

Dear Readers,



Thanks to the valuable feedback many of you have provided on our survey carried out in October 2008 (announced in the 29th newsletter), we have now improved the layout of our newsletter.

Based on this feedback (from about 300 participants in the survey) we concluded that most of you wanted a shorter newsletter which has an easier to navigate structure.

We hope you enjoy our new newsletter layout and look forward to receiving your comments and suggestions, as well as news items for the next edition in April 2009 (please send these to: [ecosan@gtz.de](mailto:ecosan@gtz.de) by 31 March 2009).

Falls Sie unseren Rundbrief in Zukunft auf Deutsch erhalten möchten, schicken Sie uns bitte eine E-Mail an [ecosan@gtz.de](mailto:ecosan@gtz.de).

Si, à l'avenir, vous désirez recevoir la version française de notre bulletin d'information ecosan, merci de nous envoyer un email à l'adresse [ecosan@gtz.de](mailto:ecosan@gtz.de).

Si en el futuro desea recibir nuestro boletín electrónico, por favor envíenos un correo electrónico a [ecosan@gtz.de](mailto:ecosan@gtz.de).

As GTZ recently introduced a new newsletter tool, please note that you may also unsubscribe from receiving our quarterly newsletter any time by clicking on the unsubscribe link in the footer section of this newsletter.

If you see this newsletter in text only format, you could either change your viewer to HTML format or download the newsletter in pdf format from [our website](#).

Best regards from Eschborn, Germany

Dr. Elisabeth von Muench ([ecosan@gtz.de](mailto:ecosan@gtz.de))

## News

### Germany

#### The global sanitation crisis on the agenda of the German Parliament

In a plenum session on 5 December 2008, the German Parliament discussed the global sanitation crisis, its dimension, options to overcome it, and how Germany contributes already to the solutions – or even can strengthen its efforts.

The discussion was provoked by Dr. Uschi Eid, member of the German Parliament and UNSGAB Vice-Chair, as well as other members of the Bündnis90/Die Grünen party, who had submitted a parliamentary enquiry to the German government in connection with the International Year of Sanitation 2008.

### 9th SuSanA meeting

On behalf of the Sustainable Sanitation Alliance we would like to invite you to participate at the 9th SuSanA meeting in Addis Ababa, Ethiopia on the 16th and 17th May 2009 directly prior to the 34th WEDC international conference. The meeting will be hosted by WSP and the Ethiopian WASH coalition.

- [WEDC conference website](#)
- [SuSanA website](#)

### Upcoming events

16/03/09 – 22/03/09

[5th World Water Forum](#)  
Istanbul, Turkey

02/03/09 – 01/07/09

[UNESCO-IHE Online Course "Ecological Sanitation" and "Sanitation-related urban groundwater pollution"](#)  
online

10/05/09 – 13/05/09

[International Conference on Nutrient Recovery from Wastewater Streams](#)  
Vancouver, Canada

13/05/09 – 15/05/09

[4th International Conference on Sustainable Development and Planning](#)  
Cyprus

18/05/09 – 22/05/09

[34th WEDC International Conference](#)  
Addis Ababa, Ethiopia

9th SuSanA meeting will be held in conjunction with this conference

June 2009

[UMB course on Sustainable sanitation "Sustainable sanitation - decentralized, natural and ecological wastewater treatment"](#)  
UMB, Norway

During the 30-minute session the ecosan approach was mentioned several times as an innovative and important contribution for the required paradigm change towards more sustainable sanitation systems.

The official records of the plenum session are available in German language from the website of the German Bundestag (point 41 on the agenda). A 19-minute video recording is also available from the following links:

- [YouTube: Phoenix Bundestagsmitschnitt, 19 Minuten, 1. Teil](#)
- [YouTube: Phoenix Bundestagsmitschnitt, 19 Minuten, 2. Teil](#)
- [Bundestag, Protokoll, TOP41](#)
- [Drucksache 16/10922: Antworten zur Großen Anfrage](#)
- [Drucksache 16/11204: Antrag "Sanitaere Grundversorgung international verbessern"](#)

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## India

### Ecosan Exposure Dialogue Programme in India with German members of parliament

The Exposure Dialogue Programme (EDP) with a special focus on sanitation was carried out by a German NGO with great success in India in October 2008.

