

ecosan – newsletter - Nr. 29 - Oct 2008 - english



This quarterly newsletter edited by the ecosan programme of gtz, Germany, addresses people interested in ecological sanitation (ecosan) or closed-loop approaches for wastewater management and sanitation.

Welcome to gtz's ecosan newsletter issue no. 29!

All editions of the English version are distributed via e-mail in the text-only format. You can also download German, French, Spanish, English and Chinese versions as pdf files from our web-site.

Downloads:

German: <http://www.gtz.de/de/Dokumente/de-ecosan-nl29-2008.pdf>

Spanish: <http://www.gtz.de/de/Dokumente/es-ecosan-nl29-2008.pdf>

French: <http://www.gtz.de/de/Dokumente/fr-ecosan-nl29-2008.pdf>

English: <http://www.gtz.de/de/Dokumente/en-ecosan-nl29-2008.pdf>

Chinese*: <http://www.gtz.de/de/Dokumente/cn-ecosan-nl29-2008.pdf>

[from around October 2008]

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

We, the gtz ecosan team, hope you enjoy the current issue.

Your contributions

This newsletter lives through your contributions. So please keep sending your suggestions, requests and information to be published in this newsletter to ecosan@gtz.de. If you have any questions or comments about the newsletter you can also e-mail Arne Panesar directly (arne.panesar@gtz.de) Thank you in advance for any contribution.



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- India: City pays users to use toilet in Musiri, Tamil Nadu
- India: Wherever-The-Need helps bring another ceramic UDDT squatting bowl to the market
- Mexico Ecosan micro enterprise founded

Publications

- "The last taboo" by Maggie Black and Ben Fawcett
- "Impacts of long-term greywater disposal on soil properties and reuse in urban agriculture in an informal settlement – A Case Study of Waruku, Nairobi"
- "Progress on drinking water and sanitation: Special focus on sanitation – JMP 2008"
- "Parasitic Ova and Pathogenic Bacteria in Human Excreta of Urine-Diverting Dehydration Toilets in Cagayan de Oro City 2007 -2008: A Preliminary Report"
- "The flow of phosphorus in food production and consumption, - Linköping, Sweden"

New on the net

- Sanimap, a new google earth-based tool for sustainable sanitation projects
- ASKnet officially launched!
- Sanlexicon

Trainings and courses

02/03/09-01/07/09 Internet course "Fundamentals and applications of ecosan", worldwide

Events – new

- 18-19/11/08 Sanitation Options in the Asia Pacific, Hanoi , Vietnam
- 02–02/12/08 DWA-Seminar 'Neuartige Sanitärsysteme', Weimar, Germany
- 15–17/12/08 Int. Conference on Environment 2008 (ICENV 2008) Penang, Malaysia
- 29–30/01/09 Water efficiency in Urban areas, Würzburg, Germany
- 15–22/03/09 5th World Water Forum, Istanbul, Turkey
- 10–13/05/09 International Conference on Nutrient Recovery from Wastewater Streams Vancouver, Canada
- 13–15/05/09 4th International Conference on Sustainable Development and Planning, Cyprus
- 18–22/05/09 34th WEDC International Conference, Addis Ababa, Ethiopia
- 09–13/06/09 2nd International Conference on landscape and urban horticulture, Bologna, Italy
- 17–19/06/09 5th International Water, Wastewater, and Recycling Technology Expo and Forum, Jakarta, Indonesia
- 08–10/07/09 7th International Conference on Ecosystems and Sustainable Development, Chianciano Terme, Italy
- 12–15/08/09 3rd International Dry Toilet Conference, Tampere, Finland
- 06–09/09/09 Emerging solutions to water and sanitation challenges, Mexico city, Mexico

Events - Reminder

- 13–15/10/08 Moving organic waste recycling towards resource management and bio-based economy, Wageningen, Netherlands
- 13–17/10/08 Aguasan-Workshop, St. Gallen, Switzerland
- 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
- 17-20/11/08 Second Int. Symposium on Energy from Biomass & Waste, Venice, Italy
- 18–19/11/08 International Conference - Sustainable Environmental Technology and Sanitation for Tropical Region, Surabaya, Indonesia
- 19–21/11/08 Sanitation for the Urban Poor: Partnerships and Governance, Delft und Amsterdam, The Netherlands
- 01/05-31/10/10 World EXPO 2010, Shanghai, China

In-house news

Changes in the GTZ ecosan team

Robert Gensch, who had been working with the GTZ ecosan team since Feb 2007 has now joined the Xavier's University in the Philippines as a CIM expert on ecological sanitation from the first week of August 2008. Robert's main tasks in his new assignment will be to strengthen and broaden the knowledge and understanding of ecological sanitation in the School of Medicine, to improve lecture and training materials as regards ecological sanitation for the academic and outreach clientele and to coordinate the integration of ecological sanitation projects in outreach programs in order to contribute to overall sustainable development in Northern Mindanao. He will also assist in setting up the new "Ecosan Research and Training Center for Southeast Asia and the Pacific" and help establish closer linkages and cooperation with local and international government and non-government organizations regarding integrated health programs, particularly ecological sanitation aspects. We wish him success in his endeavours.

We are pleased to welcome the following intern to the gtz ecosan team **Rahul Ingle** from India. Rahul is an Infrastructure planner (MSc) from the University of Stuttgart, Germany.

He wrote his master thesis on 'ecological sanitation: A feasibility study of Sanitation technologies for an orphanage in rural Orissa, India.' He has previously worked in architecture, project management and sustainable environmental management for almost 6 years. He is doing his internship at the gtz ecosan team in Eschborn from 1 July 2008 to 30 November 2008.

Preparation for the "ecosan - Exposure Dialogue programme" in 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, economics and society in general to live with a poor family in a developing country for two full days, and thus 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). Participants in this particular sanitation EDP include representatives of the KfW, gtz, private companies, civil society and members of the German parliament.

!!! **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>

Coming soon

04–06/11/08 **World Toilet Summit and Expo, and**
05–06/11/08 **8th meeting of the Sustainable Sanitation Alliance (SuSanA),**
Macau, China

Organiser: World Toilet Organisation (WTO), Asian Development Bank ADB

An initiative of the WTO since 2001, the World Toilet Summit (WTS) is an annual gathering of experts with focused discussions that promote clean toilets, sanitation issues and hygiene. The event has been held around the world, including Singapore, Korea, Taiwan, China, Ireland, Russia, and India, with the 2008 Summit being staged in Macau.

During the event the document "Sustainable pathways for achieving the MDGs" will be launched and presented to the public. On day 3, a section of the event is dedicated to innovative instruments for financing sustainable sanitation.

The 8th meeting for the Sustainable Sanitation Alliance (SuSanA) will be held in combination with the WTS. A draft programme will soon be available on the SuSanA website (<http://www.susana.org>).

!!! **Information :**

http://www.worldtoiletevents.com/index.php?option=com_content&task=view&id=16&Itemid=30

!!! **Contact:** info@worldtoiletevents.com

16–21/11/08 **3rd South Asian Conference on Sanitation (SACOSAN-III),**
New Delhi, India

Organisation: Department of Drinking Water Supply, Ministry of Rural Development, Government of India

The South Asia Conference on Sanitation (SACOSAN) is a 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 developing an action plan for the future.

