperating in the establishment of the necessary institutions to achieve this, the expert should also advise colleagues from the MoA in organisational development.

Reference number 60053979

 $\underline{\text{http://www.cimonline.de/de/bewerber/101.asp?fachgebiet=Wasserversorgung,+Abwasser-+und+Abfallentsorgung\&anzeige=60053979}$

Jobs in "Water and Sanitation" with the DED

The German Development Services (DED) are currently looking for several people to work in "Water and Sanitation Supply".

The DED Job data base can be found under: http://www.ded.de

→ Follow the links "Stellenmarkt, Entwicklungshelfer und -stipendiaten"

A few of the available positions are briefly presented below. Please insert the respective PP-No. in the search template.

Mongolia: Environmental scientist, specialised in the management of natural resources, ecology or environmental economy PP-Nr: 5763-MNG-LE-UNV

United Nations Volunteers – cooperation in the development of praxis relevant environmental programmes, development of strategies for the protection and use of natural resources, monitoring of existing projects.

Bolivia: Agricultural engineer, Water engineer, Geographer

PP-Nr: 6963-BOL-LE-KZE

Short mission of 4 months! Reconnaissance, preparation and further development of the DED contribution in Bolivia in the field of integrated water resources management.

Uganda: Water supply and wastewater engineer / solid waste specialist, Engineer in supply technologies, Civil Engineer (earth works), Water and environmental engineer PP-Nr: 6127-UGA-Wasser

Implementation of an existing feasibility study for water, wastewater and solid waste systems, particularly in poor areas, in the town of Busia, Uganda.



Switzerland: Environmental Sanitation Research Positions – Sandec

Eawag/Sandec (Department of Water and Sanitation in Developing Countries) in Duebendorf, Switzerland is seeking two highly motivated individuals to support its research groups in sanitation.

Environmental Engineer / Sanitation Specialist (100%)

This junior/mid-level post shall contribute to the further development of the Household-Centred Environmental Sanitation approach (HCES) by applying his/her sanitation expertise to directly advise partners' worldwide and conducting research in environmental sanitation. Furthermore this position will provide coordinative and administrative support to Eawag/Sandec's contribution to the NCCR North-South research programme funded by the Swiss National Science Foundation and the Swiss Development Cooperation (SDC/DEZA). Deadline for application is mid September 2006.

!!! Contact: Christoph Luethi: christoph.luethi@eawag.ch or

Chris Zurbrugg@eawag.ch

Researcher: Environmental Sanitation Engineering (80-100%)

We are looking for a sanitation scientist with at least 3 years research or field experience and a sound knowledge of different sanitation systems in developing countries. The candidate will contribute to achieving high quality research results with regard to appropriate sanitation infrastructure facilities and low-cost treatment options for excreta, faecal sludge and wastewater. Deadline for application is 30 September 2006.

!!! Contact: Doulaye Koné: doulaye.kone@eawag.ch or

Chris Zurbrugg@eawag.ch

For more information on both job openings visit:

http://www.sandec.ch/AboutUs/Jobs.htm

India: Expert for Water Sector Reform – GTZ, Call for tenders

The government of Rajasthan has prioritized the water sector as its key development issue. Accordingly, the Rajasthan partnership programme is designed to support a comprehensive multi-sector and integrated policy approach to adress the unsustainable use of drinking water.

A call for tenders for this project is expected to be published soon. GTZ International Services is currently **preparing to participate and is inviting qualified professionals to apply.**

Your tasks will include: support to State Water Resources Planning Department (SWRPD), realisation of a "Sustainable Water Campaign", institutional development of line departments of SWRPD, of the regional "Panchayati Raj" institutions (PRI) and of user groups, capacity development of regional PRI / user group plans, attendance to an investment component of PRI. Duration estimated 5 to 6 years.

Reference code: RB-185/06

!!! Complete text of this call under:

http://www.gtz.de/en/karriere/stellenmarkt/jobs-by-region.asp

Follow the links: [→ Asia and Pacific → Expert for Water Sector Reform]





News from the pilot projects...

... German Cooperation

Ethiopia ecosan for large scale housing programmes

In the PPP-project "Introduction of ecological sanitation for large scale housing programs in Ethiopia", financed by the GTZ and other project partners, urine separation dehydration toilets systems to be integrated in multi-storey apartment blocks are being developed.

These systems can be installed independent of the number of floors the building has. Several demonstration units have been built already in order to test and demonstrate the functionality of the system. Field tests are also planned, in cooperation with the university of Arba Minch, for the use of the collected urine.

The executive plans are currently being made for the integration of the toilet systems in 42 units in Sodo Wolayta – a water scarce region in the south of Ethiopia. Capacity building and awareness raising is being carried out in parallel to the technical installation in order to ensure the correct operation of the system in the future.

Conveying the relevant information to the user represents a particular challenge. First experience with the systems have been positive as water flushed systems often do not function for months at a time in the area as a result of the water scarcity, and the toilets have been quickly accepted. They are ceramic squatting separation toilets which will soon be widely available from an Ethiopian ceramic factory.

Project partners in the PPP-project are OtterWasser GmbH, Hamburg University of Technology and the planning group Prof. Krusche (Town planner, Braunschweig University of Technology) with additional advice from the GTZ-ecosan-team. The project will run until November 2007.

