

Dear Reader,



In this newsletter we have many encouraging news items showing events and conferences which are building pressure on the political scene to act on the issue of water and sanitation and which spread knowledge on sanitation systems.

April saw a huge change in our team: Dr. Arne Panesar – who has made remarkable contributions in building up the SuSanA-network and in getting sustainable sanitation / ecosan much higher up on the political agenda - has left our team and is now

a GTZ country manager for India (based in Eschborn). We thank him for his valuable contributions and wish him the very best in his future endeavours! He assures us that he will continue to be interested in ecosan issues and contribute his knowledge.

An interesting development is the use of [Facebook](#) for fast and easy spread of short news updates, which is used by more and more organisations, including [SuSanA](#), [Sustainable Sanitation Design](#), [Ecosan Network Kenya](#) and also [WTO](#), [Water Aid](#) to name but a few. So if you don't have a Facebook account yet, now might be the time to jump on the bandwagon. It is one possible new method to communicate news efficiently, also in the sanitation scene.

If you see this newsletter in a messy-looking text-only format, please adjust your e-mail program to display e-mails in HTML-format. A [French version](#) is also available.

Best wishes from Germany,

Rahul Ingle (ecosan@gtz.de)
(Co-editor of this newsletter)

News

Kenya

Establishment of an ecosan network in Kenya – Apr. 2010



In Kenya there is now awareness about ecosan amongst users, organisations and governmental institutions after 3.5 years of activities by the EU-SIDA-GTZ EcoSan Promotion Project (the funding for which has now ceased). GTZ is now supporting the establishment of an ecosan network in Kenya to link up all interested people to exchange ideas, information and events on ecosan. Moreover it is supporting the establishment of a foundation to provide training and further awareness raising workshops for users of about 1000 units of UDDTs at households and schools as well as a dozen

DEWATS and biogas plants being used in public toilets and schools.

[Join Facebook page of ecosan network Kenya \(to become a member, click on the "like" button\)](#)

[Description of EU-SIDA-GTZ Ecosan Promotion project \(example of biogas plant at Naivasha bus park\) \(PDF; 1.1 MB\)](#)

[Description of UDDT implementation in Kenya \(PDF; 0.9 MB\)](#)

[Sampling report for products from double-chamber UDDTs \(Faeces and urine\) \(PDF; 1.7 MB\)](#)

Kenya

Update on peepoo bags: "Forget flying toilets, it's all fertiliser" – Apr. 2010

International media is picking up on the issues of slum sanitation and the potential of peepoo bags. They write: "Time for the flying toilets may have ended after an invention of a biodegradable plastic bag — peepoo — that acts as a single-use toilet. The peepoo is a small biodegradable bag coated with a thin film of urea, which turns human waste into fertiliser. Peepoo will provide a cleaner and more environmentally friendly alternative to the flying toilets. The trials carried out in Silanga, Kibera proved successful and will be rolled out on a wide scale."

[Read full article in Kenyan newspaper](#)

[News video in Al Jazeera](#)

[A list of pros & cons of the Peepoo system \(compiled by J. Eichholz\)](#)

Philippines

Terra Preta Sanitation (TPS) Workshop at Xavier University, Cagayan de Oro City, Philippines – Apr. 2010



The Xavier University Sustainable Sanitation

Breaking News

[Struvite precipitation reactor](#) now installed at GTZ building in Eschborn as part of the [SANIRESCH](#) project.

Links

[News from IWA Specialist Group](#) on "Resources Oriented Sanitation (EcoSan)" with report about Conference S2Small2010 and elections for the IWA Specialist Group.

[Minutes, presentations and pictures](#) from the 11th Sustainable Sanitation Alliance meeting in Rio de Janeiro, Brazil in March are now available. SuSanA meeting participants also participated in [World's Longest Toilet Queue](#).

Presentation slides from "[Training of Trainers on Sustainable Sanitation](#)" held at the Sunrise Holiday Mansion in Metro Tagaytay, Philippines, March 2010 organised by Center for Advanced Philippine Studies (CAPS).

Presentations from [Mini Seminar on Phosphorus Shortage](#): European challenges at European Parliament in Brussels, March 2010.

[Presentations from NASS-Tage](#) (novel sanitation systems) in Weimar/Germany, March 2010 (organised by DWA, in German).

Presentations from [Semi-centralised and decentralised waste water management](#) Bonn/Germany, March 2010 (organised by German Federal Ministry of the Environment, in German).