The overall goal of the conference is to accelerate the progress of sanitation and hygiene promotion in South Asia to enhance peoples' quality of life in fulfilment of the MDGs and the commitments made in the World Summit on Sustainable Development in the year 2000.

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.nic.in/infosacosan/home.aspx>

!!! Program: <http://ddws.nic.in/infosacosan/tentative.aspx>

!!! Download: Case studies
<http://ddws.nic.in/infosacosan/home.aspx>

News from Eawag / Sandec

New compendium supports environmental sanitation

Eawag/Sandec has worked over the last two years to develop a "Compendium of sanitation systems and technologies". This joint production by Sandec and WSSCC has been developed to support the wider HCES ("Household-centred environmental sanitation") planning approach, by pulling essential information together in one volume and promoting a systems approach. The ten-step HCES departs radically from central planning approaches since it places the household and neighbourhood at the core of the sanitation planning process.

!!! Information: <http://www.sandec.ch/>

!!! Download:
http://www.eawag.ch/organisation/abteilungen/sandec/publikationen/publications_sesp/hces_guidelines

!!! Contact: info@eawag.ch

Reuse oriented sanitation topics in "Sandec news" from August 2008

The current issue (Aug 2008/09) of the Sandec news discusses the trends towards biogas plants for the treatment of organic solid waste in cities, the conversion of organic refuse by Saprophages, forage plants used in faecal sludge dewatering beds and a range of other interesting re-use oriented sanitation topics.

!!! Download :
http://www.eawag.ch/organisation/abteilungen/sandec/publikationen/publications_sandec/index_EN

News from SEI / Ecosanres

Pathways for Sustainable Sanitation in Achieving the MDGs – SEI/IWA publication

This report provides a critique that the UN has not yet introduced the concept of sustainability into the MDG programme in general and in particular into the sanitation sector which is highly dysfunctional and suffering from limited political leadership at both the local and global levels. It introduces the various sustainable sanitation options available and what approaches can be taken to improve sanitation systems – not just toilets which are only a small part of the overall system of food, nutrients and water cycles.

The publication "Pathways for Sustainable Sanitation in Achieving the MDGs" has been written by the team of EcoSanRes. It is at the same time a product arising from the work of the Sustainable Sanitation Alliance (SuSanA) which was initiated in an attempt to inject sustainable development ideas into the sanitation sector.

!!! Information:

<http://www.iwapublishing.com/template.cfm?name=isbn9781843391968>

!!! Download:

(presentation on the document at the 7th SuSanA meeting in Stockholm, August 2008)
http://www.susana.org/index.php?option=com_content&view=category&layout=blog&id=136&Itemid=180&lang=en

!!! Contact: arno.rosemarin@sei.se

Classic SEI publications translated

Peter Morgan's great book "Toilets that make compost" is now available in French.

!!! Download: available soon on <http://www.reseaucrepa.org>

Some of the other newly translated publications from SEI in Spanish include

1. Lineamientos para el Uso Seguro de la Orina y de las Heces en Sistemas de Saneamiento Ecológico
2. Lineamientos para el Uso de la Orina y de las Heces en la Producción de Cultivos
3. Desviación de Orina: Un Paso Hacia el Saneamiento Sustentable

!!! Download : http://www.ecosanres.org/spanish_publications.htm

SEI has also translated its publication "Guidelines for the reuse of urine and faeces in crop production" in Portuguese.

!!! Download: http://www.ecosanres.org/portuguese_publications.htm

News - general

Short report from the World Water Week held on 17 – 23 August 2008, Stockholm

The 2008 World Water Week held in Stockholm concluded on 23rd August declaring that slow progress on sanitation will cause the world to badly fail the Millennium Development Goals while weak policy, poor management, increasing waste and exploding water demands are pushing the planet towards the tipping point of the global water crisis. Around 2 400 scientists, government leaders and civil society stressed the need for action on water and sanitation.

This year's World Water Week had a special focus on sanitation in response to the UN International Year of Sanitation and the event was truly an Olympiad of sanitation knowledge sharing, apparent from the programme schedule (see link below). It was a break-through for mainstreaming reuse oriented sanitation systems, and demonstrated that CLTS (community-led total sanitation) is a suitable methodology to trigger people centred approaches which may help to increase ownership and identify options that provide long-term sustainable solutions.

Professor Malin Falkenmark when summarizing the week concluded that "after more than 10 years, the Stockholm Water Symposium call for nutrient recycling is indeed starting to come true. This represents an opportunity of global significance in a time of rising peak oil, of rising costs of fertilisers, and of dwindling phosphorus-mineral sources."

A related press release by the German Ministry for Development Cooperation (BMZ) highlighted the role of ecosan in the efforts for sustainable sanitation.

The task is now to keep the momentum going which the topic sanitation has achieved this year.

!!! Download: (Programme of the Stockholm WWW 2008)

<http://www.worldwaterweek.org/programme/index.asp>

!!! Download: (Speech and ppt of Prof. Malin Falkenmark)
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-world-water-week-short-report-2008.pdf>

!!! Download: (German press release during the WWW)
<http://www.worldwaterweek.org/press/index.asp>

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

Short report on the 7th meeting of the "Sustainable Sanitation Alliance"(SuSanA) 22 – 24 August in Stockholm, Sweden

The Stockholm World Water Week (WWW) was followed by the 7th meeting of SuSanA from 22 to 24 of August at the Swedish Environmental Institute (SEI) in Stockholm. Around 120 people from 80 organisations took part in the event.

On the first day of the meeting which was especially meant for new participants interested in the network, the vision documents of the SuSanA were discussed after a general introduction to the network. Further topics covered were a wrap-up of the MDG indicator discussion at the WWW as well as the presentation of the new google Earth-based tool for sustainable sanitation projects (see link below).

On the second day, several of the 12 thematic working groups held working group meetings to further develop their products. All the thematic working groups presented their current progress and achieved results in a plenary meeting on the second day.

On the third day, the new SuSanA website and the capacity development resource DVD were presented. Afterwards, the SuSanA partners exchanged information and ideas on the current and future structure of the network in a vivid discussion.

The next SuSanA meeting will take place in Macao, China, on 5 – 6 November during the same time period as the World Toilet Summit and World Toilet Expo at the same location.

The minutes from the 7th SuSanA meeting and the presentations from this meeting are available at the SuSanA website (link below).

!!! Information: <http://www.susana.org>
(minutes of SuSanA meeting, programme of 8th SuSanA meeting in Macao)

!!! Link: <http://www.sanimap.net>

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

Presentations from the IWA World Water Congress and Exhibition held in Vienna, Austria

The International Water Association's (IWA) 2008 World Water Congress and Exhibition was held from 7 – 12 Sept. in Vienna, Austria. The technical programme of this conference ranged from the critical issues of climate change, explosive population growth, a global sanitation crisis and urbanisation to emerging breakthroughs in biotechnology and the leading-edge of applied research and technology.

Issues relating to sustainable sanitation in developing countries and developed countries were addressed in a number of interesting presentations. The press release by IWA (for link see below) stated that: "*The new "Development Corner" brought Congress delegates a highly interactive series of debates on how to ramp up efforts to connect billions of needy citizens in the developing world to water systems. [...] In 2009, IWA will begin hosting a global biannual Development Congress – the first venue being Mexico City – as part of an extensive programme of activities to make progress in the Developing world.*"

A few of the presentations from the conference which cover ecosan and related topics, can be downloaded from the links provided below.