!!! Information: http://www.otterwasser.de/german/konzepte/beschreibung_ppp.pdf

Ghana ecosan at the Valley View University Campus, Accra

The BMBF project "Ecological closed loop systems at the Valley View University (VVU), Accra (Ghana)" is supporting the development of a comprehensive ecological concept for the sustainable extension of Ghana's largest private university. A series of measures have been implemented since 2002, including for example, an ecological sanitation system in the main building and canteen, with the urine and greywater from the women's halls of residence being successfully used in the university's own fields.

The matter flux analysis established for the campus is being continually updated in the course of the project and discussed with the project partners. To endure a long term functioning of the project, it is accompanied by a special Quality Management, which includes changes in the VVU organisational structure, trainings, public relations work, acceptance assurance and the establishment of a course in Engineering ecology. Project partners are the universities of Hohenheim (agriculture), Weimar (town planning, architecture, planning) and VVU, the firms Palutec and Berger-Biotechnik (installations, training) and the engineering ecology association, IOEV (coordination, quality management). Cooperation and exchange programmes exist with other universities (e.g. Augsburg, Magdeburg, Suderburg and Weimar).

Information on this holistic project can be found under IOEV-Projects http://www.ioev.de

Here for example, flyers concerning different themes in the project can be downloaded in pdf format. A detailed booklet in English can be order for 30,-/ 15,-€ (members / non-members) (IOEV, Frohsinnstrasse 11, 86150 Augsburg, Germany, Phone: 0049 (0) 821-575165, info@ioev.de).

!!! Contact: Gunther Geller, Project coordinator IOEV: info@ioev.de

!!! Information: http://www.ioev.de

http://www.uni-hohenheim.de/respta/index.php



India ecosan concept for the University of Kalyani (near Calcutta)

The International Centre of Ecological Engineering (ICEE) has been set up at the University of Kalyani in order to provide facilities for environmental awareness programmes to the masses (through publication of booklets, charts, etc) imparting training to skilled and non-skilled persons, offering courses to students and extending facilities to researchers on the relevant areas of ecological engineering, especially ecological sanitation, maintaining a close link with agricultural production. This is most relevant in developing countries for employment generation and to prevent environmental pollution.

The application areas of the centre are water resource management, ecological sanitation, landscape and city planning, sustainable development, integrated pest management, agro forestry, river restoration, eco-planning, eco-villages and ecological modelling.

The ICEE will not only install a socially and culturally acceptable, sustainable and hygienically safe sanitation concept that allows reuse of source-separated flow-streams (greywater, yellow-water and blackwater), but also aims to construct the ICEE-building as an eco-friendly building by using non-conventional building materials and construction technologies.

A pre-feasibility study gives detailed information on the suggested ecosan concepts for the ICEE and is now available for download.

!!! Contact: Christine Werner: Christine.Werner@gtz.de

B. B. Jana (Coordinator ICEE): bbj@cal2.vsnl.net.in

Martin Wafler: martin.wafler@seecon.ch

!!! Download:

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-concept-india-kalyani-2006.pdf

The Philippines WHO delegation visits ecosan projects in Cagayan de Oro

Two school-based allotment gardens with ecosan toilets are presently established in the elementary schools of FS Catanico and Balulang, and will become model schools following the WHO "Health Promoting Schools" framework. Three WHO-consultants were in Cagayan de Oro on June 14th 2006 to evaluate cost effective interventions to improve oral health among the elementary school population. The particular interest of the WHO-consultants was the St. Ignatius Allotment Garden demo-area with its urine diverting dehydration toilet (UDDT) to see how ecosan works in closing the loop in the waste and sanitation cycle.

Earlier, the three visitors were resource speakers of the conference "Oral Health and Nutritional Status of Philippine Elementary School Children".

!!! Contact: Robert Holmer: rholmer@xu.edu.ph

!!! Download: Read full article

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-who-in-cagayan-de-oro-2006.pdf





News from the pilot projects

- other cooperation

The Netherlands ecosan in the UNESCO-IHE building in Delft

Since May this year, eleven waterless urinals (for males) and one urine diversion dehydrating toilet (UDD toilet), for females (model "Villa" from the Swedish company Separett) have been in operation at the UNESCO-IHE Institute for Water Education in Delft. The students - who are all from low-income countries -, staff and visitors to the building are now being informed about ecosan through the use of these urinals and the UDD toilet. The urinals and UDD toilet are regularly cause for discussions amongst students and staff, and are creating opportunities for awareness raising, teaching, student assignments and research.

In the 4-months period of use so far, it has become clear that the main problem - as so often the case - is the cleaning of the toilet, particularly the daily emptying of the faeces bin (the contents of which is only toilet paper on many days). Several of the cleaners from a private cleaning firm initially refused to do this. The cleaning of faeces stains on the white surface of the toilet's short chute is also sometimes not carried out properly, which can put off the next visitor. Some users have therefore suggested to declare the UDD toilet as a "waterless urinal for females", i.e. to use the toilet only for urination, which could further improve its acceptance by the cleaning staff.

Survey results can now be downloaded (from 50 female users, carried out as part of a student assignment), along with two detailed articles from the internal newsletter of UNESCO-IHE, and awareness raising posters and instructions for use that are displayed in the toilet rooms.

