

ecosan – newsletter – no. 24 – 05/2007 – 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. 24!

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

!!! Downloads:

German: <http://www.gtz.de/de/Dokumente/de-ecosan-nl24-2007.pdf>

Spanish: <http://www.gtz.de/de/Dokumente/es-ecosan-nl24-2007.pdf>

French: <http://www.gtz.de/de/Dokumente/fr-ecosan-nl24-2007.pdf>

English: <http://www.gtz.de/de/Dokumente/en-ecosan-nl24-2007.pdf>

Chinese*: <http://www.gtz.de/de/Dokumente/cn-ecosan-nl24-2007.pdf>
(from June 2007)

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

Your ecosan team hopes you will 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!



Contents

- In-house News** - Changes in the GTZ ecosan team
- News from IWA** - News from the IWA specialist group (SG) on “resources oriented sanitation”
- News from EcoSanRes** - “International Conference on Sustainable Sanitation – Eco-Cities and Villages” in Dongsheng / Erdos, China, 27-31 August 2007
- News - general**
- The second meeting of the “Sustainable Sanitation Alliance” (SuSanA) stresses the holistic approach behind the initiative
 - Report from the UN’s preparatory meeting for the UN International year of Sanitation
 - Workshop on Sustainable Sanitation in East Asia
 - The EU-NETSSAF project gets off the ground
 - The African Water Facility (AWF) supports innovative approaches and technologies and could finance ecosan activities
 - UK Liberal Democrats adopt motion on water and development
- Jobs**
- India: Advisor for decentralised wastewater management - Madurai – CIM
 - Uganda: Expert in water management – Kampala – CIM
 - Rwanda: Institutional and Organizational Development – gtz
 - Jordan: Programme head for the management of water resources - Amman – gtz
 - Egypt: Expert strategy advisor in water supply and wastewater - Cairo – gtz
 - Afghanistan: Advisor for water sector coordination – gtz
 - Ethiopia: Project manager – Protection of basic services, social accountability – gtz
 - Algeria: Junior expert “Water management” – gtz
 - Burundi: Junior expert “Strategic advice to the water ministry” - gtz
 - Ethiopia: Visiting professor in "Urban Design and Development"
- News from the pilot projects**
- India: ecosan at the 39th IWWA Convention in Mumbai
 - India: ecosan training programme launched
 - Ecuador: ecosan network created
 - Kenya: EU-GTZ ecosan promotion project starts
- German Cooperation**
- News from the pilot projects**
- India: ecosan training for masons in Bihar-State
 - India: ecosan approach applied in India’s Total Sanitation campaign
 - Burkina Faso: Film festival and ecosan
- others**
- Technology update**
- Chinese ash dispenser and Indian squatting pans for UDDTs
 - Purinex-Filter for precipitate free urine pipes
- Publications**
- “Global Change - Enough Water for All?”
 - Faecal attraction: CSE’s new film on river pollution
 - Rain water use fbr issue 6
 - Environmental history of water: global views on community water supply and sanitation
- Publications ...on the web**
- Logistic aspects of ecosan in urban areas – MSc-Thesis
 - Toilets that make compost – from Peter Morgan
 - A closer look at urine separation - EAWAG
 - Excreta disposal for emergency situations – WEDC
 - Options for urban sanitation and urban agriculture in Ghana and Lima – MSc Thesis
 - Urine diversion in cold climates – WECF
 - Sustainable development for all – WECF
 - From pit latrines and ecosan in Romania – WECF
- Trainings and courses**
- | | |
|------------|---|
| 9-27/07/07 | UNESCO-IHE ecosan short course |
| 3-14/09/07 | Next ESF ecosan-training starts September 3rd 2007, India |
| Sep. 2007 | UNESCO-IHE online ecosan course |
| Oct. 2007 | Joint European Master in Environmental Studies (JEMES) |
- Events – new**
- | | |
|-------------|---|
| 05-07/06/07 | Anaerobic digestion in mountain area and isolated rural zones, Chambéry, France |
| 12-15/06/07 | Sustainable Energy Week, Singapore |
| 24-27/06/07 | Biosolids 2007, Moncton, New Brunswick, Canada |

03/07/2007	Stuttgarter Wissenschaften – Solutions for one world, Stuttgart, Germany
05-10/08/07	Planning the Urban Environment, Berlin, Germany
12-18/08/07	World Water Week, Stockholm, Sweden
20-22/08/07	2 nd IASTED Int. Conference on Water Resources Management, Honolulu, Hawaii
23-27/09/07	11 th World Congress on Anaerobic Digestion, Brisbane, Australia
09-11/10/07	Tropentag 2007, Witzenhausen, Germany
31/10-3/11/07	World Toilet Summit 2007, New Delhi, India
19/11/ 2007	World Toilet Day, global
12-16/11/07	Latin America Regional Sanitation Conference, Cali, Colombia
26-28/11/07	International Conference on Sustainable Sanitation – Food and Water Security for Latin America, Fortaleza Ceará, Brazil
November 07	Launching of IYS activities by the UN, global
November 07	East Asian Ministerial Sanitation Conference (EaSan), Beijing, China
18-20/02/08	African Ministerial Sanitation Conference (AfricaSan), South-Africa
25-29/02/08	14 th African Water Association Congress, Cotonou, Benin
07-11/04/08	Access to Sanitation and Safe Water: Global Partnerships and Local Actions, Accra, Ghana
06-09/06/08	1 st Int. Conference on Sustainable Biosystems, Perth, Australia
Events – reminders	
03-06/06/07	4 th IWA Leading Edge Conference & Exhibition on Water & Wastewater Technologies, Singapore
20-22/06/07	Energy 2007, The New Forest, UK
25-28/06/07	Novatech 2007, Lyon, France
27-29/06/07	4 th International Conference on The Impact of Environmental Factors on Health; Malta
15-17/08/07	SUSTAIN, Gauteng, South-Africa
27-31/08/07	Sustainable Cities and Villages, Erdos, China
05-07/09/07	ECOSUD 2007, Portugal
12-14/09/07	New directions in urban water management, Paris, France
27-28/09/07	International Symposium 2007: Water Supply and Sanitation for All, Berching, Germany
01-05/10/07	Sardinia Symposium 2007, Italy
09-12/10/07	6 th IWA specialty conference on wastewater reclamation & reuse for sustainability, Antwerp, Belgium
28/10-1/11/07	2 nd IWA-ASPIRE Asia-Pacific Regional Group Conference and Exhibition, Australia
06-09/02/08	8 th specialised conference on small water & wastewater systems & 2 nd specialised conference on decentralized water & wastewater international network, Coimbatore, India
11/6-14/9/08	EXPO Zaragoza 2008: Water for Sustainable Development, Zaragoza, Spain
31/8 -5/9/08	11 th international conference on Urban Drainage, Edinburgh, UK
08-12/09/08	World Water Congress and Exhibition, Vienna, Austria
24-26/09/08	NETSSAF Final Conference, Ouagadougou, Burkina Faso
March 2009	5 th World Water Forum, Turkey
1/5-31/10/10	World EXPO, Shanghai, China

In-house News

Changes in the GTZ ecosan team

We are pleased to welcome the following new interns to the GTZ ecosan team:

- **Nils Gusky** studied Water Science and Soil Management at the University of Lüneburg on the Suderburg Campus. During his training he worked in Oslo for the EU Interreg IIIB Programme „Flows“, which has the goal of improving information management for flood risks related to climate change. He is working as an intern at the ecosan program in Eschborn from April until the end of June.
- **Yaniv Malz** studies environmental and resource management at the BTU Cottbus. He spent one semester at the UFMG in Belo Horizonte, Brazil, and had a short internship in the field of agricultural waste management in Israel. He started a 3 months internship at the gtz ecosan program in Eschborn in May 2007.

- **Justus Lodemann**, has a diploma in environmental sciences, and is currently studying "Sustainable Development Cooperation" at the Centre for Distance Studies and Continuing Education (TU Kaiserslautern). After having completed an internship at the Federal Ministry for Economic Cooperation and Development (Department 313 – "Water, Energy, Urban Development") and following further education in "Environmental and Resource Management" he will be carrying out an internship with the gtz ecosan program in Eschborn from April to October.
- **Ankur Kalhar**, is a student of the civil engineering department of the Indian Institute of Technology, (IIT) Delhi, and will be carrying out his internship with the gtz ecosan programme in Eschborn from May to July 2007.

News from the IWA specialist group: resources oriented sanitation

News from the IWA specialist group on resources-oriented sanitation

Dear members of the IWA specialist group on "resources oriented sanitation/ecosan"!

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

Specialist Group (SG) meeting, Aachen March 12th 2007

The specialist group meeting following the first day of the IWA conference "Advanced Sanitation" and was attended by 40 people. Most importantly, the **name of the specialist group** was discussed with a range of alternatives put to the vote. A large majority of attendees voted to rename the group "Resources Oriented Sanitation". Additionally new members were elected to the management committee: Dr Paula Paulo, Federal University of Mato Grosso do Sul, Campo Grande, Brazil; Professor Chris Buckley, University of KwaZulu Natal, Durban, South Africa; Professor Chengwen Wang, Tsinghua University, Beijing, China; Dr Gunilla Brattberg, Programme Director, EcoSanRes, SEI, Stockholm, Sweden; Mr. Dayanand Panse, IWWA, India. The meeting also agreed to co-chair Günter Langergraber suggesting a representative from America for the management committee.