!!! Downloads:

Elisabeth von Münch: 'Sanitation and related sustainability criteria – How to indicate the quality of sanitation?', gtz, Germany
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/nl29/en-presentation-iwa-vienna-sustainability-criteria-evm-2008.pdf>

Steffen Blume: 'Two years of experiences from a urine diversion project in gtz Headquarters, Eschborn, Germany, GTZ, Germany
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/nl29/en-presentation-iwa-vienna-gtz-project-house1-blume-2008.pdf>

Günter Langergraber: 'The ROSA project – A new approach to sustainable sanitation in Eastern African cities', Institute of Sanitary Engineering and Water Pollution Control, BOKU
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/nl29/en-presentation-iwa-vienna-langergraber-2008.pdf>

R. Törnqvist, A. Norström, E. Kärrman, P.-A. Malmqvist: 'A framework for planning of sustainable water and sanitation systems in peri-urban areas', Swedish Water House, Stockholm, Sweden
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/nl29/en-presentation-iwa-vienna-norstrom-2008.pdf>

Anton Peter-Fröhlich: 'Experiences with Sanitation Concepts for Separate Discharge and Treatment of Grey-, Brown- and Yellowwater based on an EU Demonstration Project', Berliner Wasserbetriebe, Berlin, Germany
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/nl29/en-presentation-iwa-vienna-froehlich-2008.pdf>

Dr. Helmut Lehn: 'Criteria and indicators for sustainable sanitation', ITAS / FZK, Germany
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/nl29/en-presentation-iwa-vienna-lehn-2008.pdf>

!!! Download: (IWA press release)
http://www.preceptstudio.com/IWA/pdfs/2008-09-14_IWA-World-Water-Congress-Closing-Review.pdf

Short report on Berlin Water Workshop at the KWB

The 19th Berlin Water Workshop was held on 18 September at the Kompetenzzentrum Wasser Berlin (KWB), and Elisabeth von Münch from the GTZ Ecosan programme was an invited speaker to give a presentation on: "GTZ projects for sustainable sanitation with a focus on closed-loop systems for nutrient recovery (ecosan)". The presentation was given under a wider topic of how to develop public-private partnership in the German development cooperation. Among the topics discussed by the participants was the available information on quantifiable benefits of sustainable sanitation projects when compared to disposal-oriented sanitation systems in developing countries.

!!! Information:
<http://www.kompetenz-wasser.de/Berlin-Centre-of-Competence-for-Wat.1.0.html?&L=1&type=title%253DAccelerate>

!!! Contact: elisabeth.muench@gtz.de

!!! Download
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/de-gtz-ecosan-projekte-aktivitaeten-kwb-2008.pdf>

UN Secretary-General Ban Ki-moon calls for accelerated implementation of sanitation programmes

In his address to the high-level segment of CSD-16 in May this year, the UN Secretary-General Ban Ki-moon, said it was "*clear that the rate of progress is still too slow to meet the MDG-7 environmental sustainability targets*". He reiterated that delegates had stressed "*the need to raise public awareness; the need for increased funding, not least to guarantee affordable water and sanitation for the poor; and the need to incorporate a gender perspective into the water and sanitation agenda*". He urged the ministers "*to make best use of the opportunity provided this year by the International Year of Sanitation to raise awareness and accelerate implementation of that agenda*".

One of the items on the agenda in the 16th session of the United Nations Commission on Sustainable Development (CSD-16) 2008 in New York, was the review of progress in implementing CSD-13 decisions on water and sanitation.

!!! Information and Download: <http://www.un.org/esa/sustdev/csd/review.htm>

!!! Contact: mediainfo@un.org

Monitoring drinking water supply and sanitation – preparing the next set of indicators

The current definitions, indicators and reporting systems used to monitor drinking water supply and sanitation were designed and developed over the last twenty years. According to the Joint Monitoring Programme (JMP) 2004 estimates, 80% of the urban population has access to improved sanitation (JMP 2006). The JMP is not a specific survey but utilises existing household survey data that is collected through MICs/DHS, census and other approved nationally representative household surveys. As these surveys in some cases do not count slums in cities as urban, but as rural, they could lead to the impression, that little funding is needed for sanitation in the urban context. International and national statistics consistently underestimate the proportion of urban households living in poverty without basic services like safe water and adequate provision for sanitation. This is due to the fact that government defined 'poverty lines' do not reflect the high cost of meeting basic needs in a monetized urban economy. This is reflected in the great discrepancy between monitoring results and the reality on the ground. As we approach the MDG target date of 2015, it is important to re-examine monitoring systems and indicators that are used, and propose new generation indicators capable of more sensitive monitoring at all levels. A seminar was organised at the World Water Week to bring together experts and organisations to highlight existing gaps in the data and capacity gaps, reasons for the discrepancies in the monitoring outcomes and identify practical and realistic ways to improve the definitions, indicators and systems for better monitoring.

!!! Information:

<http://www.worldwaterweek.org/programme/thursday/thu18-movingbeyond2015.asp>

!!! Download: (Presentation "Moving Ahead in Monitoring Drinking Water and Sanitation")
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-mgd-monitoring-stockholm-www-2008.pdf>

WSSCC Global Sanitation fund launched

To help meet the goal of ensuring improved sanitation and hygiene for all, the Water Supply and Sanitation Collaborative Council (WSSCC) has created the Global Sanitation Fund. The purpose of WSSCC's Global Sanitation Fund is to help large numbers of poor people to attain safe and sustainable sanitation services and adopt good hygiene practices. The Global Sanitation Fund is a single pooled fund open to contribution from any source including governments, foundations, private sector and individuals. The money is allocated to Executing Agencies in carefully selected countries, which then grant funds to Sub-Grantees who implement the sanitation and hygiene work programmes agreed for each country.

The Global Sanitation Fund was officially launched on 14 March 2008. After pledges from donors totalling more than US\$ 50 million (EUR 32 million), the fund is now taking its first concrete steps in Nepal, Madagascar and Uganda, and discussions with the governments of Burkina Faso, Senegal and India are in progress. Pakistan is likely to become the final country to be part of Round 1 funding.

Jon Lane, Executive Director of WSSCC, stresses that the Global Sanitation Fund is demand-driven and people-centered. *"The Global Sanitation Fund will not embark on the construction of kilometres of sewerage pipes and other huge construction projects, since*

top-down investments in the sanitation sector don't reach the poorest people. The Global Sanitation Fund will support programmes that have been developed through decision-making processes involving local communities and will concentrate on hygiene education, raising awareness and creating demand."

!!! Information:

<http://www.wsscc.org/en/what-we-do/global-sanitation-fund/index.htm>

!!! Contact: wsscc@who.int

!!! Download: <http://www.wsscc.org/en/what-we-do/global-sanitation-fund/index.htm>

Gandhi's re-use oriented toilet recreated

Gandhi, the father of Indian independence, believed in the responsible disposal of human excreta to prevent diseases. He was aware of the nutrients present in the faeces and urine and recommended its use in the fields.