Kamal Kar's [Trainers' Training Guide on Community-Led Total Sanitation \(CLTS\)](#) has just been published by the [Water Supply and Sanitation Collaborative Council](#) (WSSCC). This publication gives guidance on how to conduct training of CLTS facilitators.

[Good Practice Note: Reaching the MDG Target for Sanitation in Africa - A Call for Realism](#) is a new publication by the Ministry of Foreign Affairs of Denmark.

The popular [ecosan technology matrix](#) is now available in English, German, Spanish and French for inclusion in your powerpoint presentation.

The number of fans of the [SuSanA Facebook page](#) is now over 400! So far, most of the fans are from Germany, USA, Sweden and India.

We have further improved our [worldwide ecosan project list](#), (please [e-mail us](#) for a more



Center in collaboration with the Research and Social Outreach Cluster of Xavier University wholeheartedly welcomed Prof. Dr.-Ing. Ralf Otterpohl, director of the Institute of Wastewater Management of Hamburg University of Technology (TUHH) and Dr. Jürgen Reckin, a plant variety and Terra Preta expert, from Germany for an intensive Terra Preta Sanitation Workshop in Cagayan de Oro, Philippines, in April. The aim of the workshop was to get a common understanding on Terra Preta Sanitation, the current state of knowledge and research and how this concept can be practically implemented and tested in the Philippine setting.

[Terra Preta Sanitation at a glance \(PDF; 0.8 MB\)](#)
[Proceedings of the Terra Preta sanitation workshop \(PDF; 0.5 MB\)](#)

India

National School sanitation initiative launched in India – Apr. 2010



The Urban Development and Human Resource Development Ministries in India along with the Central Board for Secondary Education and GTZ launched the National School Sanitation Initiative on 27 April. A school sanitation manual was inaugurated by the acclaimed Bollywood actor Aamir

Khan who agreed to be the brand ambassador for this campaign. Health and wellness clubs will be set up in schools to make children aware of good health and sanitation practices. The Sustainable Sanitation Alliance (SuSanA) and school sanitation activities of its partners were as well presented during the function.

[Read news report](#)
[The Indian National Urban School Sanitation Initiative \(PDF; 1.9 MB\)](#)
[Video coverage of the launch of the initiative](#)
[Presentation by Arne Panesar on "Introduction to the Sustainable Sanitation Alliance - School Sanitation is Key!" \(PDF; 4.0 MB\)](#)
[Official website of the program](#)
[More pictures from the event](#)

Dubai, United Arab Emirates, worldwide

Call to Action on WASH in Schools launched at DIHAD, Dubai – Apr. 2010

UNICEF, WHO, Water Advocates, Water For People, IRC, Emory University, Save The Children, CARE, Water Aid and Dubai Cares as well as several other international partners are collaborating on a global campaign called "Call to Action on WASH in Schools". This campaign targets primarily global policy and decision makers in the education, health and water sector, worldwide press, corporations and foundations to promote the message that it is time to act to equip all schools with WASH facilities.

[Raising Clean hands: Advancing health, learning and participation through WASH in Schools](#)
[Read more on the WASH in Schools program](#)
[Read more on UNICEFs activities in the WASH in Schools](#)

USA, worldwide

First High-Level Meeting on sanitation and water in Washington – Apr. 2010

The first Annual High-Level Meeting (HLM) on sanitation and water hosted by UNICEF took place in Washington on 23 April 2010, bringing more than 30 ministers and policy makers together from North and South to review the progress of MDG and take concerted action to tackle the global sanitation and water crisis. Many countries, such as Ghana, Liberia and Ethiopia, committed to raising domestic budgets to meet regional commitments, such as those in Africa to spend 0.5% of Gross National Income (GNI) on sanitation.

[Video: World Bank Managing Director Ngozi Okonjo-Iweala speaks about her personal experiences](#)
[Speech by World Bank Group Managing Director, Ngozi N. Okonjo-Iweala](#)
[Panel discussion of solutions for the 2.6 billion people who still lack access to sanitation](#)
[Recommendations for the Annual High-Level Meeting on Sanitation and Water](#)
[Read an update on the outcome of the meeting \(by Wateraid\)](#)
[Wateraid Campaign – the White House](#)

Brazil

High level political talk on "Sanitation, Wastewater and Solid Waste Management: Linking the issues for a liveable city" – Mar. 2010

UN Habitat and the Sustainable Sanitation Alliance (SuSanA) organised this special event at the World Urban Forum in Rio de Janeiro, Brazil (WUF 5): "Linking the issues for a liveable city". A political stage was created to discuss key issues in urban management related to solid and liquid waste and how they impact on cities. Mr. Franz Marré, Head of Division Water, Energy, Urban Development at the German Federal Ministry for Economic Cooperation and Development (BMZ) was amongst the distinguished speakers who stressed the recognition of water and sanitation as a human right. He also stressed that a sustainable approach to sanitation through productive sanitation needs to be incorporated to ensure food security.

detailed list or to add new information).