The UN have declared 2008 the International Year of Sanitation. Christine Werner, GTZ, informed the meeting of the "Sustainable Sanitation Alliance" which unites various stakeholders to promote sustainable sanitation during 2008. The reuse-oriented sanitation group and IWA headquarters are involved in the Alliance.

Darren Saywell, IWA, provided information on the ongoing work of the **Sanitation 21 Task force**. More information on this can be viewed at

!!! Download:

http://www.iwahq.org/templates/ld_templates/layout_633184.aspx?ObjectId=639578

!!! Download minutes of the SG-meeting: <http://www.ecosan.org>

IWA conference „Advanced Sanitation“, 12-13 March 2007, Aachen, Germany

The Resources Oriented Sanitation SG was involved in the organisation of this conference, which proved to be a huge success with some 200 participants and many valuable contributions on ecosan. The majority of presentations addressed high tech approaches and solutions although there were also a number of valuable contributions on low cost possibilities.

EcoSan Session at the 16th Annual NOWRA and 1st International Conference, 10-15 March 2007, Baltimore, Maryland, USA

At the NOWRA (National Onsite Wastewater Recycling Association) conference the Resources Oriented Sanitation SG co-organised an ecosan session. The contributions to the session yielded a lively discussion. Most of the contributions to the conference included reuse and/or recycling aspects. Even in the keynote speeches, delivered by for example by Paul Reiter (IWA President) and Glenn Gagger (CH2M Hill), it was stated that a change of paradigm towards more resource oriented sanitation systems is required.

International Conference on Sustainable Cities and Villages with a focus on Urban and Rural Ecological Sanitation, Organic Waste Management and Agricultural Reuse, 27-31 August, 2007, Erdos, Inner Mongolia, PR China

The Resources Oriented Sanitation SG supports the organisation of this conference. The deadline for abstracts was April 1. About 320 abstracts were submitted which will be reviewed during May.

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

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

This conference on Ecological Sanitation for South America is supported by the specialist group. The deadline for submission of abstracts is June 15.

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

EcoSan Workshop at the 8th IWA Specialised Conference on Small Water and Wastewater Systems (Small 2008), 5 February 2008, Kumaraguru College of Technology, Coimbatore, India

At the IWA Small 2008 conference, 6-9 February 2008 in Coimbatore, India, an ecosan workshop with a focus on India will be organised.

The group is also distributing sample lectures on ecosan with an introduction video lecture by Ralf Otterpohl (unfortunately a fast internet connection is required with windows explorer) on:

http://stream.mmkh.de/presentations/ecosan_files/fdeflt.htm

There is also plenty of material in the group site <http://www.ecosan.org> and we welcome more material for posting.

All the best, the group team

!!! **Contacts:** Ralf Otterpohl (chair; ro@tuhh.de),
Håkan Jönsson (co-chair; Hakan.Jonsson@bt.slu.se),
Günter Langergraber (co-chair; Guenter.Langergraber@boku.ac.at)

**News from
EcoSanRes**

“International Conference on Sustainable Sanitation – Eco-Cities and Villages” in Dongsheng/Erdos, China, 27 - 31 August 07

Organised by the Municipal Government of Erdos and the Stockholm Environment Institute (SEI) the “International Conference on Sustainable Sanitation – Eco-Cities and Villages” will take place 27-31 August 2007 in Dongsheng/Erdos, China. The conference will showcase the ecosan project for 3 000 people in an urban context implemented in the new Erdos ecotown.

The organisers invite project implementers, practitioners and researchers within the areas of urban and rural ecological and sustainable sanitation, organic waste management and agricultural reuse to share experiences and best practices at this conference.

See the official website for the conference for more details and registration.

!!! Information: <http://www.ecosanres.org/icss>
<http://www.ecosanres.org/dongsheng2007.htm>

!!! Contact [Chinese]: xuginping@acef.com.cn

!!! Contact [English]: dongsheng2007@ecosanres.org

News - general

The second meeting of the “Sustainable Sanitation Alliance” (SuSanA) stresses the holistic approach behind the initiative

Motivated by the UN’s decision to declare 2008 as International Year of Sanitation (IYS), a core group of organisations active in the field of sustainable sanitation took the initiative to form a task force to support the IYS.

In January 2007, a first meeting resulted in a large number of commitments by the participants from various organisations, and in drawing up a first draft of a “joint road map for the promotion of sustainable sanitation within the IYS 2008”.

In order to have a joint label for the planned activities, and to be able to align with other potential initiatives, the group formed the “Sustainable Sanitation Alliance (SuSanA)”.

In order to clarify the goals and objectives of the Sustainable Sanitation Alliance and to communicate them to a broader public it was agreed that a short joint statement shall be developed. A first draft was prepared by a core group and was sent to all active and potential partners (on April 7th 2007) for comments, suggestions and amendments that shall finally lead to a document everybody in the Alliance can agree on.

It can be stated that among the feedback received on the first statement there was a general agreement on the definition of sustainability and related criteria. However, there was a general concern that in the draft the term “ecosan” appeared to be synonymous with the term “sustainable sanitation”. As ecosan is often still perceived by some parts of the wider sanitation community as a brand name for urine diverting dehydration toilets (UDDT), it was feared that the use of the term may lead to the assumption that the Alliance would have a very narrow focus. Therefore, the group embarked on a general discussion on the goals and objectives of the Alliance, during its second meeting, which took place from 16th to 17th April at the Eawag in Duebendorf (Switzerland).

In an in-depth discussion the participants agreed that SuSanA should aim at promoting sustainable sanitation in its broadest sense. The representatives of the “ecosan-community” are seen as important actors among the partners within the SuSanA but it is agreed that the Alliance should not limit itself to a narrow definition of ecosan but widen its focus. The overall goal of the Alliance is to contribute to the achievement of the MDGs by promoting sanitation systems that take all aspects of sustainability into consideration.

The group emphasised that there are different approaches to improve sanitation and therefore it does not promote a specific technology or approach but welcomes all approaches that contribute to improving the sustainability of sanitation systems including change of paradigm from purely disposal oriented systems to reuse oriented sanitation.

In order to clarify and communicate the aim of SuSanA to the wider sanitation community the group expressed the need for a short and precise document that all partners of the Alliance can agree upon. It was agreed that Roland Schertenleib will elaborate a second proposal that will be circulated within the Alliance for comments. The improved document shall then be presented and hopefully endorsed at the next meeting in Stockholm.

The third meeting of the SuSanA steering group is set for August 11th -12th right before the start of the World Water Week in Stockholm, and it will be hosted by SEI/EcoSanRes and organised by SEI/EcoSanRes and gtz. The fourth meeting of the Sustainable Sanitation Alliance is planned for November 3rd -4th, just after the World Toilet Summit in New Delhi, India and will be organised by Sulabh, IWWA and gtz.

The SuSanA is not a new organisation, but rather a global competence network of more than 30 organisations working along the same lines. It is open to others, who want to join and be active in the promotion of sustainable sanitation systems. SuSanA invites other international, regional and local organisations to join the network, contribute ideas, and to become active members in the thematic working groups. Feedback for the advancement of the joint road map is certainly appreciated, as the road map is work in progress, will be continuously up-dated, and will include all joint activities leading towards an increased implementation of sustainable sanitation systems.

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

!!! Downloads:

Short info sheet on the aims of SuSanA (DRAFT):

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-susana-short-statement-2007.pdf>

Programme of the 2nd SuSanA Meeting:

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-agenda-iys-2nd-susana-meeting-2007.pdf>

Minutes of the 2nd SuSanA Meeting:

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-minutes-iys-2nd-susana-meeting-2007.pdf>

Presentations from the 2nd SuSanA Meeting (approx 10 MB):

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-presentations-iys-2nd-susana-meeting-2007.zip>

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

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-susana-joint-road-map-iys-2008.pdf>

Report from the UN's preparatory meeting for the UN International Year of Sanitation in New York on Mai 7th, 2007

More than 100 representatives from governments, UN agencies, universities, NGOs and other stakeholders from 29 countries participated in the preparatory meeting of the International Year of Sanitation 2008 (IYS) which was held on May 7th, 2007, in the UNICEF House in New York. HRH Prince of Orange, Chair of UNSGAB, also welcomed UN Secretary-General Mr. Ban Ki-Moon to the meeting.

At the end of the morning session, moderated by Ms. Uschi Eid, a list of Draft Objectives of IYS was agreed on. In the following High Panel discussion, chaired by HRH Prince of Orange, representatives of governments, financial institutions and civil society shared their views on how to make IYS "the year of real change". At the end of the meeting the "Chair's Summary" and the "Draft Objectives of IYS" (see download) were handed over to the Secretary-General of the United Nations. In his remarks Mr. Ban Ki-Moon concluded that he is "encouraged to know that [the] meeting (...) has produced clear guidance about what we can do not only during the International Year, but beyond it, to bring the issue the attention and political priority it truly deserves".