The toilet used by Gandhi was removed from his residence-turned-museum, the Sabarmati Ashram in the west of India, two decades ago as it was deemed inappropriate for the surroundings by the authorities of the ashram.

A replica of the mobile toilet used by Gandhi has been recreated in his residence turned museum in the west of India. Gandhi used to say 'cleanliness is next to godliness'. He cleaned the toilet himself referring to it as his "temple".

!!! Download:

<http://www.telegraph.co.uk/news/newstoppers/howaboutthat/2823640/Mahatma-Gandhis-mobile-toilet-recreated.html>

Saragossa prize goes to ecosan poster

Dr. Graciela Sanguinetti from Rosario Argentina received the Cosmos prize of the International Bureau for Exhibitions for her poster (in Spanish) on: "Sanidad ecológica de activación de los elementos patológicos en los excrementos humanos de las letrinas secas, y en el uso de las aguas residuales" (Ecological safety of activated pathogens contained in human excreta from dry toilets and in wastewater). With her poster and paper, Graciella received the honor and 20,000 Euros just before the official closing of the International Exhibition Zaragoza 2008. The motivation from the jury was that the project has an enormous potential for all developing countries with emphasis on future environmental protection and improved livelihood for the communities.

!!! Information: <http://www.bie-paris.org/main/index.php?lang=1>

<http://www.europapress.es/epsocial/fundaciones/noticia-proyecto-argentino-reutilizacion-residuos-humanos-aprovechamientos-agrarios-gana-premio-cosmos-20080908165310.html>

<http://noticias.terra.com/articulo/html/act1410115.htm>

Ecosan in the focus of the Charles Cooper annual memorial lecture

At the 2nd Charles Cooper annual memorial lecture, Shyama Ramini of the National Institute of Agricultural Research in France explores why it makes economic sense to invest in research and development that specifically targets low income groups, with the greatest unmet needs. The complementary role of firms, non-governmental organizations and the State in promoting innovation for development, highlighting some successes that can be adapted in other developing country contexts is highlighted.

!!! Information: <http://www.merit.unu.edu/charlescooper/lecture2.htm>

!!! Contact: (Mrs. Shyama Ramini) shyama_ramani@yahoo.com

!!! Download: (Presentation - Playing in invisible markets: Innovating to harness the economic power of the poor through toilets)

<http://www.merit.unu.edu/charlescooper/lecture2.htm>

Jobs

Botswana - Advisor Water Policy Development - gtz

SADC (Southern African Development Community) has set itself the goal of promoting cooperation among its 14 member countries in the fields of policy, economy and ecology on a basis of regional integration.

As "Subject Matter Specialist for programme management and water policy development" you will be responsible for analysing the relevant water policies, frameworks and strategies and preparing recommendations for the implementation water policy improvements. A strong focus will be given to the development of IWRM plans.

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60089303

Saudi Arabia - Water regulations consultant - gtz

The Kingdom of Saudi Arabia is facing tremendous challenges of its water and energy administration during the last years. The Ministry of Water and Energy (MOWE) is in charge of these important topics. There is a huge need of consultancy and assistance on the highest level of technology by international experts.

Your tasks will include assisting in setting up and regulatory body for the water sector.

Reference number: TG-345/08

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60090014

Saudi Arabia - Water Management consultant - gtz

Your tasks will include setting water and sewage service leading practices and monitoring in urban and suburban regions.

Reference number: TG-344/08

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60090013

Tanzania - Water Sector Advisor - Planning and Monitoring- gtz

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

Your tasks will include provide advisory services to the Ministry of Water and Irrigation (MoWI)

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60087652

Uganda - Various Senior Experts for the Mapping of Groundwater Resources- gtz

GTZ International Services is going to bid for an upcoming tender on mapping of groundwater resources in Uganda for which various senior experts are required.

Reference number : MK-304/08

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60089358

Egypt - Adviser on policy development in the water sector- gtz

In coordination with the sectoral institutions, the Ministry of Housing, Utilities and Urban Communities is working on a new sector policy and sector strategy to design the necessary political framework. Since August 2007, the programme has been helping the partners develop these strategies in one of the programme components.

You will assist the Senior Policy Advisor in providing advisory services to the Ministry of Housing to develop a sector strategy for water supply and sanitation.

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60087651

News from the Pilot projects ...

German Cooperation

Albania: Potential for introducing sustainable sanitation analysed

Water and sanitation is a focus of the bilateral Albanian-German Development Cooperation. The ongoing Technical Cooperation (TC) project "Advice on the Decentralisation of Albanian Water Supply and Sewerage Sector", which is implemented by GTZ on behalf of the Federal Ministry for Economic Cooperation and Development (BMZ), is focussing on water sector policy reforms. One of the project components – "Raise awareness and acceptance to low-cost-sanitation-systems" – focuses on the promotion of appropriate and affordable sustainable sanitation solutions in Albania.

In this context in June 2008 a first sensitisation mission of an international consultant has been conducted for the description of the political, economical, and socio-cultural context and frame conditions for the introduction of sustainable sanitation systems in Albania.

Options for implementing pilot and demonstration projects are currently analysed.

!!! Contact: Andreas Kanzler Andreas.Kanzler@gtz.de

P.R. China: Ecological sanitation in Beijing's Olympic Forest Park

The Olympic Forest Park (700ha) in Beijing is expected to receive over 5 million visitors per year. Its size, distinguished landscape design, and a source separation based sanitation system, make the park unique. The idea to establish an alternative sanitation system in the park was born from economic considerations, when the high building and maintenance costs of conventional solutions were estimated. Primary aims of the reuse-oriented sanitation systems applied were to reduce the overall mass flow and to guarantee environmentally sound and hygienically safe management of the collected materials.

The applied technologies range from Urine-Diverting-Dehydration-Toilets, over separating to non-separating flush systems. The nutrients (20t N, 3t P, 9t K) contained in the estimated annual 4.400m³ of yellow-water and 1.400t of compost are to be recycled back into productive ecosystems.

The development of an elaborate product use strategy is currently supported by gtz-ecosan.

A short report and a presentation on the project are now available online.

!!! Download: (One-page report; english)

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-ecosan-beijing-olympic-forest-park-report-2008.pdf>

!!! Download: (presentation)

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-ecosan-beijing-olympic-forest-park-ppt-2008.pdf>

!!! Contact:

Heinz-Peter Mang mang@ecosan.net.cn; Arne Panesar Arne.Panesar@gtz.de

Philippines: Information on the ecosan-Act discussed by the Philippine Government and many other up-dates can be found in gtz-Philippine "Waterlink and Solid Waste" Newsletter

How strong and dynamic the Philippine ecosan movement is can be easily seen in the recent issue of the gtz-Philippines "Waterlink and Solid Waste" newsletter.

Topics covered include:

- the formulation of an ecosan-Act as currently discussed by the Philippine central government,
- contributions of the gtz Water and Sanitation Programme to the International Year of Sanitation
- Information on capacity development workshops for ecosan
- Process of the EcoSanRes Program in developing a regional knowledge node for ecosan in the Philippines.
- "Handbook for farmers" published by Periurban Vegetable Project (PUVeP) Xavier University College of Agriculture

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

!!! Download:

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-philippines-newsletter-water-link-2008.pdf>

!!! Contact: Claudia Woelk claudia.woelk@gtz.de

Philippines: ecosan on the website of the German Embassy, Manila

Organisation: German Embassy, German Technical Cooperation (GTZ) and the Center for International Migration and Development (CIM).