- !!! Information and contact: Elisabeth von Muench, e.vonmunch@unesco-ihe.org
- !!! Download Yellow-pages Part 1 & 2: http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-unesco-ihe-building-nl-delft-part1-2006.pdf http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-unesco-ihe-building-nl-delft-part2-2006.pdf
- !!! Download Poster of awareness raising for UNESCO-IHE DU-Toilets: http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-poster-dry-toilet-delft-2006.ppt http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-poster-waterless-urinal-delft-2006.ppt http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-poster-UDD-toilet-delft-2006.ppt
- !!! Download Survey result amongst 50 users at UNESCO-IHE http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-unesco-ihe-building-nl-survey-2006.ppt

India ecosan project near Chennai, Tamil Nadu

Some 30 km from Chennai (Madras) the NGO Aksha Ganga Trust is executing an ecosan-project with funds from ENVIKAL. In the project a UDDT was installed in a Tsunami-hit area as a pilot and demonstration toilet in January this year. The facility has since created awareness and demand among the other villagers in the community. Two short reports on the construction and operation are available.

- **!!! Download:** Akash Ganga Report January 2006 on ecosan activities near Chennai http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-activities-india-chennai-jan-2006.pdf
- !!! Download: Akash Ganga Report April 2006 on ecosan activities near Chennai http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-activities-india-chennai-apr-2006.pdf
- !!! Contact: Trustee, Akash Ganga Trust and Director, Rain Centre, Dr. Sekhar Raghavan sekar1479@yahoo.co.in

Australia Urban wastewater recycling in Queensland

In Queensland, Australia, the construction of a micro-community with sustainable resource management is currently taking place. Rainwater tanks will be installed in all houses. Not only rainwater, but also wastewater will be recycled to a standard that is comparable to drinking water, according to the company EcoNova. The water will be used in toilets and gardens. The reuse systems are expected to bring down the total water consumption by 50%.





EcoNova, an Australian company, has found a way of recycling solid waste and wastewater together, in order to produce clean drinking water. EcoNova claims that the energy that is needed for the process is also produced from the waste water. Technical details are not yet available as a patent is pending.

!!! Information: http://s3.com.au/

http://www.econova.com.au/pdf/WME-Dec2005 Article Page32.pdf

Publications ... in the web

Mayumbelo 2006: Cost analysis of ecosan in periurban Lusaka – M. Sc. Thesis

The overall aim of this M.Sc.-thesis was to develop a financial model for cost effective and sustainable sanitation provision in peri-urban areas that can be used by any decision maker in the region. This is done using a case study of three peri-urban areas in Lusaka, Zambia.

In order to achieve this objective, the research had the following sub-objectives: (1) Review previous work regarding implementing ecosan in Zambia and the region, especially in periurban areas; (2) carry out cost estimates for ecosan options and compare these to costs for conventional sanitation systems (in particular latrine based sanitation options) and develop a financial model that can be used when selecting sustainable sanitation options for the periurban areas; and (3) extrapolate findings to determine potential impact on MDG achievements in Zambia.

The thesis concludes that the cost implication for peri-urban areas in Zambia to achieve 70% sanitation coverage set as internal MDG achievements target by the Zambian government by 2015 is approximately € 35.2 per capita for the dry single vault UD toilet and € 38.6 per capita for the VIP (for the plot level of implementation). Ways of reducing the high urine storage costs can further be looked at in order to make the UD toilet option cheaper.

Mayumbelo, K.M.K. (2006) "Cost analysis for applying ecosan in periurban areas to achieve the MDGs – Case study of Lusaka, Zambia". M.Sc.-Thesis at UNESCO-IHE Institute for Water Education, Delft.

!!! Download:

http://www2.gtz.de/Dokumente/oe44/ecosan/en-cost-analysis-lusaka-2006.pdf

Mosel 2006: Greywater use in arid regions – M. Sc. Thesis (in German)

The use of only lightly loaded greywater from showers, baths and wash basins is an appropriate measure to protect water resources in arid regions, as long as measures are taken to minimise the potential dangers of the wastewater. In Ahmedabad, India, processes to use greywater in gardening were developed and tested in the framework of this master's thesis. Plants were either placed in furrows filled with organic material and irrigated, or irrigated by underground pipes. Some of the conclusions drawn in this work on the practicalities of using mulch materials discuss the different variables such as the distance between furrows of pipes.

Ulrike Mosel (2006) "Greywater use for irrigation of garden areas in arid regions" – 108 Pages, plus numerous Annexes. Masters Thesis at the Technical University of Dresden, Faculty of Forestry, Geo and hydro sciences, specialisation in water engineering, Institute for Urban and Industrial Water Management.

!!! Download:

 $\underline{http://www2.gtz.de/Dokumente/oe44/ecosan/de-grauwassernutzung-aride-gebiete-2006.pdf}$

WECF: Ecosan considerations for women – Fact Sheet

The importance and the challenge of keeping dry urine-diverting toilets clean, especially regarding traces of menstruation blood, is described in a fact sheet by WECF (Women in Europe for a Common Future).

!!! Download: http://www.wecf.de/cms/download/2004-2005/Mentruation_fs.pdf





Urban ecosan – Introduction to the China-Sweden Erdos-Eco-Town-Project

An interesting up-date on the China-Sweden-Erdos-Eco-Town-Project was presented in March this year at the World Water Forum in Mexico. It gives information and pictures on the project that currently implements Urine-Diversion-Dehydration-Toilets in multi-story buildings in an urban setting in China.