Several partners of the Sustainable Sanitation Alliance (SuSanA) and representatives of ecosan initiatives were invited to participate in the preparatory meeting and their suggestions to include the need for the development of more sustainable systems and for reuse were included in the objectives of the IYS.

After the UN-meeting the SuSanA-partners invited the participants to a reception to present the Sustainable Sanitation Alliance and to discuss the proposed SuSanA-Roadmap for the IYS.

!!! Contact: IYS2008-c@unsgab.org

!!! Downloads:

Outcomes of the Preparatory Meeting of International Year of Sanitation:

http://www.unsgab.org/top_page.htm

Chair's Summary: http://www.unsgab.org/IYS2008/May0707/chairs_sum.htm

IYS Objectives (Draft):

http://www.unsgab.org/IYS2008/May0707/draft_objectives.htm

Workshop on Sustainable Sanitation in East Asia

Sanitation was high on the agenda as the Water and Sanitation Program brought together government officials, mass media professionals and economists from five East Asian countries to promote sanitation in the region.

The meeting took place at WSP-EAP's Communications Workshop on Sustainable Sanitation in East Asia in Bangkok on 5-6 February 2007. Thirty-five participants from governments (including directors-general and directors) and media (among them chief editors and executive producers) were engaged in mixed sessions of discussion, presentation, group work and exercises with 20 representatives from international organizations such as Unicef, WHO, DfID, Eco-Asia, World Bank External Affairs and WSP. One useful result was the development of a draft media strategy for an upcoming East Asia Sanitation and Hygiene Conference (EASAN). The development of this media strategy had been prepared in working group discussions in each of the five focus countries: Cambodia, Indonesia, Lao PDR, the Philippines and Vietnam. The workshop invited as well a team of East Asian economists in Bangkok for an Economics of Sanitation Initiative meeting.

!!! Contact: Yosa Yuliarsa, wspeap@worldbank.org

Source: WSP [<http://www.wsp.org/news/news.asp?id=51>], 12 Mar 2007;
IRC news weekly no 5/2007 (22.03.2007)

The EU-NETSSAF Project gets of the ground

The 19 partners from 12 different countries in the EU supported NETSAFF project ((Network for the development of sustainable approaches for large scale implementation of sanitation in Africa), have been developing concepts for sustainable, appropriate and practicable sanitation systems since June 2006. In the first 6 months of the project partners focused on establishing a firm foundation on which to base the coming work packages for the next 24 months. Capacity building workshops for national and local authorities and end users are currently being developed, and an initial series of capacity building workshops began in April of this year.

A coordination meeting for the project took place at the end of February and beginning of March in Eschborn (Germany) and Ouagadougou (Burkina Faso), with the next steps in the project and organisational and thematic questions being discussed. A particularly intensive discussion addressed the presentation and evaluation of appropriate sanitation systems for West Africa. Currently a comprehensive overview of existing sanitation systems and the technologies they employ is being established. With the aid of a criteria catalogue that has been developed by the project these systems are being proofed for their appropriateness and sustainability in the West African context. The criteria list is a part of the project document "Criteria for the evaluation and classification of conventional and innovative low cost sanitation technologies" and can be downloaded from the link given below.

!!! Contact: christine.werner@gtz.de

!!! Downloads: <http://www.netssaf.net/111.0.html>

The African Water Facility (AWF) supports innovative approaches and technologies and could finance ecosan activities

The AWF is an initiative led by the African Ministers' Council on Water (AMCOW) to mobilize resources to finance water resources development activities in Africa. The African Development Bank (AfDB) hosts the Facility at the request of AMCOW.

The AWF wants to support sustainable development and ecosan can be linked to several of the areas of intervention mentioned on their website (e.g. Integrated Water Resources Management, Capacity Building, and Environmental Management). Those planning ecosan programs in Africa should therefore consider applying for support from the AWF.

The eligibility criteria (available on the AWF website) should be of special interest for those who want to finance ecosan strategies, programmes and projects, including capacity building measures in Africa: AWF applies fast-approval and flexible procedures and can provide support to all levels of governmental, national and multinational institutions, and even to CBOs. All the institutions need to be African based or at least have a registered base in an African country.

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

UK Liberal Democrats adopt motion on water and development

A motion by the British Liberal Democrat Party that includes proposals to end the Government's policy of preferring water privatisation and largely ignoring public sector schemes was passed on 3rd March 2007. The motion also calls for the adoption of eco-friendly solutions involving human waste recycling and the protection and reinstating of ecosystems. The motion was prepared by Dr. Brian Mathew, whose thesis "Ensuring sustained beneficial outcomes for water and sanitation programmes in the developing world" was published by IRC.

!!! **Contact:** Brian Mathew: brianmathew@onetel.com

!!! **Information** on the thesis "Ensuring sustained beneficial outcomes for water and sanitation programmes in the developing world" [<http://www.irc.nl/page/27612>]

!!! **Download:** <http://tinyurl.com/236loc>

Source: IRC Newsweekly No 5/ 2007

Jobs

CIM positions in India and Uganda

CIM (Centre for International Migration and Development) is a cooperation project of GTZ and the German Federal Labour Office (BA). The programme for integrated experts offers an additional remuneration to qualified European experts signing a contract with local institutions in developing countries. Applicants must have German or a European nationality and should have several years of professional experience in the respective field of specialisation (except for junior positions). Applicants should be fluent in German and should have permanent residence within the EU.

India: Advisor for decentralised wastewater management - Madurai

The DHAN (Development of Humane Action) Foundation is a well known NGO with its headquarters in the southern Indian state of Tamil Nadu. The advisor will support the DHAN Foundation in offering and disseminating decentralised wastewater management systems. As the advisor, you have experience in working with decentralised and closed loop wastewater systems.

Duration: 2 years

Reference number 60074502

!!! **Job description:**

<http://www.cimonline.de/de/bewerber/199.asp?region=Asien&anzeige=60074502>

Uganda: Expert in water management - Kampala

The Water Development Agency in Uganda is the leading governmental agency in the field of water and sanitation, within the Ministry of Water, Lands and Environment (MWE) and is responsible for water supply in small and medium sized cities.

Some of the current challenges facing the Ugandan water sector include: improving institutional and legal frameworks, increasing economic and investment efficiency and an improved cooperation of small water systems with the private sector.

As advisor, your activities include the analysis of town specific development needs, providing support to the water authorities, etc.

Duration: 2 years

Reference number 60073376

!!! **Full job description:**

<http://www.cimonline.de/de/bewerber/199.asp?region=Afrika+s%FCdlich+der+Sahara&anzeige=60073376>

Rwanda: Institutional and Organizational Development – GTZ

The overall objective of the NDBP (National Domestic Biogas Programme) which is hosted by the National Energy Agency for Rwanda (ANER) is to establish a sustainable and commercial domestic biogas sector in Rwanda, resulting in the reduction of biomass resource depletion while providing a significant improvement in the quality of life of the families concerned. Your main task will be to assist in building the institutional and management capacities of the NDBP and the ANER.

Reference code: CW-433/07

!!! Job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_regionen.asp?region=Afrika+s%FCdlich+der+Sahara&anzeige=60073754

Jordan: Programme head for the management of water resources - Amman – GTZ

The programme's objective is to advise, support and reinforce the Jordanian water sector authorities, regional water suppliers and irrigation to enable them to increase their efficiency in managing scarce water resources.

You will direct and coordinate the programme and assume leadership of the programme team. Your responsibility includes the thematic development of the programme and supporting and actively promoting active cooperation with other water sector projects in the country and region. In your position you will represent the programme to third parties and assume coordination of activities with other development institutions.

!!! Full job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_fachgebiete.asp?fachgebiet=Umwelt+und+Infrastruktur&anzeige=60040604

Egypt: Expert strategy advisor in water supply and waste water - Cairo – GTZ

The water supply and sanitation sector in Egypt has been subject to a highly dynamic process of reform over the last several years. You will support the Egyptian side in implementing its reform process.

!!! Full job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_regionen.asp?region=Maghreb+und+Naher+Osten&anzeige=60070328

Afghanistan: Advisor for water sector coordination – GTZ

An improvement in the drinking water supply and wastewater management for the populations of Kabul, Herat and Kunduz is planned through a restructuring and reinforcement of the systems of the water utility.

You will advise the Ministry of Urban Development and Housing, particularly the newly established Department for Urban Water and Environmental Sanitation and will represent water sector in the portfolio of GTZ in Afghanistan.

!!! Full job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_regionen.asp?region=Europa%2C+Kaukasus%2C+Zentralasien&anzeige=60070557

Ethiopia: Project manager - Protection of basic services, social accountability – GTZ

The objective of the project Protection of Basic Services is to bring Government, civil society, and donors together around a common vision of effective service delivery, and improved governance and accountability, based on sound experience.

One component of the Protection of Basic Services Project will focus specifically on strengthening Social Accountability specifically by building capacity of local Civil Society Organizations (CSOs) to engage with government on issues relating to the delivery of pro-poor basic services. The responsibility of the Project Manager is to ensure the effective implementation of activities that are included under this component to strengthen Social Accountability.