Ecosan-Initiatives in Mindanao, supported as "Small-scale Development Projects" by the German Embassy, are highlighted as a prime example for joint co-operation on the Embassy's website. Projects mentioned are the "allotment gardens equipped with ecological sanitation (ecosan) toilets" in the communities of Maramag, Kauswagan, Gusa and Carmen, Cagayan de Oro; and APO Island in Negros Oriental.

!!! Information:

http://www.manila.diplo.de/Vertretung/manila/en/05/Wirtschaftliche_Zusammenarbeit/Development_cooperation.html

!!! Contact: deboma@pltdsl.net / Robert.gensch@cim.de

Burkina Faso: Update on the EU-ACP Water-Facility ecosan project in Ouagadougou

An update on the gtz-supported EU-ACP Water-Facility ecosan project in Ouagadougou was given during the Stockholm Water Week 2008 by Crepa, along with an overview on Crepas activities to support ecosan in WestAfrica.

Currently 50 masons have been trained to build 4 different toilet types, gardeners and farmers have been consulted on their needs and trained on the application of treated faeces and urine on their crops, households have been consulted on their preferences, and community based organisations have been supported in setting up collection and transport businesses. 367 homes are now using urine diverting dry toilets and 11 public toilets have been built in and around communal structures, and gardeners have already begun harvesting products.

!!!Contact: Amah Klutse amahklutse@yahoo.fr

!!! Download:

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-crepa-ecosanres-strategy-lessonslearnt-www-2008.pdf>

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-crepa-ecosanres-sanitation-projects-www-2008.pdf>

**News from the
pilot projects ...
other
cooperations**

Rwanda: UDD toilets for a primary school in Muyogoro (Rwanda)

The "Rwanda Village Concept Project"(RVCP) - an interdisciplinary, international student run development organization based in Butar (Rwanda), has taken a step forward on its way to improving the living conditions of the rural population in Rwanda. Several Ecosan UDD toilets (UDD = urine-diversion dehydration) have been installed in a primary school in the small village of Muyogoro in Huye District.

Muyogoro primary school comprises 8 classes of up to 50 students each, and the number is still growing. Before receiving the UDD toilets the students had to cope with using only four basic pit latrines in very poor conditions.

With the knowledge gained through the ecosan online course from UNESCO-IHE, through UDD experienced local constructors and through the funding from international members of RVCP, it has now been possible to provide four UDD toilets at Muyogoro primary school. About 130 fifth and sixth grade students aged 12-16 will be using them. Facilities for hand washing and for composting the dried faeces from the UDD toilets are planned to be finished this year.

All school children have received education on the use and care of their new toilets, along with a basic knowledge on hygiene. The official launch of the UDD toilets was held on 25 August 2008.

The improved cleanliness of the toilets is expected to raise children's willingness to use them, thus improving hygiene in the school area. Additionally, the ecosan system has an income-generating effect for the community since the toilet was constructed by paid local workers (in cooperation with volunteering parents), and the composted faeces and the urine can be sold or used as fertilizer on the school-owned fields.

This pilot project will be evaluated by RVCP in order to assess, adapt and spread the approach to other groups in the region.

!!! Information: <http://www.rwanda-vcp.org>

!!! Contact: info@rwanda-vcp.org

!!! Video: <http://www.youtube.com/user/d0rn30>

Nepal: ecosan UDD toilets changes the lives of villagers of Siddipur

According to the newspaper The Kathmandu Post, the villagers of Siddhipur used to walk around 10 minutes to the open defecation area several times per day. The residents of the village suffered from water borne diseases. The Department of Water Supply and Sanitation (DWSS) along with the World Health Organisation initiated a pilot project in Siddhipur in the year 2002 by constructing four communal toilets. Following the pilot project various NGOs stepped in to support the further expansion of the toilets resulting in more than 100 household owned ecosan UDD toilets. Krishna Mahajan, the chairperson of Siddhipur Integrated Water and Sanitation Users Organisation says that the water borne diseases are now almost nil in the village.

The ecosan UDD toilets have been attractive in the context of Nepal mainly because of its unique system of converting human waste into fertilizer and biogas. According to DWSS more than 1000 ecosan UDD toilets have been built throughout Nepal and most of them are located in the Kathmandu valley.

!!! Information: The Kathmandu Post, 3 August, Page:3

<http://www.nepalnews.com.np/ktmpost.htm>

Mozambique: Star singer Feliciano dos Santos receives the Goldman Environment award 2008 in San Francisco for his sanitation work and songs

Feliciano Dos Santos, one of Mozambique's biggest Afro Pop stars, is a unique singer who sings songs about health and sanitation. His hit song 'Wash your hands' is helping save lives of many people in Niassa. Santos plays music and also runs a non profit NGO called Estamos which aims at promoting better health through cleaner drinking water and ecosan UDD toilets. Santos, himself a polio victim due to contaminated water is committed to work for his homeland and through the sanitation campaign work for the betterment of his community. He was recently bestowed with the 2008 Goldman Environment prize of US\$150,000 in San Francisco for his unique contribution.

!!! Information: <http://www.goldmanprize.org/2008/africa>
http://www.estamos.org.mz/ver_english/index.html

!!! Video: <http://www.pbs.org/wgbh/pages/frontline/video/share.html?s=frow03n8cfq17d>

Mongolia: Swedish 'no flush' toilets help fight Mongolian drought

Swedish Urine Diversion Dehydration Toilets (UDDTs) have been deployed in inner Mongolia - a booming region of China suffering from chronic water shortage. A Swedish-backed organic toilet project has been launched in the region to address at least one of the problems of a water shortage.

The residents of the city of Dongsheng share the equivalent of 100 litres of water per person per day making it one of the driest places on earth, according to Svenska Dagbladet. When there is only sufficient water for the barest daily necessities a UDDT seemed a natural step for the inhabitants of this harsh terrain to take. The toilets use no water at all and produce only compost. Dongsheng households employing the technology use a third less water than normal, enough to persuade the city to launch a large scale project in 2002.

The Swedish-designed UDDTs have been installed in 832 apartments in 42 four to five storey buildings in Dongsheng. The total cost of the project, financed by SEI's public and private partners, equates to around 170 million kronor (\$28.4 million).

!!! Information: <http://www.thelocal.se/13348/>

!!! Contact: arno.rosmarin@sei.se

India: City pays users to use toilet in Musiri, Tamil Nadu

In the town of Musiri in Tamil Nadu, India, people queue up outside the community toilet where an innovative concept has been implemented for the first time in India to pay the users for using the new community toilets. Residents are given cards on which each trip is marked off. At the end of the month, residents can cash out the cards. Users can receive up to about 0.15 \$ a month for using the UDD community toilet block. Not a high amount, but the motivation for this project is to change the mind-set towards excreta reuse – underlining the value they have.

The government-backed program encourages people to discard age-old practices of urinating and defecating in the open, leading to diseases. The waste products are used in research projects to test and demonstrate their effectiveness as fertilizers.

Mr. Subburaman from the local NGO SCOPE says that more than 150 people use the toilets every day. As a next step, a liquid fertilizer bank is foreseen where urine is collected, hygienised, sold as liquid fertiliser and brought to the fields of those farmers that are buying it.