Qiang Zhu (2006) "Introduction to the China-Sweden Erdos-Eco-Town-Project." - China – Sweden Erdos Eco-town Project, Dongsheng District, Erdos Municipality, 017000, Inner Mongolia Autonomous Region, China.

!!! Download: Text

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-urban-ecosan-erdos-eco-town-project-wwf4-text-2006.pdf

!!! Download: Presentation

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-urban-ecosan-erdos-eco-town-project-wwf4-ppt-2006.pdf

Taining and Courses

Web Based Training on the Efficient Management of Wastewater

1st Oct – 26th Nov 2006

Organiser: EMWater (Efficient Management of Wastewater) of MEDA Water Project

EMWater offers an advanced course for professionals in wastewater management, treatment and reuse from the Mediterranean Countries. One major element within this training is ecological sanitation.

The overall objectives of the e-course are to provide information on new appropriate technologies, focussing on sustainability and water reuse in rural areas of Mediterranean countries and to improve know-how transfer between the Mediterranean countries.

Application deadline: 08. September 2006

!!! Information: http://www.emwater.org/activities/e-learning.htm

Sweden Biological Waste Treatment Technology for Urban Wastes,

Swedish University of Agricultural Sciences.

30th Oct - 22nd Dec 2006, Uppsala

Organiser: Swedish University of Agricultural Science, Uppsala.

The course "Biological Waste Treatment Technology for Urban Wastes" is a graduate course (with a project back home during January 2007) at the Swedish University of Agricultural Sciences [10 credits (15 ECTS credits)].

The main focus of this course is on treatment and handling systems enabling safe, environmentally friendly and resource efficient recycling of plant nutrients and organic matter in organic household waste (urine, faeces, kitchen waste etc.) back to cultivation of crops. The emphasis of the course is source separating sanitation systems (Ecosan systems), composting and anaerobic digestion, but conventional handling and treatment systems (waterborne sanitation systems and processes, active sludge processes, biobeds, chemical precipitation, pond systems; incineration and land-filling of solid organic waste) are also covered. The course treats processes and systems relevant both in developed and developing countries.

The course ends with a two week individual project on producing initial plans for an Ecosan system and evaluating its effects on society and environment. The intention is that this projects is done back home during the weeks following the course weeks in Sweden.

The course is aimed at linking advanced theoretical understanding with practical experiences. It is well suited both for graduate students and experienced professionals.





The course is given in English using PBL (problem based learning). It is given at the Swedish University of Agricultural Sciences in Uppsala, 80 km north of Stockholm. It starts Oct 30 and the lectures in Sweden ends Dec 22 and during January 2007 the project is due.

!!! Registration deadline for applications: Oct 1st 2006 to Hakan.Jonsson@bt.slu.se (Applications should include your qualifications.)

!!! Information: http://www.slu.se/?id=371&Kurskod=TN0186&engelska=true&

!!! Contact: Hakan.Jonsson@bt.slu.se

Events

New

Italy

8th International Conference on Modelling, Monitoring and

Management of Water Pollution

4. - 6. September 2006, Bologna

Organiser: Wessex Institute of Technology, UK und University of Coimbra, Portugal

The meeting's chief objective is to provide a forum for discussion for scientists and managers working in different aspects of water pollution. Topics include re-use of water, health risk or environmental impact assessment, and are of clear interest for ecosan practitioners.

!!! Information: http://www.wessex.ac.uk/conferences/2006/water06/index.html

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

Russia World Toilet Summit and Expo 2006

6. - 9. September 2006, Moscow

Organiser: World Toilet Organization (WTO)

The World Toilet Summit & Expo 2006 which is hosted by the Russian Toilet Association and the Moscow City Council will be held in Moscow, Russia at Manezh Exhibition Hall from 6-9 September 2006. This event highlights topics concerning city toilets, toilets for children, toilets for social integration, and non-plumbing technologies.

!!! Information: http://www.worldtoilet.org/hp/wto_hp.htm

http://www.worldtoiletsummit.ru/index.php?p=22

!!! Contact: info@worldtoilet.org

China World Water Congress and Exhibition

10th -14th September 2006, Bejing

Organiser: IWA China

Patron: Ministry of Construction, P.R. China

The long awaited WHO Guidelines on the use of wastewater, excreta and greywater in agriculture and aquaculture will be presented to the congress participants. A meeting of the IWA specialist group on ecological sanitation will also be held during the conference and several presentations will address the topic of ecosan.

Over 4 000 delegates are expected at the 5th IWA World Water Congress, which will adopt a holistic approach in discussing water relevant topics and issues.

!!! Information under: http://www.iwa-beijing2006.org

!!! Contact: The Ministry of Construction, secretariat: iwa2006@mail.cin.gov.cn





The Netherlands Symposium on Sustainable Water Supply and Sanitation

26th - 28th September 2006, Delft

Organisers: IRC and UNESCO-IHE

Target group: representatives of associations of municipalities, of water boards and water user committees and NGOs as well as practitioners and researchers who are interested in or could bring in knowledge and experience in this area.