Reference code: DS-541/06

!!! Full job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_regionen.asp?region=Afrika+s%FCdlich+der+Sahara&anzeige=60075929

Algeria: Junior expert "Water management" – GTZ

The programme's main aim is to help improve the competencies of water sector institutions (water ministry, regional authorities...) in integrated water resources management. You will support the programme head in advising and accompanying the process in the relevant institutions, as well as reinforce the conception and implementation of new regulating mechanisms.

!!! Full job description:

http://www.gtz.de/de/karriere/juniorpositionen/detail_juniorpositionen.asp?gebiet=&anzeige=60070852

Burundi: Junior expert "Strategic advice to the water ministry" - GTZ

The competencies of water sector institutions (national, regional und communal) for the sustainable management of urban and rural water and sanitation supplies should be improved.

You will support the programme coordination in advising and accompanying the process in relevant sector institutions and in the reorganisation of the water sector.

!!! Full job description:

http://www.gtz.de/de/karriere/stellenmarkt/detail_regionen.asp?region=Afrika+s%FCdlich+der+Sahara&anzeige=60076055

Ethiopia: Visiting professor in "Urban Design and Development"

The newly established department of Urban and Regional Planning of the Addis Ababa University, Ethiopia, Faculty of Technology is offering a visiting professor position in Urban Design and Development for initially three years.

!!! Full job description:

http://www.daad.de/imperia/md/content/de/ausland/formulare/dozenten/ecbp-ausschreibung/urban_desing.pdf

!!! Contact: wnabraham@yahoo.com

News from the pilot projects ...

... German cooperation

India: ecosan at the 39th IWWA Convention in Mumbai

GTZ ecosan, Germany and the Ecosan Services Foundation, ESF, displayed a joint stand at the 39th IWWA Convention in Mumbai on February 1st to 3rd, conducted by the Indian Water Works Association. The IWWA has 6000 members and 26 local centres in India. The IWWA convention is the annual meeting of specialists in the field of water and sanitation in India. The ecosan information stand received an extremely positive response. The workshop on ecosan during the convention was attended by more than 80 people. After an introduction lecture, case studies from ecosan pilot projects in Bangladesh, Badlapur (India) and Pandharpur were presented.

!!! Information: <http://www.iwwa.info>, <http://www.ecosanservices.org/>

!!! Contact: D. Panse dbp40@rediffmail.com, johannes.heeb@seecon.ch

India: ecosan training programme launched

During the 39th IWWA Convention in Mumbai, a group of national and international organisations officially launched the ecosan training program Capacity Building for Ecosan in India 2007-2009. A series of training courses will be run in the framework of a public-private partnership programme between gtz-ecosan and Seecon Switzerland. The first batch of 25 participants has gone through the first 2 weeks of the training course in April. They are now working on their individual ecosan cases and will present and discuss them in the third training course week in June this year. The next training course will run in autumn this year. Detailed information you will find at chapter "training and courses".

We encourage you to adapt the course to your own countries and projects. To support the global capacity building for ecosan, all course materials are available following the open-source concept for capacity building and training.

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

!!! Downloads:

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-training-courses-india-2007.pdf>
<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ecosan-training-course-plan-india-2007.pdf>

!!! Contact: johannes.heeb@seecon.ch, christine.werner@gtz.de

Ecuador: ecosan network created

The First Ecological Sanitation Meeting of Ecuador took place in the city of Cuenca on March this year. It was sponsored by CARE-Ecuador, ETAPA, USAID, WSP and ECOSANLAC. Around forty people from 23 organizations discussed ecosan projects and their perspectives during two days. At the end of the event the Ecosan – Ecuador Network was created and the necessary actions to increase the number of ecosan projects in Ecuador and raise public awareness were started.

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

!!! Downloads:

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/es-ecosan-agenda-ecuador-network-2007.pdf>
<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/es-presentacion-composteros-ecoturismo-2007.pdf>

!!! Contact: Jenny Aragundy: jaragundy@ecosanlac.org

Kenya: EU-GTZ ecosan promotion project starts

In November 2006 the EU-GTZ project "ecosan – an integrated approach for increased sanitation and market development" began in Kenya. The project obtained co-financing within the framework of the EU Water Facility. Important project partners include the Kenyan Ministry of Agriculture, the Ministry of Health, The Ministry for Water, SIDA (Swedish International Development Cooperation Agency), and the WWF (World Wide Fund for Nature, Kenya). The project places ecosan firmly within the framework of the reuse of agricultural (organic) waste and has 4 main areas of interventions: (1) creating a favourable and enabling environment for ecosan at an institutional level; (2) establishing financing instruments and mechanisms; (3) marketing end products; (4) implementing the developed concept on a large scale.

4 main types of demonstration units are currently planned for the project:

- (1) Dry public toilets (no flush), connected to a biogas digester with a solidification unit for the digester sludge and a constructed wetland for the remaining wastewater. The public toilet will also include hand washing facilities, and should be able to be extended to include shower facilities if required.
- (2) School sanitation facilities – these will employ different technological components, according to local requirements, such as rain water collection and use, grey water treatment and use, UDDTs, low-flush toilets, etc.
- (3) ecosan systems for single households, possibly combined with (4)
- (4) ecosan systems in the area of agro-business, for example in abattoirs or farms.

A particular focus in the project development is placed on a close cooperation with the local end users and responsible institutions or authorities, to ensure their needs have been correctly addressed and increase the likelihood of long-term acceptance. This should also provide an impetus for the dissemination of ecosan concepts. For all demonstration types, plot locales have been agreed and planned where construction will occur in the next 3 years.

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

**News from the
pilot projects**

**- other
cooperations**

India: ecosan training for masons in Bihar-State

Volunteers of the Indian NGO SCOPE have conducted training on constructing UDDT toilets for ecosan systems for local masons and women's self-help groups in a Bihar village on the banks of the Ganges River. The Bihar government has proposed to extend this concept throughout the state and has planned the construction of two ecosan model villages in the state, each with 25 toilets, to prove the efficacy of ecosan toilets in areas with a high-water table.

!!! **Download full article (in: The Hindu, 02 March 07):**

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-the-hindu-pressnote-scope-2007.pdf>

!!! **Information:** <http://www.scopetrichy.org/>

India: ecosan approach applied in India's Total Sanitation campaign

Thirty houses in Mosrahalla village in Karnataka's Mysore district have been using urine diverting dehydration toilets (UDDTs) - locally called dry toilets - for a period of one year. "This is a water-scarce area and installing dry toilets was the only way out," says S. Vishwanath, who was part of an advisory team to India's TSC (Total Sanitation Campaign).

UDDTs work on the principle of source separation of urine and faeces which are in Mosrahalla collected in separate containers. In this village project urine is removed every three days and faecal matter once in six months. "People are comfortable managing their waste. One year into the project it is functioning fine," says Vishwanath. "The next step is to utilise this waste in the fields. Tying together ecological sanitation and field fertiliser use will ensure non-pollution of water sources and sustainable solutions to the management of human waste."

The UDDT is situated above ground, consumes little water, eliminates the need of underground pipes and therefore enables the users to repair it. "In places with a high water table such as coastal and riverside areas, it is imperative to use dry toilets because a soak pit is unviable. But that doesn't mean we have to restrict use to these areas. In dry regions, these can be deployed because they use little water," says A K Singh, CEO, Sulabh International Social Service Organisation.

In 1981, it was reckoned that only 1 per cent of India's rural population had sanitation facilities. In 1986, the first structured programme for rural sanitation - the Central Rural Sanitation Programme - was launched. The new Total Sanitation Campaign was initiated to make the scheme demand-driven and people-centred. An article entitled "Unrealistic approach killing rural sanitation programme" in CSE's "Down to earth" Magazine gives a critical review on the TSC activities. The project admittedly achieved remarkable successes, however the wrong systems, that cannot be kept in good condition by the inhabitants, would waste waters and often lead to more pollution. It states that reasonable success has been achieved in the project but that the battle is far from over. It highlights the above mentioned project from Mosrahalla village as a good example and option that could work for many other villages in India.

!!! **Information:** <http://www.downtoearth.org.in>

!!! Download:

http://www.downtoearth.org.in/full6.asp?foldername=20070415&filename=news&sid=25&page=1&sec_id50
http://www.downtoearth.org.in/full6.asp?foldername=20070415&filename=news&sid=25&page=2&sec_id50

!!! Contact: cse@cseindia.org

Burkina Faso: Film festival and ecosan

An ecosan-campaign was launched during the African Film festival FESPACO in Ouagadougou in the last week of February, as CREPA headquarters (Regional Centre for Low Cost Water and Sanitation) installed 6 mobile urine diverting toilets, 6 urinals for women and 9 urinals for men. 9 people were recruited to take care of the maintenance, which covered changing buckets, changing jerry-cans and assuring water supply for washers and for hand-washing.

In cooperation with the ministry of the environment, 50 young people from local environmental groups had a one-day course including information on ecological sanitation and were then positioned on the different sites to inform people on environmental issues and on ecological sanitation (the ecosan concept and how to use the installations).

15,000 visits to the toilets/urinals were recorded during these 9 days. Some photos of the event have been made available online. As further steps, CREPA is currently preparing for the further treatment (e.g. through Vermi-composting) of the collected faecal material, and it is planned to turn these services into a business.