!!! Information: <http://edition.cnn.com/2008/WORLD/asiapcf/07/07/india.toilets/>
<http://www.scopetrichy.com>, http://www.scopetrichy.com/First_ECCT_Musiri.asp

!!! Contact: scopeagency86@rediffmail.com

India: Wherever-The-Need helps bring another ceramic UDDT squatting bowl to the market

Wherever-the-need (WTN) India is promoting and implementing ecosan in India, and has contributed in bringing another ceramic squatting bowl onto the Indian market.

An example for WTNs projects in India is the women only eco-sanitation complex at Mohan Singh Street in Cuddalore. In this complex, compressed earth blocks were used for construction. It has been designed for the use of three hundred and fifty women and their children. It gives these women not just UDD toilets, but bathing and clothes washing facilities as well, all in a well built enclosure thereby ensuring privacy.

Two short documents, one with examples of technical drawings for WTN sanitation complexes, with photos from these facilities, and one with pictures from the new ceramic UDDT squatting bowls – along with pictures from other currently available UDDT bowls in India, are now available online.

!!! Information: <http://www.whenevertheneed.org.uk/archive/india.htm>

!!! Download:

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-wtn-sanitation-facilities.pdf>
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-uddt-toilet-bowls-used-in-india.pdf>

Mexico Ecosan micro enterprise founded

In Mexico, the ecological micro enterprise EcoSencia has been founded. EcoSencia focuses on the design and commercialisation of ecosan system components adapted to needs of implementers and users of ecosan technologies. The enterprise has a strategic alliance in the fields of design and capacity building with Sarar Transformación SC, a well-established international consultancy for ecosan based in Tepoztlán, Mexico

!!! Information: <http://www.sarar-t.org>

!!! Contact: Ana Parra, mexisan@gmail.com

!!! Download: (Article "Starting sanitation as a business" - in Spanish)

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/es-starting-sanitation-as-a-business-2008.pdf>

!!! Download: (Educational videos on YouTube)

UDDT (in Spanish): <http://www.youtube.com/watch?v=sdCWuCwAKaY>

Publications

The Last Taboo, Maggie Black and Ben Fawcett

Maggie Black and Ben Fawcett (2008) "The Last Taboo." - Earthscan, ISBN: 978-1-84407-543-0

This book breaks the silence surrounding today's sanitation crisis. It de-couples water from sanitation and argues that to make real progress in sanitation we need a radical new mindset. Today, a sanitary reform is needed, one that manages to spread cheaper and simpler systems to people everywhere. In the byways of the developing world much is happening on the excretory frontier. This book takes us on a tour of those endeavors, in the company of today's sanitary heroes. During this International Year of Sanitation, the authors bring this awkward subject to a much wider audience with both humor and impeccable taste. They seek the elimination of the Great Distaste that people have for sanitation and shit so that people without political clout or economic muscle can claim their right to a dignified and hygienic place to defecate.(UNICEF)

!!! Information: http://www.bbc.co.uk/radio4/womanshour/01/2008_12_wed.shtml

Impacts of long-term greywater disposal on soil properties and reuse in urban agriculture in an informal settlement – A case study of Waruku, Nairobi

Mungai G. G. (2008): "Impacts of long-term greywater disposal on soil properties and reuse in urban agriculture in an informal settlement – A Case Study of Waruku, Nairobi." - MSc Thesis, UNESCO-IHE, Institute for water education.

This master thesis recommends regular monitoring of site-specific greywater and soil, and appropriate management practices such as periodic leaching. These are needed to mitigate the negative impacts of greywater reuse in urban agriculture due to high soil sodium accumulation and salinity build up. Despite these challenges, the study also revealed the opportunities that exist in greywater reuse in urban agriculture. It is a powerful means for water conservation and nutrients recycling thereby reducing demands for freshwater and mitigating pollution of aquatic systems.

!!! **Contact:** George Mungai mungaigg@yahoo.co.uk

Progress on drinking water and sanitation: Special focus on sanitation – JMP 2008

WHO/UNICEF JMP (2008): Progress on drinking water and sanitation- special focus on sanitation; UNICEF, USA; ISBN 978 92 806 4313 8/ ISBN 978 92 4 156367 3

As 2008 is the International Year of Sanitation (IYS), the WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (JMP) has taken the opportunity to make sanitation a major focus in its 2008 update report, entitled Progress in Drinking-water and Sanitation: special focus on sanitation.

This report details global progress towards the Millennium Development Goal (MDG) target for drinking-water and sanitation, and analyses what these trends suggest for the remainder of the UN Decade "Water for Life" (2005 - 2015).

It introduces a new way of assessing global, regional and country progress using the "ladder" concept for both sanitation and drinking-water. For sanitation, trends in using improved, shared, and unimproved sanitation facilities are shown, in addition to the trend in open defecation. The intention is to continue refining the "ladder concept" and therefore disaggregated data presentation in future reports.

!!! **Contact:** contact@wssinfo.org

!!! **Information and download:** http://www.wssinfo.org/en/40_MDG2008.html

Parasitic Ova and Pathogenic Bacteria in Human Excreta of Urine-Diverting Dehydration Toilets in Cagayan de Oro City 2007 - 2008: A Preliminary Report"

Gina S. Itchon, Robert J. Holmer & Ma. Luisa B. Tan (2008): "Parasitic Ova and Pathogenic Bacteria in Human Excreta of Urine-Diverting Dehydration Toilets in Cagayan de Oro City 2007 -2008: A Preliminary Report." - Faculty working series no. 11, March 2008; Kinaadman Research Center, Philippines

To determine the safety of using human excreta in agriculture, an observational study was conducted primarily to determine the length of time necessary to eradicate parasitic ova and pathogenic bacteria in human excreta kept in the storage vaults of urine-diverting dehydration toilets in Cagayan de Oro City from August 2007 to January 2008. Preliminary results of this study show that the micro-organisms decrease considerably during the six months that data has been collected for this study.

The most common intestinal parasite ova in this study are: *Ascaris lumbricoides*, Hookworm, *richuris trichura* (whip worm), and *Enterobius vermicularis* (pin worm). These are also the most common intestinal parasites in Filipinos. Furthermore, it has also been shown that *Ascaris* ova, which have a thick cell wall, are the most resistant to drying and desiccation, making their infectivity a distinct possibility.

Two important conclusions can be drawn from the results. First, the micro-organisms do not pose a public health threat if human excreta are used in agriculture. However, helminth eggs may still be infective and hence, six months is not adequate to dehydrate human faeces and render them safe for agricultural use. This seems to be especially true in a tropical country like the Philippines where ambient humidity is high most months of the year. Second, to render human excreta safe for agricultural use, secondary treatment is necessary.

!!! Contact: rjholmer@yahoo.de

!!! Download: http://puvep.xu.edu.ph/publications/itchon_ecosan_cdo.pdf

The flow of phosphorus in food production and consumption, Linköping, Sweden, 1870-2000

Schmid Neset TS, Bader HP, Scheidegger R, Lohm U. (2008): "The flow of phosphorus in food production and consumption, Linköping, Sweden, 1870-2000." Department of Water and Environmental Studies, Linköping University, SE-58183 Linköping, Sweden.