Decentralisation has shifted roles and responsibilities from national government to local government and other intermediate level bodies. Many of the actors who have emerged at this level struggle with their new responsibilities and with roles for which they are not fully equipped in terms of financial resources, knowledge, methodologies, tools and experience.

!!! Information: http://www.irc.nl/page/28120

!!! Contact: symposium@irc.nl

Australia First National Hydropolis Conference in Rainwater

8. - 11. October 2006. Perth

Organiser: Storm water Industry Association

The vital question addressed is: How can water be planned for and integrated in design and decision-making so as to minimize human impact and restore ecological systems. The first Australian National Hydropolis Conference will examine some of these concerns under a similar theme - "Rainwater as a Resource: A Precious Commodity."

!!! Contact: promaco@promaco.com.au

!!! Information: http://www.promaco.com.au/conference/2006/sia/

Germany Entsorga-Enteco 2006

24th-27th October 2006, Cologne

Organiser: Cologne Fair

The new Entsorga-Enteco covers the entire chain of waste management and environmental technology. Entsorga-Enteco is an international fair for waste management and environmental technology offering information on:

- Waste management & Recycling
- Water & Wastewater
- Incineration & Renewable Energy
- Communal services & Environmental service providers
- Technology & Logistics
- Air protection & Emission protection
- Safety in the workplace & Noise protection
- Research & Organisation

!!! Information: http://www.entsorga-enteco.de/





Germany DWA/BMZ/GTZ ecosan Symposium

26th and 27th October 2006, Eschborn

Organiser: DWA (Deutsche Vereinigung fuer Wasserwirtschaft, Abwasser und Abfall),

GTZ (Gesellschaft fuer Technische Zusammenarbeit, GmbH)

The GTZ, together with the German Federal Ministry for Economic Cooperatio and Development, BMZ, and the German Association Water Management, Wastewater and Solid Waste (DWA), is organising the symposium "New Sanitation Concepts (ecosan) international project experience and dissemination strategies" in Eschborn on the 26th and 27th October 2006. This symposium follows the foundation of the interdisciplinary expert group "New Sanitation Systems" in November 2005 by the German Association for Water Management, Wastewater and Solid Waste (DWA). We would like to use this opportunity to present and visit our new ecosan demonstration project in the freshly renovated GTZ main building, along with the ecosan demonstration project in the headquarters of the KfW (Kreditanstalt fuer Wiederaufbau) in Frankfurt. These projects illustrate that ecosan systems are comfortable, economic and ecological solutions not only in the South, but also in the North. The expert meeting should also show other ecosan projects and activities in Germany, Europe and around the globe, and highlight how Germany can increase its contribution to achieving the sanitation supply MDGs (Millennium Goals from the Johannesburg Summit on Sustainable Development). The symposium will be completed by a podium discussion with the title "What is needed to enable German and international large scale implementation of ecosan?" and the "ecosan-Stammtisch" which aims to provide an informal and relaxed atmosphere for a professional exchange of ideas.

!!! Download:

Press release from the DWA (in German)

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/de-ecosan-symposium-eschborn-dwa-pressrelease-2006.pdf

Flyer for the meeting (German / English)

http://www.itrust.de/atv/bildungsdatenbank/download/3727_Neue-Sanitrkonzepte-Ecosan.pdf

Detailled programme (in English)

http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-symposium-eschborn-programme-2006.pdf

!!! Contact: Christine.Werner@gtz.de

UK 11th European Biosolids and Organic Resources Conference,

Workshop and Exhibition

13th – 15th November 2006, Cedar Court Hotel, Wakefield

Organiser: Aqua Enviro

A decade has now past since the first Biosolids and Biowaste Conference was held in Wakefield, West Yorkshire, England. This year the conference will be reviewing the past decade and looking forward to the challenges and opportunities for biosolids and biowastes in the next decade.

!!! Information: http://www.european-biosolids.com/index.php

!!! Download Programme:

http://www.aqua-enviro.net/pdf/11th%20Biosolids%20Brochure.pdf

!!! Contact: training@aquaenviro.co.uk





Thailand World Toilet Expo & Forum 2006,

16th -18th November 2006, Bangkok

Organiser: Ministry of Public Health, World Toilet Organization (WTO) and Meeting

Planners International (MP) Asia Pte Ltd

The World Toilet Expo & Forum (WTE&F) is a series of events created by the World Toilet Organization (WTO) to cater to the specific needs of mature cities. Each of the events addresses issues that will be of particular significance to the host city.

This theme will be addressed by the keynote speakers Richard Pollard of the World Bank's Water and Sanitation Programme, and Uschi Eid, who is the acting chair of the United Nations secretary-general's advisory board on water and sanitation. She will be addressing the concrete actions proposed by the board in its "compendium of actions" and for which it is now seeking support.

A series of events and a podium discussion on the afternoon of the first day will be dedicated to the potential of ecological sanitation concepts. Christine Werner (GTZ ecosan Programme) and Mr. Lin Jiang (Jiu San Society, Guanxi Committee) will be among those addressing the audience. On the second and third day, detailed sessions will explore the theme "Health, Access and Security", and an excursion will also be organised on the third day.

We hope to meet a large number of friends and colleagues at the "World Toilet Expo & Forum 2006" and hope that this meeting will mark another important step in mainstreaming sustainable sanitation systems.