!!! Download:

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-photo-movable-uddt-burkina-filmfestival-2007.pdf>

!!! Contact: Linus Dagerskog: linusdagerskog@yahoo.fr

Technology update

Chinese ash dispenser and Indian squatting pans for UDDTs

The gtz technical data sheets 1.A-2.B.5 provides an overview of urine diversion and dehydration toilets. Additional input is now available, as Aussie Austin has recently posted interesting pictures of an ash dispenser or ash flusher from China showing this device.

Another recent development comes from India, where an Indian Style Ecosan Squatting Pan that was designed by Shital Ceramics in Ahmedabad, Gujarat (India) with inputs from seecon International GmbH and International Ecological Engineering Society IEES, Switzerland, went into serial production in Mid-March. This squatting pan is a two-piece set, one unit is equipped with faeces drop hole and urine bowl in and the other one with a bowl for anal cleansing. The two-piece design allows easy transport and costs approximately Rs. 600 (approx. 11 Euro).

Indian style squatting pans from fibre reinforced plastics (FRP) are available from eco-solutions in Kerala, India.

!!! Download: technical data sheet on urine diverting dehydration toilets & photos:

<http://www.gtz.de/en/themen/umwelt-infrastruktur/wasser/9397.htm>

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-photo-ash-dispenser-austin-2007.pdf>

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-ceramic-ecosan-squatting-plattform-India-2007.pdf>

!!! Contact: Shital Sanitary Sales, Dipak Sompura shitalcera@rediffmail.com

!!! Information on FRP Indian style squatting pans:

<http://www.eco-solutions.org/ecopan.html>

Purinex-filter for precipitate free urine pipes

Schaum, C.; Schneider, N.; Cornel, P.; Berg, U. und Nüesch, R. (2007): Ein alter Weg wird neu beschriften: Phosphorgewinnung aus Urin - von der Destillation zum PURINEX-Filter. In: GWF-WASSER/ABWASSER 148, Nr. 2, Oldenbourg-Verlag, München, S. 148 – 153

The authors propose the integration of phosphorus separation filters (PURINEX-filters) in waterless urinals and urine diverting toilets in order to retain phosphorus at its source, and facilitate reuse. Unfortunately the nitrogen potential of the urine remains unused. However the use of phosphorus filters would prevent the spontaneous precipitation of magnesium ammonium phosphate and the encrustation of pipes channelling urine e.g. in vacuum systems.

!!! Contact: p.cornel@iwar.tu-darmstadt.de

Publications

"Global Change - Enough Water for All?"

José L. Lozán; Hartmut Graßl, Peter Hupfer, Lucas Menzel, Christian-D. Schönwiese (eds.) (2007): "GLOBAL CHANGE: Enough Water for all? " 384 pp. with 179 Figures, 64 Tables and 15 Charts.

The book provides a comprehensive and current overview of global water themes, with clear reference to topics such as agriculture, privatisation and sustainable sanitation concepts.

One chapter considers the topic "Ecological sanitation: Innovative sanitation systems for urban and peri-urban areas, high- and low-tech options with resources recovery." written by R. Otterpohl and M. Oldenburg. There are 500 free copies of this book available for institutions in developing countries.

!!! Information: <http://www.rrz.uni-hamburg.de/wasser>

Faecal attraction: CSE's new film on river pollution now available online

This film highlights the abysmal condition of rivers in India using the case study of the Yamuna tributary and can now be bought online. During the 32 minutes, the film does not refer to any solution, but it very much offers a way to approach an audience without a sanitation-related background and to trigger a discussion of the problems.

!!! Information: http://csestore.cse.org.in/store1.asp?sec_id=4&subsec_id=27

Rain water use fbr issue 6

fbr-Band 6: "Projektbeispiele zur Betriebs- und Regenwassernutzung; Öffentliche und gewerbliche Anlagen " (Project examples for service water and rainwater use; public and commercial installations)

In this new volume of the "Fachvereinigung Betriebs- und Regenwassernutzung e.V." more than 140 different examples from the public and the commercial sector are presented. In writing these volume operators, producers and planning offices were asked in the "fbr-Wasserspiegel" to hand in relevant technology concepts.

Price: € 25 (price does not include postage)

!!! Contact: verwaltung@fbr.de

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

Environmental history of water: global views on community water supply and sanitation

Juuti, P.; Katko, T. and Vuorinen, H. (eds) (2007). Environmental history of water: global views on community water supply and sanitation. London, UK, IWA Publishing. – 640 p. - ISBN: 1843391104

The book emphasises that the history of water and sanitation services is strongly linked to current water management and policy issues, as well as future trends. The book consists of local case studies from all inhabited continents. The key themes of the book include population growth, health, water consumption, technological choices and governance. Lessons learned from earlier societies help to understand the present crisis and challenges. Altogether 34 authors, from disciplines as history of technology, history of public health, public policy, development studies, sociology, engineering and management sciences have written the 30 chapters of this book.

Price: € 157.50 (IWA members € 118.13)

!!! Information: <http://www.iwapublishing.com/template.cfm?name=isbn1843391104>

Publications

... on the web

Logistic aspects of ecosan in urban areas – MSc-Thesis

Marieke Slob (2005): Logistic Aspects of ecological sanitation in urban areas. Case Study in Low-Income Community in Delhi, India. MSc-Thesis at University of Twente, in cooperation with WASTE.

The research question in this study was “what is an effective and efficient system to transport excreta from households to central treatment locations in a low-income area (Saboli) in Delhi, India?” The study suggests that for urine collection a tractor trolley combination equipped with a pump is the most effective and efficient system for large-scale collection in the given context. For faeces collection, the use of a household double vault system and collection with a simple tricycle is advised. The collectors are in favour of the suggested systems as the working conditions are predicted to be much better than the manual scavenging done before. The farmers see potential in urine and faeces as fertilizer and want to experiment with it. The users easily relate to the production and reuse of dried faeces, but cannot easily relate to urine as fertilizer. Advice is also given on how initial investments for a limited participation level of 100 households can be kept small.

!!! Download: <http://www2.gtz.de/dokumente/bib/06-1322.pdf>

Toilets that make compost - from Peter Morgan

Morgan, P. (2007): Toilets That Make Compost: Low-cost, sanitary toilets that produce valuable compost for crops in an African context. Swedish Environmental Institute, EcoSanRes Programme, ISBN 978-9-197-60222-8.

This book provides practical information which allows those living in rural, peri-urban and even in some urban areas of Africa, to build and practice the art of recycling nutrients from their own excreta in order to gain better crops and vegetables in their backyards and gardens.

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

A closer look at urine separation - EAWAG

Eawag (2007): Mix or NoMix? A Closer Look at Urine Source Separation. EAWAG News 63e, March 2007.

The latest “Eawag News” publication covers the topic “Mix or NoMix?” with a wide range of articles on urine treatment, the research project at the public library in Basel-Land, and the question of whether NoMix can help to prevent environmental problems caused by medicines.

!!! Download:

http://www.eawag.ch/services/publikationen/eanews/news_63/index_EN
http://www.eawag.ch/services/publikationen/eanews/news_63/index

Excreta disposal for emergency situations- WEDC

Harvey, P., Bastable, A., Ferron, S., Forster, T., Hoque, E., Morris, L., Piano, E., and Smith, M. (2007) Excreta Disposal in Emergencies: A Field Manual, WEDC, Loughborough University.

A new publication on excreta disposal under emergency situations from WEDC refers to ecosan. In the context of this book cases, ecosan is misunderstood as a name for urine diversion toilets, and not described as a holistic approach to reuse oriented sanitation systems.

!!! Download: http://wedc.lboro.ac.uk/projects/new_projects3.php?id=152

Options for urban sanitation and urban agriculture in Ghana and Lima - MSc Thesis

N.K. De Silva (2007): Multi-criteria analysis of options for urban sanitation and urban agriculture -Case study in Accra (Ghana) and in Lima (Peru). MSc Thesis MWI 2007-01, UNESCO-IHE Delft, April 2007.

The objective of this study was to find out the most suitable sanitation system for urban and peri-urban areas (considering urban agriculture) by using a multi-criteria analysis for comparing various alternatives. The case study was carried out for urban and peri-urban areas in Accra (Ghana) and in Lima (Peru) with the main focus being on the Accra Metropolitan Assembly. The common constraints identified for achieving the MDG targets are financial shortage (for users and government), lack of technology, lack of political will, and insufficient land. Ecosan approaches could play a major role in achieving other MDG targets at lower costs than conventional sanitation systems. Main recommendations from this thesis include carrying out conceptual design with more specific detail for every part of the sanitation components, cost estimation with accurate quantities and expenditures especially for the toilet itself and urine storage, and designing and cost estimation for greywater management systems.

!!! Download:

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-kalyani-ihe-thesis-2007.pdf>

Urine diversion in cold climates – WECF

Richert Stintzing, A. et al. (2007): Urine diversion in climates with cold winters. Technical, agricultural and hygienic considerations. WECF, upcoming.

A new WECF publication on ecological sanitation: "Urine Diversion in Climates with Cold Winters, Technical, agricultural and hygienic considerations", will be available on the website of WECF in the beginning of June 2007. This report contains information on aspects of dry urine diverting toilet systems related to temperate continental climates where large temperature differences between summer and winter are an issue, with a focus on the hygienic aspects of reuse of nutrients. A summary of EU directives relevant to the topic of this report to be implemented by the member states is given. The main author is Anna Richert Stintzing, VERNA Ecology Inc.. Many other authors and persons have contributed to the publication with their knowledge and with examples of dry urine diversion systems in Sweden and abroad.