The EDP enables high-level decision makers from the spheres of politics, economics and society to live with a poor family in a developing country for two full days, and thus experience the impact of a development cooperation project from the perspective of this family.

Families in Gujerat, Maharashtra, Karnataka and Tamil Nadu were visited by 16 participants including representatives of the KfW, GTZ, private companies, civil society and two members of the German parliament.

One experience was that families used to having a toilet, will not go back to open defecation: "Their daughter and the son refuse to defecate in the open. The family has even decided to finance the toilet of their daughter's house, after she is married," said Ms Bierwirth, Member of the German parliament, after her stay with a local family in Trichy (Maharashtra).

Local partners in India included BORDA, Ecosan Services Foundation, Mythri Sarva Seva Samithi, Navsarjan Trust, SCOPE and CCD Society. The event was jointly organised by the Exposure Dialogue Programme NGO and the GTZ ecosan program.

- [The Hindu: "Learning new practices at Musiri"](#)
- [BORDA-SA: "EDP – a new approach to Sanitation learning and replication"](#)
- [EDP INSIGHTS: Sustainable Sanitation through empowerment and innovation – ECOSAN"](#)
- [Jutta Littmann: "Not from books, but from our own experience"](#)

#### Links in German language only:

- [EDP Einblicke: Nachhaltige Sanitärversorgung durch Empowerment und Innovation – ecosan \(PDF\)"](#)
- [Jutta Littmann: "Nicht aus Büchern, sondern aus eigenem Erleben"](#)
- [Jutta Littmann: "Schlichter Luxus hinterm Haus"](#)
- [Newsletter des MdB Detlef Mueller, SPD](#)

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## India

### India's Prime Minister calls for seeing human waste as a resource

The third South Asian Conference on Sanitation (SACOSAN) took place in New Delhi, India in November 2008 and was opened by Dr. Manmohan Singh, Honorable Prime Minister of India.

In his opening speech, the Prime Minister said that "new technologies have to be affordable and sustainable" when he spoke about the reuse and recycling options in sanitation and wastewater management. He also highlighted the strong connection of sanitation and personal hygiene to human dignity and well-

09/06/09 – 13/06/09

[2nd International Conference on landscape and urban horticulture](#)  
Bologna, Italy

17/06/09 – 19/06/09

[5th International Water, Wastewater, and Recycling Technology, Expo and Forum](#)  
Jakarta, Indonesia

08/07/09 – 10/07/09

[7th International Conference on Ecosystems and Sustainable Development](#)  
Chianciano Terme, Italy

12/08/09 – 15/08/09

[3rd International Dry Toilet Conference](#)  
Tampere, Finland

16/08/09 – 22/08/09

[Stockholm World Water Week](#)  
Stockholm, Sweden

The 10th SuSanA meeting will be held in conjunction with this event.

06/09/09 – 09/09/09

[Emerging solutions to water and sanitation challenges](#)  
Mexico City, Mexico

31/08/09 – 04/09/09

[Bioenergy 2009, International Bioenergy Conference and Exhibition](#)  
Jyvaeskylae, Finland

01/09/09 – 03/09/09

[5th Specialised Membrane Technology Conference for Water and Wastewater Treatment](#)  
Beijing, China

06/09/09 – 09/09/09

[1st IWA Development Congress](#)  
Mexico City, Mexico

05/10/09 – 09/10/09

[SARDINIA 2009](#)  
S. Margherita di Pula, Sardinia, Italy

## Jobs

GTZ has switched to e-recruiting and now offers an interactive e-recruiting system on [their website](#).

## Links

being, public health, nutrition and education.

Other key note speakers at this event included Indian agriculture scientist Prof. M. S. Swaminathan, Dr. Roland Schertenleib (EAWAG/SANDEC) and Ms. Sunita Narain (CSE) - who also emphasized the importance of sustainable sanitation including its linkage with agriculture.

- [Sustaining the Sanitation Revolution – India Country Paper](#)
  - [Keynote speech by Sunita Narain](#)
  - [Keynote speech by Roland Schertenleib](#)
  - [India's PM speech at the Third South Asian Conference on Sanitation](#)
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#### Uganda

### Update on multi stakeholder platform for ecosan in West Nile, Uganda, December 2008

Netherlands Development Organisation (SVN) and German Development Service (DED) are cooperating in the West Nile region of Uganda, one of the least developed regions in the country.