!!! Information: http://www.worldtoiletexpo.com/home

!!! Information Brochure:

http://www.worldtoiletexpo.com/uploads/images/95/WTEF_2006_Brochure.pdf

!!! Press release from the 15th November 2005:

http://www.worldtoiletexpo.com/press release - 15 nov 2005

Brasilia RIO 6 World Climate and Energy Event

17. - 18. November 2006, Rio de Janeiro

Organiser: RIO - LAREF

RIO 6, a follow-up to the successful RIO 5, RIO 3 and RIO 02 - World Climate & Energy Events, is being held to implement renewable energies as the energy supply of the future. The event brings together leading experts from science, industry and politics to report on latest research results, demonstrate new products and services, present successful policies and implementations, and show access to project financing via governmental policies, utility funds and international carbon trading, and form effective networks.

!!! Information: http://www.rio6.com

!!! Contact: info@rio6.com





India: Ecocity 6

3rd-6th December 2006, Bangalore

Organisers: Ecocity Builders, Project Agastya and 25/Bangalore

The "International Conference for the sustainable development of ecoCities" (ecoCity6) in Bangalore, is a part of the "International Convention of the Cities of the Future". The conference has been postponed are the last minute as a result of the incidences in Mumbai and will now be held 3rd-6th December 2006.

The topic of ecosan will be discussed in symposium 4 "efficient and sustainable management of urban infrastructure"! Further topics of the symposium are: Integrated Water and Resources management, integrated sustainable solid waste management, health and sanitary infrastructure, performance and energy, urban transport management, air and soil pollution, public security, eco-tourism, urban poverty and unemployment.

Ecocity 6 has been postponed to 3rd-6th December 2006. For details on the new schedule, visit the website below or contact the secretariat.

!!! Information: http://www.tciconferences.com/ecocity2006/ecocity2006.htm

!!! Contact: secretariat: ecocity6@gmail.com

Conference coordinator: Mr. Rajeev Kumar, project.agastya@gmail.com

The Philippines EAS Congress 2006

12th - 16th December 2006, Quezon City

Organiser: PEMSEA/DENR

The East Asian Seas (EAS) Congress is a major event on sustainable coastal and ocean management that addresses key issues and problems affecting the region's shared seas.

International organizations, experts and multi-sector stakeholders will come together to actively participate in a dynamic and interactive working environment designed for knowledge exchange and capacity-building in developing strategies to implement the MDGs and WSSD goals for the region's coasts and oceans.

Deadline for abstracts: 30. August 2006

!!! Information: http://www.pemsea.org/eascongress/default.htm

!!! Contact: congress@pemsea.org

Tunisia Meda Water International Conference on Sustainable Water

Management

21st - 24th March 2007, Tunis

Organiser: Conference Partnership (Centre de Recherches et des Technologies

des Eaux (CERTE), Tunisia, and many others)

Conference topics:

- Water systems for small rural communities, remote tourist facilities, and peri-urban areas;

- Household-centred water management;
- Rainwater harvesting for domestic use;
- Industrial water management and cleaner production;
- Integration of wastewater reuse in the overall water resources management;
- Best technologies/systems for sustainable treatment of urban wastewater in the Mediterranean area;
- Risk assessment;
- Approaches for the assessment and valuation of safe wastewater agricultural reuse;
- Relevant policies and socioeconomic instruments;





- Relevant policies and socioeconomic instruments;

- Guidelines and quality standards for reclaimed water;

Case studies; and

Demand management.

!!! Information: http://www.zer0-m.org/medawaterconf/

!!! Contact: Dr. Ahmed Ghrabi (LEE): ahmed.ghrabi@inrst.rnrt.tn;

Dr. Latifa Bousselmi (LEE): latifa.bousselmi@inrst.rnrt.tn;

Dipl.-Ing. Dr. Barbara Regelsberger (AEE INTEC): b.regelsberger@aee.at

Portugal ECOSUD 2007

5th – 7th September 2007, Coimbra

Organiser: Wessex Institute of Technology, University of Coimbra, University of

Siena

The aim of the conference is to encourage and facilitate the interdisciplinary communication between scientists, engineers and professionals working in ecological systems and sustainable development. Emphasis will be given to those areas that will most benefit from the application of scientific methods for sustainable development, including the conservation of natural systems around the world. The Conference objectives have evolved over the years, seeking to integrate thermodynamics, ecology and economics into "ecodynamics".

!!! Submissions deadline: send abstracts as soon as possible

!!! Information: http://www.wessex.ac.uk/conferences/2007/eco07/index.html

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

Italy Sardinia Symposium 2007

1st – 5th October 2007, Cagliari

Organiser: International Waste Working Group (IWWG) and Environmental

Sanitary Engineering Centre (CISA)

The symposium will focus on innovative aspects of Waste Management, presenting new technologies, describing the state of the art and related case studies, discussing the main controversial subjects, sharing experiences among different countries, valuating social and economical balances. The Symposium will include oral presentations, poster sessions, specialized sessions and specific workshops. Before the start of the Symposium, training courses will be offered by IWWG under the supervision of international leading experts.