!!! Download: <http://www.wecf.eu/cms/publications/index.php>

Sustainable development for all – WECF

Gabizon, S.; Samwell, M.; Jacobs, I. (2006): Sustainable Development for All. Reducing effects of polluted drinking water and inadequate sanitation on children's health in rural Romania. WECF, Utrecht/Munich.

This publication reports on the MATRA pilot projects "Safe Drinking Water", funded by the Dutch Ministry of Foreign Affairs, and the follow up project Rural Development for All, supported by the French Foundation Ensemble and carried out in the Romanian village Garla Mare. Described are the implementation, results and impact of these projects and the continuing developments and activities in the village Garla Mare, which covers a time frame of 5 years.

!!! Download: http://www.wecf.eu/cms/publications/2006/sustain_all.php

!!! Contact: margriet.samwel@wecf.eu

From pit latrines and ecosan in Romania - WECF

Samwel, M.; Gabizon, S.; Wolters, A.; Wolters, M. (2006): From pit latrine to ecological toilet - Results of a survey on dry urine diverting school toilets and pit latrines in Garla Mare, Romania, Experiences and Acceptances. WECF, Utrecht/Munich.

This publication presents the findings of a user survey in Garla Mare, Romania, where urine diverting dehydration toilets were built at a primary school.

!!! Download: http://www.wecf.de/cms/publications/2006/ecosan_pitlatrines.php

!!! Contact: margriet.samwel@wecf.eu

Trainings and courses

Netherlands: UNESCO-IHE ecosan short course 09th – 27th July 2007

Organisation: UNESCO IHE

The aim of this course on Decentralised Water Supply and Sanitation (DWSS) is to provide a theoretical background and practical expertise for low-cost decentralised water supply and sanitation options specifically suitable for small towns, peri-urban areas and urban slums. It is intended for professionals working in management, engineering, decision making and education in the field of decentralised water supply and sanitation in developing countries or countries in transition. Participants from government bodies (local administrations, national agencies), non-governmental organisations, universities and the private sector are expected.

The course deals with and integrates three important aspects of DWSS namely water supply systems, sanitation systems and management aspects. It covers different approaches and technologies for water supply (water sources, wells and pumps, rainwater harvesting, POU treatment system) and sanitation (ecological sanitation, MDGs, treatment aspects for excreta and greywater, safe reuse of ecosan products, faecal sludge management and low-cost drainage and sewerage). The fee is 2,040 Euro (excluding accommodation, living expenses and insurance).

The deadline for applications for scholarships from Nuffic has now passed. Nonetheless, those who have their own funding can register for the course until 9 June 2007.

!!! Information:

<http://www.unesco-ihe.org/vmp/articles/Short-Courses/SHO-DWSS.html>

!!! Contact: e.vonmunch@unesco-ihe.org

India: Next ESF ecosan-training starts September 3rd 2007 3rd – 14th September 2007

Organisation: Ecosan Services Foundation in collaboration with Seecon and GTZ

Ecosan Services Foundation (ESF) now offers an improved and full-fledged training course in ecological sanitation in India. The ecosan training course follows a participatory cross-institutional and interdisciplinary approach.

Participants gain thorough theoretical and practical knowledge in the field of ecosan. The course consists of two one-week modules, which will enable course participants to plan and implement their own ecological sanitation projects. Training includes lectures given by international ecosan experts, group works, role plays, case studies and a field trip to ecosan projects.

The next ecosan training course in India will be held from **3rd to 14th September 2007**. The course will be offered at a reduced price of Rs.7000 if the participant is registering before August 15th 2007. The fee covers full boarding, accommodation, field trips, all tuition costs as well as handouts and materials for the course. Discounts for university students are available.

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

!!! Download:

<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-ecosan-course-programme-2007.pdf>
<http://www2.gtz.de/dokumente/oe44/ecosan/nl/en-ecosan-course-info-2007.pdf>

!!! Contact: ecosanindia@gmail.com

Netherlands: Next UNESCO-IHE online ecosan course September 2007

Organisation: UNESCO IHE

Twenty-five participants from all over the world came together in the virtual I-Learning Environment, which was created by UNESCO-IHE from March to 21 June 2007, for this online ecosan course, the first of its kind. The participants came from Nigeria, Rwanda, Zambia, Ethiopia, Philippines, Sri Lanka, Bangladesh, Bhutan, Indonesia, Brazil, Peru, Australia, Germany, Italy, Spain, UK, Portugal, Bulgaria and the Netherlands. The course fee was Euro 550 with scholarships made available from SEI and UNESCO-IHE.

The subjects covered were: an introduction to ecosan; transfer and treatment of excreta and Greywater; agricultural reuse; water demand management measures; rainwater harvesting; and some non-technical aspects. This was a part-time course, which is challenging as the participants also had jobs and private lives! The most important aspect of the course, are the (asynchronous) discussions between participants and the course coordinator or guest lecturers. Another aspect that made the course special is to have such a wide geographical spread of participants, their current roles and their past experience in ecosan, ranging from none to extensive, which enriched discussions.

The next online ecosan course will run from **3 September to 21 December 2007** in the same format. To see what this online ecosan course looks like, visit <http://www.lms.ihe.nl> and use the login: ecosandemo and password: 1234.

!!! Information: <http://www.unesco-ihe.org/education/illearning.htm>

!!! Contact: e.vonmunch@unesco-ihe.org

Europe: Joint European Master in Environmental Studies (JEMES) October 2007

Organiser: TUHH in Germany, Universidad Autònoma de Barcelona in Spain, Universidade de Aveiro in Portugal and Aalborg Universitet in Denmark

Starting in October 2007 the universities TUHH in Germany, Universidad Autònoma de Barcelona in Spain, Universidade de Aveiro in Portugal and Aalborg Universitet in Denmark are offering a joint Master programme on environmental studies. The new study course is part of the ERASMUS MUNDUS programme and students are required to study in at least two of the four universities. The MSc-programme includes the technological and managerial perspective of environmental studies, also dealing with chemical, physical and biological changes in the environment and the behaviour of air, water and soil as they are affected by anthropogenic activities.

At TUHH ecological sanitation will be a topic in the study curriculum, alongside treatment technologies for water, liquid and solid waste, soil and sediments; modelling of coastal and river morphology; assessment and prediction of pollutants behaviour; and bio-engineering.

!!! Deadline for application: 31 May 2007

(Deadline for applicants eligible for grants from ERASMUS MUNDUS has expired on 31 January)

!!! Information: http://www.tuhh.de/eciu-gs/pro_joint_jemes.html

!!! Contact: Study@tuhh.de; jemes.icta@uab.cat; jemes@plan.aau.dk; gri@ua.pt

Events

New

France: Anaerobic digestion in mountain areas and isolated rural zones

05th – 07th June 2007, Chambéry

Organisation: IWA, Université de Savoie

Topics of the conference include: Small treatment Anaerobic Digestion (AD) plants (less than 1000 kg COD/d); AD technologies for municipal, agricultural and craft industries wastewater, and solid waste treatment's; pre-, co- and post-treatment of AD; biogas valorisation; economic aspects.

!!! Information: <http://www.locie.univ-savoie.fr>

!!! Contact: rene.moletta@univ-savoie.fr

Singapore: Sustainable Energy Week

12th – 15th June 2007, Singapore

Organisation: Greenpower conferences

Asia's leading Renewable Energy Finance event will bring together international renewable energy experts to identify financing trends, and examine successful case studies, deals, structures and solutions needed to stimulate industry growth. On June 12 and 13 there will be the Biofuels Markets Asia and Renewable Energy Finance, while on June 14 and 15 the Carbon Markets Asia and the Biogas Markets Asia will take place.

!!! Information:

http://www.greenpowerconferences.com/renewablesmarkets/ref_singapore07.html

!!! Contact: annie.ellis@greenpowerconferences.com

Canada: Biosolids 2007

24th – 27th June 2007, Moncton, New Brunswick

Organisation: IWA, University of Moncton

History has shown that the best science in the world is not sufficient if the general public lacks confidence in the science; so we will be presenting conference "streams" dealing with the management and public relations side of biosolids/sludge.

Among the conference topics the following ones may be of interest to the ecosan-community: Sludge as a resource (phosphorus recovery, etc.) and value-added processes; Odour Control; State of biosolids/sludge management and trends in various parts of the world.

!!! Information: <http://www.iwabiosolidsmoncton2007.ca>

!!! Contact: gmscp@nbnet.nb.ca

**Germany: Stuttgarter Wissenschaften – Solutions for one world
3rd July 2007, Stuttgart**

Organisation: Universität Hohenheim (Tropical centre), LHS Stuttgart, Deutsche Gesellschaft für Technische Zusammenarbeit (gtz)

The aim of this event is to identify and define the synergies between science and development cooperation in the fields of “Energy, Environment, Mobility, Migration, Food and Water”. It should provide impetus for further reflection on these topics and help discover new potential. Additionally, a forum for network building will be established.