Phosphorus is an important substance for agricultural production of food. The study shows the changes in flows within the system of production and consumption of food, as well as between the different processes in this system, such as agriculture, food processing, consumption and waste handling, and output flows to the environment. The main changes in this system over time are a) the increasing flow of phosphorus reaching the consumer and hence the waste handling system, b) the increase in the flow of products from animal production, which mainly causes the increase in (a), and most notably c) the increased input of chemical fertilizer.

!!! Information: <http://www.ncbi.nlm.nih.gov/pubmed/18377956>

!!! Contact: tinsc@tema.liu.se

New on the net

Sanimap, a new google earth-based tool for sustainable sanitation projects

The Japan Water Forum (JWP) as a partner of the Sustainable Sanitation Alliance (SuSanA) has introduced a new google earth-based tool for sustainable sanitation projects. Projects and project data sheets can be accessed with reference to location.

!!! Information: <http://www.sanimap.net>

ASKnet officially launched!

ASKnet, the African Sanitation Knowledge Network (ASKNet) is an African association of individuals, groups, institutions and organizations. ASKNet members seek collaboration with each other and like-minded organizations to advance the performance and sustainability of sanitation services, development of sanitation policies, professional education and research related to these areas.

!!! Information: <http://www.asknet-office.net/>

Sanlexicon

Sanlexicon is a Wiki providing definitions of technical terms related to all aspects of sanitation and excreta management (technical, financial, institutional, and social).

It is an open source web platform designed to promote a common understanding of technical terms related to all aspects of sanitation and excreta. It currently has definitions for about 150 terms, ranging from Arbor-loo to opeioners on defecation and from PHAST to water seal.

Ecosan practitioners are motivated to contribute to the Sanlexicon, in order to include ecosan-related terms.

Sanlexicon is a joint initiative between the International Water Association and the London School of Hygiene and Tropical Medicine.

!!! Information: <http://sanlexicon.net/>

Source: Adapted from the IRC-source weekly 2008 No 4; June 2008

Training events and courses

02/03/09-01/07/09 Internet course "Fundamentals and applications of ecosan" worldwide

Organisation: UNESCO-IHE, Delft

The topics of this online course, which has been conducted three times so far, 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 powerpoint 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.

!!! 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) or also via SuSanA website (without login → give that link as well)

!!! Download (Feedback of 3rd online course):

<http://www2.gtz.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

Events

new

18–21/11/08 Sanitation Options in the Asia Pacific, Hanoi, Vietnam

Organisation: IWA (International Water Association) and SEAWUN

The first of three annual conferences to be jointly organised by IWA and SEAWUN, the 2008 Conference will have a specific theme on sanitation options in the Asia-Pacific, in line with 2008 being the International Year of Sanitation.

The objective of the conference is to attract top international water and sanitation experts to share their expertise, knowledge and experiences with managers, operators and practitioners within the region, who would otherwise be unlikely to gain access to such information elsewhere. IWA and SEAWUN hope that participants will be able to learn and apply the knowledge that they gain from interactions at this conference to address similar challenges back home.

Conference will have simultaneous translation provided in Vietnamese. For this conference, a strong preference towards abstracts focusing on applications, case studies and lessons learnt would be preferred, although submissions of a scientific nature are also welcomed.

!!! Information: <http://www.iwa-seawun-hanoi2008.com/conference.html>

!!! Contact: hanoi2008@iwahq.org

02/12/2008 DWA-Seminar “Neuartige Sanitärkonzepte”, Weimar, Germany

Organisator: DWA and Bauhaus-University Weimar

During the meeting of the German Association for Water, Wastewater and Waste (DWA) at Bauhaus University in Weimar on 2nd December, the results of the KA1 “new sanitary systems” DWA-committee and their 6 associated working groups will be displayed. The overall aim of this meeting is to provide an exchange of experiences, provide help and introduce the different available new sanitary systems. It shall also give us an insight into current research & development on new sanitary systems and highlight the specific demands for further research in this field.

!!! Information:

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/de-dwa-weimar-neuartige-sanitaersysteme-2008.pdf>

15–17/12/2008 International Environment Conference 2008, Penang, Malaysia

Organised by: School of Chemical Engineering, Universiti Sains Malaysia (USM)

Theme:

Environmental Management and Technologies Towards Sustainable Development

Topics:

- sustainable management of environment; wastewater, solids and hazardous waste
- water supply
- air pollution mitigation, monitor, control technologies
- life cycle assessment, risk assessment, health and safety impact assessment
- cleaner technologies; control, treatment & remediation techniques
- environmental and legal issues, awareness, law & policies

- e-waste management
- carbon credits, sustainable & green energy

!!! **Contact:** Prof Abdul Latif Ahmad icenv2008@eng.usm.my

!!! **Information:** <http://www.irc.nl/url/26246>

29-30/01/2009 Water efficiency in urban areas, Würzburg, Germany

Organisation: Ostbayerisches Technologie-Transfer-Institut e.V. (OTTI) – Regensburg

Even in urban areas of developed countries it becomes evident that the conventional centralized water infrastructure concept has drawbacks and sustainability deficits especially when it comes to water use efficiency and to its adaptability to changing demographic and climatic situations. New approaches are necessary to balance water demand for various residential, commercial, industrial and agricultural users. The supply requires an integrated management of both, natural water resources as well as reuse of appropriately treated wastewater.

The 1st International Conference on Water Efficiency in Urban Areas will bring together planners from the housing industry, urban planners, architects, utilities, wastewater administration unions, engineers and scientists active in the field of water efficiency, politicians, building technicians and consultants.

!! **Information:** <http://www.eawag.ch/veranstaltungen/20090129/index?lang=en>

!!! **Contact:** gabriele.struthoff-mueller@otti.de

16-22/03/2009 5th World Water Forum, March 2009, Istanbul, Turkey

Organiser: World Water Council

The 5th World Water Forum will be held in Istanbul, Turkey, from 15th to the 22nd March 2009. The Forum is an open, all-inclusive, multi-stakeholder process, which is the culmination of over two years of preparatory activities. It aims to raise the importance, awareness and understanding of water issues and propose concrete solutions to address global challenges.

!!! **Information:** <http://www.worldwaterforum5.org/>
<http://www.worldwatercouncil.org/index.php?id=1842>

10-13/05/2009 International Conference on Nutrient Recovery from Wastewater Streams, Vancouver, Canada

Organisation: Technische Universität Darmstadt, Germany and University of British Columbia, Vancouver, Canada

Closing the loop for nutrients in wastewaters (municipal sewage, animal wastes, food industry, commercial and other liquid waste streams) is a necessary sustainable development objective, to reduce resource consumption and greenhouse gas emissions. This conference will bring together the various waste stream industries, regulators, researchers, R&D and process engineers and commercial managers, to develop intersectorial understanding and possible joint projects.

!! **Information:** http://www.phosphorus-recovery.tu-darmstadt.de/index.php?option=com_content&task=view&id=59&Itemid=1

!!! **Contact:** Don Mavinic, University of British Columbia dsm@civil.ubc.ca

13-15/05/2009 4th International Conference on Sustainable Development and Planning, Cyprus

Organisation: Wessex Institute of Technology, UK and University of Thessaly, Greece

The conference addresses the subjects of regional development in an integrated way as well as in accordance with the principles of sustainability. It has become apparent that planners, environmentalists, architects, engineers, policy makers and economists have to work together in order to ensure that planning and development can meet our present needs without compromising the ability of future generations.