By sharing experiences around ecosan, a series of workshops and demonstration units will support local governments and other stakeholders in four districts. The cooperation will contribute to the 10-Year National Strategy on Ecological Sanitation in Uganda.

- [Website of the DED Uganda](#)
  - [Website of SNV Uganda](#)
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#### Rwanda

### Nile IWRM-Net holds workshop on sustainable sanitation in Kigali, Rwanda, December 2008

The Nile IWRM Capacity Building Network (Nile IWRM-Net) conducted a regional training workshop on "Sustainable Sanitation and Integrated Water Resources Management" in Kigali, hosted by Kigali Institute of Science and Technology (KIST) and Rwandan Ministry of Natural Resources. The workshop was attended by 26 participants from the Nile Basin Countries. A video conference with experts from GTZ in Eschborn and SEI in Stockholm provided an opportunity to share experiences and knowledge.

[Nile IWRM Capacity Building Network](#)

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#### Germany

### Meeting of German sanitation NGOs with German State Secretary of the Federal Ministry for Economic Cooperation and Development Mr. Erich Stather, November 2008

German State Secretary of the Federal Ministry for Economic Cooperation and Development, Mr. Erich Stather, recently met with German sanitation-related NGOs on World Toilet Day (19 November 2008) in Berlin to highlight the importance of basic sanitation.

"The problem of poor sanitary facilities is still underestimated, although it is one of the biggest obstacles for social and economic development", said Mr. Stather. Germany is the third biggest bilateral donor within the water and sanitation sector and the biggest bilateral donor in Africa. It invests a sum of 350 million Euros annually on water and sanitation related projects.

- [Forum Umwelt & Entwicklung: "50 Toiletten auf dem Washingtonplatz" \(in German\)](#)
  - [Entwicklungspolitik Online \(in German\)](#)
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#### The Netherlands

### IRC symposium on sanitation in cities, Delft, the Netherlands, November 2008

IRC marked its 40th anniversary with a three-day practitioner and research based symposium that focused attention on sanitation in cities during 19-21 November 2008.

#### [Ecosan photos on Flickr](#)

The GTZ ecosan team has been busy uploading and sharing many interesting and ecosan-related photos to flickr.com, a photo sharing website on the Internet. Currently, there are about 1400 ecosan related photos from many different contributors, each of them "tagged" with a few keywords (tag).

This Flickr work enables you to easily share ecosan related photos around the world, ensures that new people come across ecosan related photos, and thirdly highlights the need for improved sanitation world wide.

Examples of photo sets:

- [China: Erdos Eco-Town](#)
- [Burkina Faso: CREPA ecosan project in Ouagadougou](#)
- [Syria constructed wetlands](#)

#### [Yellow Pages of Sanitation](#)

The "Network for the development of Sustainable Approaches for large scale implementation of Sanitation in Africa" (NETSSAF) - a Coordination Action sponsored by the European Commission - invites you to register your organisation in a new online sanitation and wastewater treatment solutions Yellow Pages which can be accessed online.

#### [India Sanitation Portal](#)

Launched during SACOSAN 2008, the new India Sanitation Portal is a collaborative effort towards highlighting issues and successes in sanitation, and drawing more attention to this topic.

#### [Phosphorus Research Initiative](#)

The main objective of the Global Phosphorus Research Initiative (GPRI) is to undertake quality transdisciplinary research on sustainable global phosphorus resources for future food security. The website has the latest reports, publications and conference papers on phosphorus issues in relation to global food security.

[SuSanA: new case studies on](#)

The symposium on "Sanitation for the Urban Poor: Partnerships and Governance" ensured detailed and comprehensive discussions and brought together a wide range of experts and practitioners.

- [IRC sanitation symposium 2008](#)
- [Bracken & Panesar paper: Ecosan in poor urban areas – sustaining sanitation and food security](#)
- [Bracken & Panesar presentation: Ecosan for poor urban areas – sustaining sanitation and food security](#)

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## China

### 8th SuSanA meeting in Macau, November 2008



The minutes of the 8th meeting of SuSanA (Sustainable Sanitation Alliance), which took place in Macau with 65 participants, are now available on the SuSanA website.