!!! Information: <http://www.troz.uni-hohenheim.de/events>

**Germany: Planning the Urban Environment
05th – 10th August 2007, Berlin**

Organisation: TU Berlin

In session 3 of this conference, alternative sanitation and appropriate water treatment technologies will be discussed. Decentralized split-stream systems (i.e. for the separation of yellow, grey and black water) are of particular interest for emerging mega-cities. Apart from the installation of new infrastructure, the management of leaking pipes and sewers is of importance for public health and the entire urban environment.

!!! Information: <http://www.urbenvironcongress.tu-berlin.de/>

!!! Contact: urbcongress@tu-berlin.de

**Sweden: World Water Week
12th – 18th August 2007, Stockholm**

Organiser: Stockholm International Water Institute (SIWI)

The overall theme of this year's World Water Week is Progress and Prospects on Water: Striving for Sustainability in a Changing World. At this year's World Water Week a high number of sanitation related events will take place. Some of these are given below:

August 12th: **Sanitation and hygiene: Approaches for sustainable development**
afternoon seminar, convenors: WSSCC and WHO

Economics of sanitation: Why invest, and why now?
side event, convenors: Asian Development Bank (ADB)

August 13th: **Ensuring local government finance for water and sanitation**
side event, convenor: WaterAid

August 14th: **Integrated slum upgrading: Meeting the water and sanitation needs of the poorest of the poor**
morning seminar, convenors: UN-HABITAT, Asian Development Bank (ADB)
Smart water web: Information technology and water experts join forces,
lunch side event, convenors: Netherlands Water Partnership, UNESCO-IHE,
IRC International Water and Sanitation Centre, Green Ocean and The Energy
Age Consortium

**Water and sanitation sector information and monitoring systems (SIMS)
in African countries**

lunch side event, convenors: WSP and African Water Facility (AWF)

Practical approaches to pro-poor water and sanitation governance
afternoon seminar, convenors: UN-HABITAT, UNDP Water Governance
Facility (SIWI)

**European member states' harmonised approach to water and sanitation
research - helping to alleviate poverty and promote sustainable
development**

side event, convenor: EUWI-ERA-NET Consortium

August 15th: **The UN-Water seminar: Preparing a final action plan for the International Year of Sanitation (IYS) 2008**

morning seminar, convenors: UNSGAB and UN-Water

Water for sustainable economic development - making water high on the agenda in Davos and the G8 Summit 2008 in Japan

lunch side event, convenors: Asia Pacific Water Forum (APWF), WEF, GWP

Sanitation 21 – let's do planning and design better

afternoon seminar, convenors: IWA, SEI, SWH

August 16th: **The Killing Fields of sanitation - political neglect**

afternoon seminar, convenors: SIDA, SIWI, SEI, WSSCC

Trend-related monitoring and evaluation on water supply and sanitation

afternoon seminar, convenors: SIWI, BMZ

!!! Information:

http://www.worldwaterweek.org/Downloads/2nd_announcement_07_web.pdf

!!! Contact: sympos@siwi.org

**Hawaii: 2nd IASTED Int. Conf. on Water Resources Management
20th – 22nd August 2007, Honolulu**

Organisation: International Association of Science and Technology for Development (IASTED)

Themes include:

- water supply and sustainable use (incl. reuse, solar water disinfection and low-tech filtration)
- wastewater and storm-water management (incl. constructed wetlands, domestic and industrial wastewater treatment, wastewater reuse)
- issues in implementing environmentally sound technologies (incl. socio-economic and cultural issues, legal issues, training and education financial issues)

!!! Information: <http://www.iasted.org/conferences/home-578.html>

!!! Contact: calgary@iasted.org

**Australia: 11th World Congress on Anaerobic Digestion
23rd – 27th September 2007, Brisbane**

Organisation: IWA, AWA, University of Queensland

The general theme of the congress is bio-energy for our future – renewable energy from waste. Topics include:

- Recovery of energy from waste materials, either as methane, hydrogen or directly as current in microbial fuel cells
- Anaerobic biodegradation of recalcitrant chemicals, e.g. in bioremediation
- Nutrient recovery issues related to anaerobic processes;
- instrumentation, control and automation of AD processes

!!! Information: <http://www.awmc.uq.edu.au/ad11/>

!!! Contact: ad11@eventsolutions.com.au

Germany: **Tropentag 2007**
09th – 11th October 2007, Witzenhausen

Organisation: University of Kassel-Witzenhausen and Göttingen

This year's theme of the Tropentag is "Utilisation of diversity in land use systems: Sustainable and organic approaches to meet human needs".

!!! **Information :** <http://www.tropentag.de>

!!! **Contact:** info@tropentag.de

India: **World Toilet Summit 2007**
31st October – 3rd November 2007, New Delhi

Organiser: Sulabh International Social Service Organization and WTO

The World Toilet Summit 2007 will incorporate the International Toilet Conference & Expo 2007. News on the programme shall appear soon on the website given below.

!!! **Information:** <http://www.worldtoiletsummit2007.org>

!!! **Contact:** info@worldtoiletsummit2007.org

Global: **World Toilet Day**
November 19th 2007

Organisers: various

The World Toilet Day was launched by the WTO (World Toilet Organisation). Various sanitation related events are planned for this day around the world. The purpose of having this day is to have people in all countries take action, increasing awareness of the toilet user's right to a better toilet environment, and to lobby for increased access to toilets and sanitation for all.

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

Colombia: **Latin America Regional Sanitation Conference (LatinoSan)**
12nd – 16th November 2007, Cali

Organisation: Water and Sanitation Program - Latin America and the Caribbean (WSP-LAC), Colombian Vice Ministry of Water and Sanitation, CINARA (Colombia) and UNICEF

This conference is one of a series of regional sanitation conferences in support of the 2008 International Year of Sanitation. The objectives are to accelerate the progress of sanitation and hygiene in Latin America, to raise the profile of sanitation, health and hygiene, to generate political commitment, to facilitate a regional policy and strategy, to strengthen leadership and advocacy for improvements in the region and sharing field experiences and lessons learned.

!!! **Download:** (Spanish)

<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/es-folleto-latinosan-2008.pdf>

!!! **Information:** http://www.wsp.org/filez/newsletter/3302007122620_Access40.pdf

!!! **Contact:** wspandean@worldbank.org

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

Organisation: ECOSANLAC – Saneamiento Ecológico en Latinoamérica y Caribe, Federal University of Ceará, UFC, IWA specialist group on reuse-oriented sanitation

The International Conference on Sustainable Sanitation is being organized to increase the communication and exchange between practitioners and researchers. In particular, the conference intends to provide a forum for Latin American representatives to share their experiences, while providing direct exposure to the state-of-the-art in other regions of the world.

!!! Information:

<http://www.ecosanlac.org/ecosanlac/default2.php?siteid=html/page58.php>

!!! Deadline for abstracts: 15. June 2007

!!! Contact: info-fortaleza2007@ecosanlac.org

Global: Launching of IYS 2008 activities by the UN
November 2007

Organiser: UN-DESA

The UN plans to launch the IYS 2008 in November 2007. It is expected that the global launching will take place at the UN Headquarters. The regional launching will be at the UN Regional commissions which will also launch the IYS at country level. Various events will take place during November.

!!! Information: <http://www.un.org/esa/sustdev/sdissues/sanitation/iys.htm>

China: East Asian Ministerial Sanitation Conference (EaSan)
November 2007, Beijing

Organisation: World Bank - WSP

In the framework of World Bank - WSPs “Regional Knowledge Products – Sanitation Advocacy”, the WSP-EAP countries and the other poorer nations in the region have identified common challenges which must be tackled at national level, alongside a strategic regional program to enhance and support the national efforts to achieve the sanitation MDG. Specific activities in this framework include the Ministerial Conference in Beijing.

!!! More Information:

http://www.wsp.org/filez/activity/1312007124828_RegionalKnowledgeProductsSanitationAdvocacy.pdf

South-Africa: African Ministerial Sanitation Conference (AfricaSan)
18th – 20th February 2008, Durban

Organisation: World Bank - WSP

WSP-Africa has been working on the conceptualization of a sanitation marketing approach for a better understanding of sanitation services demand, and established the basis for sanitation networking by holding a continental conference (AfricaSan) in 2002. The marketing framework includes the regulation of transport and waste disposal, including ecosan. In 2008, there will be an AfricaSan +5 conference to keep the momentum alive.

!!! Information:

http://www.wsp.org/filez/activity/1312007112430_KnowledgeDevelopmentinSanitationinAfrica.pdf

Benin **14th African Water Association Congress**
25th – 29th February 2008, Cotonou

Organiser: AfWA

The theme of the conference is “Partnerships and good governance for achieving the MDGs in the water and sanitation sector in Africa”. Its declared objectives are to share experiences, promote cooperation, influence decision makers and maintain African water issues in the international agenda. 34 discussion topics are grouped under four technical sessions which cover a wide range of institutional, financial, technical and environmental aspects of water and sanitation management.