!!! Contact: info@sardiniasymposium.it

!!! Information: http://www.sardiniasymposium.it/SARDINIA eng/index eng.html

!!! Deadline for abstract submission: 30. October 2006

Turkey 5th World Water Forum

March 2009, Istanbul

Organiser: World Water Council

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





Events Reminder

Botswana International Conference on Environmentally Sound

Technology In Water Resources Management

11th - 13th September 2006, Gaborone

Organiser: The International Association of Science and Technology for

Development (IASTED)

Topics of the conference comprise:

- Water Supply and Sustainable Use

- Wastewater and Stormwater Management

- Integrated Watershed Management

- Pollution Prevention and Reduction in Industry

- Issues in Implementing Environmentally Sound Technologies

!!! Information: http://www.iasted.org/conferences/2006/Botswana/c515.htm

!!! Contact: calgary@iasted.org

Jordan Global Conference on Renewable Energy Approaches for

Desert Regions

18 - 22 September 2006, Amman

Organisation: University of Jordan / Renewable Energy Bureau (REB)

This conference will be devoted to the development of wind, solar, biogas and geo-thermal energy in desert areas.

The focal topics are:

Technologies (e.g. biogas)

- Applications of reuse oriented technologies

System Integration (remote areas, rural sites,...)

Management

- Socio-Economic and Environmental Impacts

Legislation and Policies

!!! Information: http://www.ju.edu.jo/confernces/gcreader/Index.htm

!!! Contact: gcreader@ju.edu.jo

Portugal 10th International Conference on Wetland Systems for Water

Pollution Control

23rd – 29th September 2006, Lisbon

Organiser: International Water Association (IWA) Specialist Group on the Use of

Macrophytes in Water Pollution Control

Constructed wetlands are considered low-cost alternatives for treating municipal, industrial and agricultural effluents. A vast amount of literature has been published on various topics including potential use of these systems to remove biochemical oxygen demand, nutrients and to a limited extent metals and toxic organic compounds; engineering assessment and design criteria; and optimization and cost-effectiveness.

The following technical and scientific topics may be addressed in oral presentations and posters:

- Global issues

- Critical Process Dynamics

Design criteria

- Economics

- Treatment Performance of Wetlands in Water Pollution Control

- Case studies





!!! Contact: Veríssimo Dias (Conference Organizer), verdis@gaiagreen.pt

!!! Information: http://www.wetconf10.adp.pt/

Germany Tropentag 2006 – Prosperity and Poverty in a Globalized

World. Challenges for Agricultural Research.

11 – 13 October 2006, Bonn

Organisation: Council for Tropical and Subtropical Research (ATSAF e.V.),

Universities of Berlin, Goettingen, Hohenheim, Bonn and Kassel-

Witzenhausen, in cooperation with BEAF/GTZ

The Tropentag 2006 will discuss global challenges such as an improved livelihood, health and education of the rural population as well as reduced pressure on the environment by agricultural production. Multi-disciplinary sessions will try to tackle issues of resource allocation and use, biodiversity and income generation of different scales.

!!! Information: http://www.tropentag.de/conference/general.php?menu=2

!!! Contact: info@tropentag.de

Germany 1st Aachen Congress on Decentralised Infrastructure Water-

Energy-Waste

17 - 18 October 2006, Aachen

Organistation: Pruef- und Entwicklungsinstitut fuer Abwassertechnik, RWTH Aachen

Discussion topics encompass new sanitary systems, decentralised energy supply, small wastewater treatment plants, innovative decentralised traffic systems, closing the loop regarding water and nutrient cycles, production of service water, water and energy supply and sanitation for tourist infrastructure.

!!! Information: http://www.pia.rwth-aachen.de/aktuelles.htm

!!! Contact: krumm@isa.rwth-aachen.de

Greece 1st International Symposium on Water and Wastewater

Technologies in Ancient Civilizations (WWTAC'06)

28 - 30 October 2006, Heraklion/Kreta

Organisation: International Water Association (IWA)

The aim of this symposium is to examine which ancient water and wastewater technologies might still be relevant today. Topics include methods and techniques of water management over time, urban water use and urban wastewater and stormwater technologies.

For people interested in ecosan, this symposium offers the appropriate platform to demonstrate how relevant ecosan has been throughout history.

!!! Information: http://www.nagref.gr/symposium/

!!! Contact: angelak@nagref-her.gr





Jordan Regional EMWater Project Conference on Efficient

Management of Wastewater Treatment and Reuse

30th October – 1st November 2006, Amman

Organiser: organised in the framework of EMWater Project, funded by the

European Union - the MEDA Water Program Initiative

All MEDA countries are currently facing serious problems regarding the supply of sufficient water resources to cover their increasing water supply demands. In the year 2025, countries like Jordan, Israel and Palestine will have less than 150 cubic meters per capita and year. Other countries like Syria and Lebanon, at present classified as "water rich", will also face similar water stress problems during the next two decades. Therefore, these countries need water strategies that have to take into account alternative measures to cope with this situation. Wastewater reuse is one of the essential options MEDA countries have to consider for the development of their national water policies and strategies.