On behalf of the Sustainable Sanitation

Alliance we would like to invite you to participate at the 9th SuSanA meeting in Addis Ababa, Ethiopia on the 16th and 17th May 2009 directly prior to the 34th WEDC international conference. The meeting will be hosted by WSP and the Ethiopian WASH coalition.

- [Website of the Sustainable Sanitation Alliance \(SuSanA\)](#)
- [Minutes of the 8th meeting in Macau, November 2008](#)
- [WEDC conference website](#)

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## Peru

### SuSanA presents at national sanitation conference Perusan 2008 in Lima, Peru, November 2008

More than 1,000 participants, among them three Peruvian ministers, attended the first national sanitation conference (PERUSAN) during 25-27 November 2008. 180 national and international presentations enriched the programme of the 3-day conference. The Ministerial Declaration includes 17 precise responsibilities to improve the sanitation situation in the country. Soeren Rued from the GTZ ecosan team gave a presentation on outputs of the working groups of SuSanA.

- [Website of the PERUSAN conference \(in Spanish\)](#)
- [SuSanA presentation by Soeren Rued \(in Spanish\) \(PDF 5,3 MB\)](#)
- [Presentation on eThekweni Municipality in Durban, South Africa by Teddy Gounden](#)

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## Germany

### International Symposium "Coupling Sustainable Sanitation and Groundwater Protection" in Hannover, Germany, October 2008

An international symposium on "Coupling Sustainable Sanitation and Groundwater Protection" was held in Hannover, Germany, during 14-17 October 2008 by the Federal Institute for Geosciences and Natural Resources (BGR). About 130 participants from more than 30 countries discussed the links between sustainable sanitation and groundwater protection. The symposium was considered as a way forward to further integrate the various disciplines - especially groundwater and sanitation. All presentations are available online.

- [BGR Symposium: "Coupling Sustainable Sanitation and Groundwater Protection"](#)
- [Presentation by Elisabeth von Münch \(GTZ\): Overview of anaerobic treatment options for sustainable sanitation systems \(PDF, 3.9 MB\)](#)

## [sustainable sanitation projects](#)

Several new case studies about sustainable sanitation projects have been uploaded to the SuSanA website, e.g. from India, Dubai, Philippines, Uganda, Ghana, Peru – more will be added throughout 2009. A case study template is also available on the same website (people with information about sustainable sanitation projects are encouraged to submit information on their projects in this SuSanA case study format).

## TIPS

### Active ecosan discussion forum available online

For ecosan-related questions and discussions, we remind you of the [web-based discussion forum](#) initiated by EcoSanRes. This forum currently has about 500 members from around the world, and on average 2-4 postings about ecosan topics are made to the forum each day. It is a great tool for knowledge sharing.

### How to search the archive of all past 30 GTZ ecosan newsletters (2001 – 2008)

If you would like to search the archive of all past newsletters (7.5 years worth of newsletters!), then the easiest way to do so is by using Google. For example, for articles on Malawi put "ecosan newsletter Malawi" or on biogas put "ecosan newsletter biogas". This method brings up articles of our past newsletters.

- [Presentation by Arno Rosemarin \(SEI\): Overview on dry sanitation concepts including handling and storage of urine \(PDF, 3.4 MB\)](#)
  - [Presentation by Mirko Hänel \(TTZ\): Sustainable and safe application of sludge and wastewater in short-rotation-plantations \(PDF, 2.5 MB\)](#)
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#### Ghana

### **Presidential candidates quizzed about sanitation, November 2008**

During the election campaign in Ghana, presidential candidates were taken through a series of questions on prime time radio to assess their level of understanding of the current state of sanitation and their commitment to dealing with the problems of sanitation in Ghana – with the aim to raise general awareness about this topic.

[Ghana presidential candidates quizzed about sanitation](#)

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#### Austria

### **Report on SuSanA activities at IWA conference Vienna, September 2008**

During the 6th IWA World Water Congress and Exhibition that took place in Vienna in September 2008, the SuSanA used the possibility to present the network to the public and to raise interest among the participants of the conference.

A variety of material from several SuSanA member organisations was exhibited at the SuSanA booth in the exhibition area, and presentations were given during the IWA “development corner”.

The interest was generally very high and many people passing by the booth stopped to have a look and asked for detailed information about the SuSanA network.