Effective strategies for management should consider planning and regional development, two closely related disciplines, and emphasise the demand to handle these matters in an integrated way. This conference provides a common forum for all scientists specialising in the range of subjects included within sustainable development and planning.

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

!!! **Download:**

<http://www2.wessex.ac.uk/09-conferences/sustainable-development-2009.html>

!!! **Contact:** jsolanki@wessex.ac.uk

18-22/05/2009 34th WEDC International Conference, Addis Ababa, Ethiopia

Organisation: Water, Engineering and Development Centre WEDC, Loughborough,

The focus of this year's conference is on 'Water, Sanitation and Hygiene: Sustainable Development and Multisectoral Approaches'. Improving water supplies and environmental sanitation has moved from being a subject only for technical specialists to one involving a wide range of people, from policy-makers to community workers, from social scientists and economists to faith-based groups and campaigners for women's rights. Governments, communities and the natural environment are complex; sustainable development requires action from various perspectives to make a lasting positive change.

The 34th WEDC International Conference will bring together practitioners, decision-makers and researchers from different sectors and from the field, government office or university laboratory, to exchange views and present the latest findings through presentations, discussions and informal networking, with field trips to examples of current work in Ethiopia.

!!! **Information:** http://www.wedconference.co.uk/call_for_papers.php

!!! **Download:** http://www.wedconference.co.uk/author_info.php

!!! **Contact:** wedc.conf@Lboro.ac.uk

09-13/06/2009 2nd International Conference on landscape and urban horticulture, Bologna, Italy

Organisation: Alma Mater Studiorum

The topics of the conference are:

- Food and flowers production in/for the cities: Urban horticulture in developing and developed countries, for food and flower production;
- Urban landscape horticulture: public and private ornamental green in the cities;
- Urban horticulture meets architecture (points of view and meeting points of landscape horticulturists and architects);

- Ecophysiology and vegetation management in urban environment: including pest management, environmental stresses and nutrition;
- Green roofs, vertical gardens and living walls: innovative solutions for green cities;
- Interior landscape: use of ornamental green in homes and commercial buildings for a better environment;
- Plants in historical gardens: varieties conservation, introduction and management.
- Social and psychological role of horticulture in the urban environment: including Hort-Therapy

!!! Information: <http://luh2009.sistemacongressi.it/index.htm>

!!! Download: <http://luh2009.sistemacongressi.it/callforabstracts.htm>

!!! Contact: dista.luh2009@unibo.it / alessandro.chiusoli@unibo.it

17-19/06/2009 5th International Water, Wastewater, and Recycling Technology Expo and Forum, Jakarta, Indonesia

Organisation: NAPINDO at the Jakarta Convention Centre, Jakarta - Indonesia

INDO WATER 2009 Expo & Forum is a biennial event in Indonesia with special emphasis on water management and wastewater technology as economic resources and its public nature as a social resource. The INDO WATER 2009 will promote the development and advancement of the water and wastewater industry as well as assist in solving the water and wastewater problems in Indonesia through product display, technological exchange and seminars.

!!! Information: <http://www.indowater.com/>

!!! Download:

http://indowater.com/index.php?option=com_content&task=view&id=1&Itemid=1

!!! Contact: info@indowater.com

08–10/07/2009 7th International Conference on Ecosystems and Sustainable Development, Chianciano Terme, Italy

Organisation: Wessex Institute of Technology, UK and University of Siena, Italy

The aim of the Conference is to encourage and facilitate the interdisciplinary communication between scientists, engineers, economists 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".

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

!!! Download: <http://www2.wessex.ac.uk/09-conferences/ecosud-2009.html>

!!! Contact: carlos@witpress.com

12–15/08/2009 3rd International Dry Toilet Conference, Tampere, Finland

Organisation: The Global Dry Toilet Association of Finland, in cooperation with Tampere University of Technology, TAMK University of Applied Sciences and University of Tampere.

The purpose of the DT2009 is to continue the progress achieved by the previous conferences, DT2003 and DT2006, organized in 2003 and 2006 respectively. The objective of the conference is to offer a discussion platform for professionals and other interested parties and to distribute the latest information about various aspects of dry toilets.

Main topics are

1. Health and Safety
2. Technical development of dry toilets
3. Social, cultural, economic and gender aspects related to dry sanitation

!!! Information: <http://drytoilet.org/dt2009/>

!!! Download: <http://drytoilet.org/dt2009/call.html>

!!! Contact: secretary2009@drytoilet.org

06–09/09/2008 Emerging solutions to water and sanitation challenges, Mexico City, Mexico

Organisation: International Water Association (IWA) and National Autonomous University of Mexico (UNAM)

IWA is pleased to announce the 1st IWA South-South Conference, to be held in Mexico in 2009. The 2009 IWA South-South Conference will bring together 1,000 international water and sanitation professionals to discuss emerging solutions, developments and approaches to sustainable water and sanitation management, and exchange knowledge on all aspects of service delivery in low/middle income countries. In addition to many international subjects and issues related to water and sanitation delivery, the Mexico City conference will pay particular attention to the needs of the Latin American region, its mega-cities, urban centres and peri-urban areas.

!!! Information: <http://www.iwa2009mexico.org>

Events Reminder

13-15/10/2008 Moving organic waste recycling towards resource management and bio-based economy, Wageningen, The Netherlands

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

13-17/10/08 Aguasan-Workshop St. Gallen, Switzerland

Oranisation: 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?

Note this workshop is by invitation only.

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

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

14–17/10/08 International symposium: Coupling sustainable sanitation and groundwater protection Hannover, Germany

Organizer: Bundesanstalt für Geowissenschaften und Rohstoffe (BGR), German Federal Ministry for Economic Cooperation and Development (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

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

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 compared to 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

**17–20/11/2008 Second Int. Symposium on Energy from Biomass & Waste
Venice, Italy**

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 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

**18–19/11/2008 International Conference - Sustainable Environmental
Technology and Sanitation for Tropical Region,
Surabaya, Indonesia**

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/>

**19–21/11/08 Sanitation for the Urban Poor: Partnerships and
Governance, Delft and Amsterdam, The Netherlands**

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

01/05–31/10/10 World EXPO 2010, Shanghai, China

The theme of the world EXPO 2010 is “Better City, Better Life”. An ecosan study undertaken in preparation of the EXPO 2010 has been presented at a DWA-BMZ-gtz Symposium (date?) 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

Search the archive of all past newsletters

If you would like to search the archive of all past newsletters (7 years worth of newsletters!), then the easiest way to do this is to do so on Google - for example for articles on Malawi put “ecosan NL Malawi”) or on biogas put “ecosan NL biogas”. This method gives pretty good results in our experience and brings up articles of our past newsletters.

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>

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 ecosan program or about ecosan in general? If so, visit our homepage or send us an e-mail.

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

ecosan@gtz.de

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.

The newsletter has been edited by Arne Panesar.

Contact

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Mailing list / Newsletter user information

How to use the ecosan mailing list

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

majordomo@mailserv.gtz.de

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

If you attach a signature block to the end of your e-mailed messages, the Majordomo software can 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.

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