Conference Themes

Appropriate and non-conventional wastewater treatment technologies

- Operation and maintenance of wastewater treatment system

- Health and environmental aspects of WWT

- Wastewater treatment

- Socioeconomic aspects of wastewater treatment and reuse

- Policy guidelines, regulations and standards of wastewater treatment and reuse

- Sustainable urban drainage systems (SUDS)

Capacity building

!!! Contact : Dr. Ismail Al Baz, Fax: +962 6 5686184, ismailalbaz@nets.com.jo

!!! Information: http://www.emwater-conference.org/

Lebanon Water Resources in the Mediterranean Basin

1st -3rd November 2006, Tripoli

Organiser: Lebanese University in co-operation with the Lebanese Committee for

Environment & Sustainable Development

The conference themes comprise:

- Integrated water resources management

- Global change: effects on water resources

- Optimisation of water use in terrestrial ecosystems

Mediterranean aquatic systems functioning

- Domestic and industrial wastewater : treatment and reuse

Water quality, pollution and health

Hydrology - Hydrogeology

Water Resources Policy

!!! Information: http://www.watmed.com/English/Conference/Page.aspx?PageID=9

!!! For more information: info@watmed.com

Austria "Shit Happens IV" – Ecological Sanitation Systems: An

Option for the Alpine Region?

07 November 2006, Wien

Organisation: EcoSan Club Wien, Institut fuer Siedlungswasserbau of the University

of Natural Resources and Applied Life Sciences, Vienna (BOKU) and

Umwelt- und Alternativreferat der OEH BOKU.

The envisaged programme of the fourth "Shit Happens" event includes:

 Peter Kapelari, Austrian Alpine Club: Difficulties and problems of sanitation in the Alpine Region





- Gunnar Amor, Planner: Planning and implementation of the sanitary concept for the "Bettelwurfhuette" (Karwendel, Tirol)

 Christian Gschnitzer, lodge manager of Bettelwurfhuette: Operation of the sanitation system and experience gained from practice

Wolfgang Becker, Institut fuer Infrastruktur und Umwelttechnik, University of Innsbruck: The sludge problematic in high mountains

!!! Information: Elke Muellegger, EcoSan Club, Tel.: +43/(0)1 – 405 38 17

!!! Contact: elke.muellegger@ecosan.at

Sri Lanka Sustainable Development of Water Resources, Water Supply

and Environmental Sanitation

13th - 17th November 2006, Colombo

Organiser: Institution of Engineers, Sri Lanka and Water, Engineering and

Development Centre (WEDC), U.K.

Papers are invited under the following themes:

Water resources, Water supply, Environmental sanitation, Institutional issues, Cross-cutting issues.

!!! Information: http://wedc.lboro.ac.uk/conferences/conference1.php?ID=7

!!! For more information: wedc.conf@lboro.ac.uk

USA 16th Annual Technical Education Conference and Exposition

10 - 15 March 2007, Baltimore/Maryland

Organisation: National Onsite Wastewater Recycling Association (NOWRA)

NOWRA is the largest organization in the USA dedicated solely to educating and representing members within the onsite and decentralized industry. The overall program theme will be Integrated Water Resource Management and Distributed Systems. Session topics include: management, assessment and monitoring of decentralized systems within a watershed, applications of integrated water resource management in watersheds, nutrient reduction strategies, re-use and reclamation successes, bio mimicry applications, groundwater impacts of medical discharges, citizen involvement in planning decentralized systems, and more.

!!! Contact: shc@umn.edu

!!! Information: http://www.nowra.org/?p=645

Germany Advanced Sanitation

12 -13 March 2007, Aachen

Organisation: Institute of Environmental Engineering RWTH Aachen University (ISA)

and the International Water Association (IWA)

Conference topics include:

- Decentralized Wastewater Systems (on-plot systems)
- Advanced Systems for Urban and Rural Sanitation
- High-Tech Systems for Wastewater Treatment
- Non-Conventional Wastewater Treatment Systems, Concepts and Technologies
- Ecological/Environmental/Sustainable Sanitation (source control, separation systems, reuse systems, closed loop sanitation systems, etc.)
- Decision Support Systems: Centralised vs. Decentralised Wastewater Systems





- Economics (financing and cost recovery, cost-effective sanitation, pricing and tariffs, capital efficiency, utility finance, benchmarking, cross and direct subsidies, etc.)

Social aspectsCase studies

!!! Information: http://www.advancedsanitation.de/

!!! Contact: lambertz@advancedsanitation.de

Australia 2nd IWA-ASPIRE Asia-Pacific Regional Group Conference

and Exhibition

28 October - 01 November 2007, Perth

Organisation: Australian Water Association (AWA) and International Water

Association (IWA)

The conference will focus on the design, operation, maintenance and management of water and wastewater systems. Innovations in the field, case studies on safe and reliable systems for removal of nutrients, water reuse, and methods of better operation will also be discussed. There will be a specific emphasis on issues facing the Asia-Pacific Region. Ecosan-relevant topics are especially wastewater treatment and onsite and small scale systems.

!!! Information: http://www.awa.asn.au/AM/Template.cfm?Section=ASPIRE_2007

!!! Contact: aspire@awa.asn.au

!!! Deadline for submission of abstrakts: March 30th 2007

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 would greatly appreciate your calling our attention to additional links of interest:

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 simply as text, with no attachments of any sort, instead, documents are always offered as download-links from our website. If you do receive a 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 (expansion and update in progress):

http://www.gtz.de/ecosan (new)

http://www2.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 The GTZ ecosan team:

Christine Werner, Florian Klingel, Hagen von Bloh, Carola Israel

GTZ, Division 44: Infrastructure and Environment

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

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Mailing list / **Newsletter**

- usei 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 from which you are currently using to send the request.

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.

enc

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

ecosan sector program

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