!!! **Information:** <http://www.uade.org/angl/index.asp>

!!! **Downloads:** http://www.uade.org/angl/Call_for_papers14eme.pdf

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

Organisation: WEDC

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

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

!!! **Deadline:** 1st September 2007

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

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

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

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

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

!!! **Contact:** IOBB2008@gmail.com

Events Reminder **Singapore:** **4th IWA Leading Edge Conference & Exhibition on Water and Wastewater Technologies**
3rd – 6th June 2007

Organisation: IWA

The annual Leading-Edge Conference on Water and Wastewater Technologies is focused specifically on advances and developments in water and wastewater technologies. To keep the programme targeted and discussions meaningful, the conference consists of a single plenary session of invited speakers on the first day, followed by two parallel sessions (one for drinking water and one for wastewater) on days two and three. The conference will consist of invited speakers who are leaders in the fields of water and wastewater, as well as those having voluntarily submitted proposals. Several workshops will also be held on the afternoons of the first and second day.

!!! Information: <http://www.iwa-let2007.com.sg/>

!!! Contact: info@iwa-let2007.com.sg

UK: Energy 2007
20th – 22nd June 2007, The New Forest

Organiser: Wessex Institute of Technology

This International Conference aims at bringing together researchers and practitioners from academia, industry and government interested in current developments in energy systems, and will include topics related to Sustainability in Energy Production, Energy Storage and Distribution and Energy Management.

!!! Information: <http://www.wessex.ac.uk/conferences/2007/energy07/>

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

France: NOVATECH 2007 - 6th international conference on sustainable techniques and strategies in urban water management
25th – 28th June 2007, Lyon

Organisation: IWA

Sustainable solutions to urban water management in wet weather cover a broader field than just drainage and drainage professionals. That is why the 6th Novatech conference will deal with three complementary dimensions of urban water management during wet weather:

- Integrated approaches to urban planning;
- Innovative technologies;
- Integrated approaches to the protection and enhancement of receiving water bodies.

A detailed programme of the sessions can be found on the homepage given below:

!!! Information: http://www.novatech.graie.org/a_index.htm

!!! Contact: novatech@graie.org

Malta: 4th International Conference on the Impact of Environmental Factors on Health
27th – 29th June 2007, Malta

Organiser: Wessex Institute of Technology

The conference aims to provide a forum for the dissemination and exchange of information on the diverse aspects of the impact of environmental factors on health across different disciplines. Topics include: Risk analysis, Water quality issues, Food contamination, Housing and health, Education and training.

!!! Information: <http://www.wessex.ac.uk/conferences/2007/health07/index.html>

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

South-Africa: SUSTAIN
15th – 17th August 2007, Gauteng

This conference – a business-orientated exhibition – sets out to present an overview of business solutions and scientifically based technologies that can be employed to reduce the impact of twenty first century man on the planet's resources. SUSTAIN will have four development components: water, energy, earth and air. Companies are encouraged to dis-

play their technologies, products and services that contribute to protecting the environment while reducing energy consumption and supporting sustainable economic development.

!!! **Information:** <http://www.sustainex.co.za/>

!!! **Contact:** Zia Tomes: ziat@exhibitafrica.co.za

China: Sustainable Cities and Villages
27th – 31st August 2007, Dongshen/Erdos

Organisation: Municipal Government of Erdos, Stockholm Environmental Inst. (SEI)
Project implementers, practitioners and researchers within the areas of urban and rural ecological and sustainable sanitation, organic waste management and agricultural reuse are invited to share experiences and best practices at this conference in Dongshen/Erdos, China. The conference will also showcase the new Erdos ecotown.

!!! **Information:** <http://www.ecosanres.org/icss>
<http://www.ecosanres.org/dongsheng2007.htm>

!!! **Contact** [Chinese]: sunfuli@acef.com.cn

!!! **Contact** [English]: dongsheng2007@ecosanres.org

Portugal: ECOSUD 2007
05th – 07th September 2007, Coimbra

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

France: New directions in urban water management
12th – 14th September 2007, Paris

Organiser: UNESCO-IHP

UNESCO's International Hydrological Programme is approaching the end of its Sixth Phase of IHP (2202-2007) and an end-of-phase Symposium related to Urban Water Management activities will be held on 12-14 September 2007 at UNESCO Headquarters, Paris.

This event will be an occasion for bringing together leading international urban water management experts to discuss new concepts, approaches and technologies for dealing with urban water problems. There will also be the opportunity to learn about IHP-VI urban water management projects results and outputs.

Symposium topics include: Processes and interactions in the urban water cycle, Integrated urban water system interactions: complementarities among urban water services, Urban water security, human health and disaster prevention, Socio-economic and institutional as-

pects in urban water management, Urban water education, training and technology transfer.

!!! **Download:** First announcement and call for abstracts/papers for the Symposium.
<http://www2.gtz.de/Dokumente/oe44/ecosan/nl/en-unesco-urban-water-management-flyer-2006.pdf>

!!! **Download:** UNESCO-GTZ Publication "Capacity Building for eco. San."
<http://www.gtz.de/de/dokumente/en-ecosan-capacity-building-2006.pdf>

!!! **Contact:** SymposiumUWM2007@unesco.org

Germany: **International Symposium 2007: Water Supply and Sanitation for All**

27th – 28th September 2007, Berching

The proposed conference themes are:

- The conceptual and enabling framework
- From purification to recovery
- Central versus decentral: contradiction or complement?
- From discharge to reuse

!!! **Information:** <http://www.huber.de/hp1033/Symposium-2007.htm>

!!! **Contact:** Susanne.Lindner@huber.de

Italy: **Sardinia Symposium 2007**

01st – 05th 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

Belgium: **6th IWA specialty conference on wastewater reclamation & reuse for sustainability**

09th – 12th October 2007, Antwerp

Organisation: International Water Association (IWA)

There will be three sessions dealing with a Rationale for sustainable water reuse, advances in water reclamation techniques, and Implementation and operation of water reuse schemes. Ecosan relevant topics may be:

- Economic benefits of water reuse (internalities or externalities)
- Sustainable cost recovery
- Health risks
- The role of decentralised water reuse systems
- Reclamation techniques for decentralised water reuse and more ...

!!! **Information:** <http://www.wrrs2007.org>

!!! **Contact:** info@wrrs2007.org

!!! **Download call for abstracts:**
<http://www.iwahq.org/uploads/events/2007/Reuse%20Call%20for%20papers.pdf>

Australia: 2nd IWA-ASPIRE Asia-Pacific Regional Group Conference and Exhibition
28th October – 01st 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/Content/NavigationMenu2/Education/NationalInterestEvents/ASPIRE2007/default.htm>

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

!!! Download the first announcement and call for abstract submittal:

<http://www.awa.asn.au/Content/NavigationMenu2/Education/NationalInterestEvents/ASPIRE2007/AspireCFALoRes.pdf>

India: 8th specialised conference on small water & wastewater systems & 2nd specialised conference on decentralized water & wastewater international network
06th – 09th February 2008, Coimbatore

Organisation: International Water Association (IWA), Centre for Water and Environmental Studies (CWES) of the Kumaraguru College of Technology, India and the Laboratory for Environmental Biotechnology (LBE) of the National Institute of Agronomic Research, France; supported by IWA, Indian Water Works Association (IWWA), French embassy, and the Indian NGO Siruthuli

Proposed topics of the conference include:

- Decentralised domestic and industrial wastewater collection and treatment systems
- Aerobic and anaerobic treatment
- Low technology treatment systems
- **Ecological sanitation**
- Wastewater reclamation and reuse
- Sludge management
- Nutrient removal

!!! Information: <http://www.kct.ac.in/small2008>

!!! Contact: small2008org@kct.ac.in

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

Organiser: Bureau International des Expositions (BIE)

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

Key themes include: water, a scarce resource; water for life; waterscapes; and, water, an element linking peoples.

The EXPO includes a Water Tribune based on the theme of 'Water and Sustainable Development', which will include: themed weeks consisting of sector seminars and meetings culminating in an international Conference on Water and Sustainable Develop-

ment; a forum for citizen participation; and parallel events by international bodies and associations.

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

!!! Contact: expo2008@vardagroup.org

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

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

Organisation: International Water Association (IWA)

At this stage the proposed topics of the conference are:

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

!!! Information:

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

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

Austria: World Water Congress and Exhibition
08th – 12th September 2008, Vienna

Organisation: International Water Association (IWA)

In 2006, almost 3000 delegates attended this important water event in Beijing. In 2008 the World Water Congress will be hosted in Vienna, coming back to Europe after 7 years.

!!! Information: <http://www.iwa-vienna2008.org/>

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

Organisation: CREPA, NETSSAF consortium

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

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

Turkey: 5th World Water Forum
March 2009, Istanbul

Organiser: World Water Council

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

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

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

!!! Information: <http://www.expo2010china.com/>

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

Links and Tips

Links on the GTZ ecosan-Homepage

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

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

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

We 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) and <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:

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**Mailing list /
Newsletter**

**- user
information**

How to use the ecosan mailing list

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

majordomo@mailserv.gtz.de

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

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

Useful mailing-list commands:

subscribe ecosan

Use this command to subscribe to the ecosan mailing list

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

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

unsubscribe ecosan

Use this command to cancel your subscription.

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

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

info ecosan

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

index ecosan

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

get ecosan <filename>

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

help

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

end

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

ecosan sector program

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