[SuSanA activities at IWA conference](#)

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#### Germany

### **Update on EU project for biomass production with wastewater to solve water and fertiliser bottlenecks**

The closed loop utilisation of black and greywater for biomass production is a possible solution to the rising cost of cultivating arable land. In BIOPROS, an EU project headed by ttz Bremerhaven, partners from 12 countries were working on disseminating know-how on the safe use of wastewater in order to encourage biomass production in the predominantly rural eastern countries of the EU and southern European regions with low precipitation.

- [Press announcement by ttz Bremerhaven](#)
  - [Website of BIOPROS](#)
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#### Ethiopia

### **Video clips on UUD toilets for multi-story buildings in Southern Ethiopia**

An 11-minute video about urine-diversion-dehydration toilets (UDDTs) in Southern Ethiopia is now available on YouTube. The footage was produced within the two projects ROSA (Resource-oriented sanitation concepts for peri-urban areas in Africa, EU funded) and ESE (Ecological Sanitation Ethiopia).

[YouTube Video Link](#)

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#### India

### **Update on light-weight concrete composite ecosan pans**

Energy, Environment and Development Society (EEDS) from Madhya Pradesh in India, developed various models of light weight concrete composites ecosan

(urine diversion) squatting pans with the support of UNICEF and SEI. "For the first time, Western type Ecosan Pans for "washers" which offers the facility of anal cleansing without the requirement of physical movement of the users has been successfully developed under this project".

#### [Light weight concrete composite ecosan pans](#)

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#### Mexico

### **Third course on regional and ecological wastewater treatment in Tepoztlan, Mexico, September 2008**

Mexican NGO Sarar Transformation SC organised the 3rd course on regional ecological sanitation in Tepoztlan Morelos, Mexico in September 2008.

During a participative and dynamic 9-day workshop, participants learned about the different socio-cultural aspects of wastewater systems and about Urine Diversion Dehydration toilets, constructed wetlands, rainwater harvesting and other technologies that provide a closing of nutrient loops.

#### [III Curso Internacional de saneamiento ecológico en Tepoztlán, México](#)

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## **Publications**

### **DWA book Novel Sanitation Systems (NASS – in German)**



The German Association for Water, Wastewater and Waste (DWA) launched a new book entitled "Novel sanitation systems" - in German: "Neuartige Sanitärsysteme" (NASS), which is the result of the work of a dedicated DWA committee for this topic which had 6 working groups. The launch took place at a symposium on 2 December 2008 in Weimar, Germany. The book includes guidelines on how to evaluate and choose different sanitation systems and how to integrate novel technologies into existing systems. It also includes future research and development needs in this area.

To order this book from DWA, please [click here](#).

- [Presentation Prof. Londong, Weimar University "What are novel sanitation systems?" \(in German\)](#)
  - [Presentation Dr. Daebel "Novel sanitation systems - investment option for venture capital" \(in German\)](#)
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### **Call for reuse of solid and liquid waste in West Africa (NETSSAF)**

This 8-page article in French is a product of the Expert Group 3 of the NETSSAF project which was completed in November 2008 after 2.5 years (an EU-funded project with 19 European and African partners). The document is a call for the reuse of solid and liquid waste in the West African context.

[NETSSAF \(2008\): Plaidoyer pour la valorisation des déchets solides et liquides - Un moyen de lutte contre la pauvreté. \[PDF, 366 KB\]](#)

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### **Sustainable sanitation in Indo-German development cooperation**

A new publication on "Sustainable Sanitation in India, Examples from Indo-

German Development Cooperation” was presented during SACOSAN-III and contains a preface by Smt. Santha Sheela Nair, Ministry of Rural Development in India. It includes project examples from German development cooperation organisations such as GTZ, KfW, BORDA and CIM.

[Sustainable Sanitation in India, Examples from Indo-German Development Cooperation](#)

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### **Sustaining the Sanitation Revolution – India Country Paper**

As India becomes more populous, its growth poses significant challenges to the provision of environmental services such as water, sanitation, solid waste management and drainage. Lack of adequate sanitation is a pressing challenge in both rural and urban India. Sanitation-related diseases take a heavy toll of lives and are a drain on productivity and incomes. However, in both rural and urban spheres, promising initiatives are underway to tackle the sanitation challenge.

[India: Country Strategy on Sanitation](#)

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### **Greywater reuse in rural schools in India**

The wise water management manual was developed by National Environmental Engineering Research Institute in Nagpur, India, following WHO recommendations for the safe reuse of water. The purpose of the manual is to establish acceptable means for greywater reuse as a guide for local government and residential schools. It demonstrates methodology proposed by WHO to derive the health-based targets and water safety plan for safe (re)use of greywater.

- [Greywater reuse in rural schools \(source\)](#)
  - [India: manual on greywater reuse in rural schools \(PDF 750 KB\)](#)
- 

### **RUAF Urban Agriculture Magazine contains information on productive sanitation**

Issue No. 20 of the RUAF Urban Agriculture Magazine “Water in Agriculture” features a special section on reuse-oriented or productive sanitation systems. Productive sanitation stands for closing the nutrient loop between sanitation and agriculture to achieve higher agricultural production and improved food security.

[RUAF: Water for Urban Agriculture](#)

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### **Publication on use of human urine in aquaculture**

Professor B.B. Jana from the International Centre of Ecological Engineering at the University of Kalyani in West Bengal, India has published the paper “Human urine is an excellent liquid waste for the culture of fish food organism, Moina micrura” – this food is required for larval and post larval rearing of commercial fishes. The abstract of the article is available at the link below.

Further information can also be obtained via e-mail to B. B. Jana:

[bbj\\_icee@yahoo.co.in](mailto:bbj_icee@yahoo.co.in)

[Human urine is an excellent liquid waste for the culture of fish food organism \(abstract\)](#)

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### **Global Atlas of Excreta, Wastewater Sludge, and Biosolids Management**

A "Global Atlas of Excreta, Wastewater Sludge, and Biosolids Management" was formally launched in September 2008 at the IWA World Water Congress in Vienna. The publication, which is available online from UN Habitat, details the management of excreta, wastewater, and biosolids in 37 countries around the

world and contains chapters from local experts in each country.

[Global Atlas of Excreta, Wastewater Sludge and Biosolids Management](#)

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### **Philippine Allotment Garden Manual**

The latest version of the "Philippine Allotment Garden Manual with an Introduction to Ecological Sanitation" of Xavier University's Periurban Vegetable Project (PUVeP) is available for download.

[Philippine Allotment Garden Manual](#)

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### **Solutions in Sanitation Planning Principles**

The Austrian Development Agency (ADA) in cooperation with the EcoSan Club has published a brochure on sanitation planning principles which is available online.

[Solutions in Sanitation Planning Principles](#)

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### **Urine harvesting / waterless urinals posters in India**

Posters on urine harvesting and waterless urinals have been prepared by the Indian Institute of Technology Delhi and The Vigyan Vijay Foundation, New Delhi as part of the pilot project on waterless urinals being implemented with the support of Stockholm Environment Institute and UNICEF.

[Posters on urine harvesting / waterless urinals](#)

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### **Abstract volume Stockholm World Water Week 2008**

An abstract volume titled "Progress and Prospects on Water: For a Clean and Healthy World – with a Special Focus on Sanitation" from the past World Water Week 2008 in Stockholm is now available online.

[Progress and Prospects on Water: For a Clean and Healthy World – with a Special Focus on Sanitation \(abstract\)](#)

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### **2008 World Water Week Synthesis Report**

The 2008 World Water Week Synthesis Report is now available. It includes SIWI's scientific and policy conclusions from the week. Please note that it has a special focus on sanitation this year, and in the overarching conclusions on page 4 it highlights the importance of considering productive sanitation systems (i.e. those which allow recycling of nitrogen and phosphorus).

[2008 World Water Week Synthesis Report](#)

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### **New book on composting toilets (in German, by Berger Biotechnik)**

A new publication by Wolfgang Berger and Claudia Lorenz-Ladener explains the basic principles, concepts and practical examples of waterless sanitary engineering. The publication, which is currently only available in German language and can be purchased online, shows different methods and provides an overview on biological dry and compost toilet systems, especially adapted to the German legislation.



[Berger / Lorenz-Ladener: "Kompost-Toiletten" \(in German\)](#)

(can be purchased online, EUR 32,90)

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### Imprint

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