Videos

Video clips filmed in villages in Niger by the project "[Productive Sanitation in Aquie](#)" funded by IFAD and implemented by CREPA in collaboration with SEI.

Video clips about biogas sanitation from EU-SIDA-GTZ EcoSan Promotion Project: [Gachoire Girls High School](#) in Kiambu/Central Province and [Naivasha Bus Park](#) in Naivasha, Rift Valley Province, Kenya.

Video of [Urine Diversion Dehydration Toilets in El Alto](#), Bolivia by ABONA.

Bollywoodstar [Aamir Khan becomes the brand ambassador](#) for the Indian union ministry's school sanitation program.

If you have good videos about sustainable sanitation projects, please alert the SuSanA secretariat so that they can be [linked from the SuSanA web page](#). See also [SuSanA's YouTube channel](#) for more interesting video clips!

Upcoming events

Various events in 2010
[CDD Society's Training Calendar](#) (Consortium for DEWATS Dissemination)
 Bangalore, India

1 June 2010
[Summer course in sustainable sanitation](#)
 Norwegian University of Life Sciences (UMB), Norway

2 – 4 June 2010
[6th World Water Forum Kick-off Meeting](#)
 Paris & Marseille

8 – 20 June 2010
[High Level International Conference on the Mid-term Comprehensive Review of the Implementation of the International Decade for Action, "Water for Life," 2005-2015](#)
 Dushanbe, Tajikistan

15 – 25 June 2010
[Expert training courses on Sustainable Sanitation and Water Management \(SSWM\)](#) in Cagayan de Oro, Philippines

3 – 4 Sept. 2010
[12th SuSanA meeting](#)
 Stockholm, Sweden

5 – 11 Sept. 2010
[World Water Week](#)
 Stockholm, Sweden

15 – 17 Sept. 2010
[International Conference on Sustainable Water Management](#)
 Jamshoro, Pakistan

20 – 22 Sept. 2010
[High-Level Meeting to Review Progress on the MDGs](#)
 New York City, USA

[Agenda of the event \(PDF; 0.1 MB\)](#)
[Presentation by Arne Panesar on "Sanitation in cities – a framework for action" \(PDF; 3.1 MB\)](#)
[Updates of the meeting were posted live on Twitter by Rahul Ingle](#)
[Website of WUF-5](#)
[Website of Germany's contribution to WUF](#)

Belgium

Phosphorus Shortage: European challenges – Mar. 2010

The threatening shortage of phosphorus – a key component of fertilisers – is worrying for the world's food supplies. Global supply is limited and concentrated in just a few countries. Demand is increasing rapidly. Since there is no alternative for phosphorus, innovative strategies are needed to ensure its availability. Bas Eickhout and Lena Ek (both members of the European Parliament) and the Nutrient Flow Task Group intended this Mini Seminar to accelerate the search for solutions and help develop opportunities created by the phosphorus crisis.

[Presentations from the seminar](#)

Philippines

Testing of "My School Loo" Sanitation and Hygiene Education Material in schools in the Philippines – Mar. 2010



The German Toilet Organization (GTO) in cooperation with UN-Water recently developed a comprehensive set of sanitation and hygiene education material for schools - called 'MY SCHOOL LOO' - aiming to generate sanitation and hygiene awareness among school children and to carry appreciation for the benefits of sanitation and hygiene into families. With the local support of the Sustainable Sanitation Center of Xavier University a first testing of the material was carried out in two Elementary Schools in Cagayan de Oro, Philippines. The results are used to optimise the materials further.

[Results of "My school Loo" testing in the Philippines \(PDF; 2.5 MB\)](#)

Germany

Campaign: "Every Poo needs a Loo" by WASH United and German Toilet Organisation – 22 Mar. 2010

More than two hundred people stood up for those who can't sit down and queued up behind a beautifully decorated wooden outhouse right in front of Germany's most important national monument – the Brandenburg Gate in Berlin. This toilet queue was part of "[The World's Longest Toilet Queue](#)", a worldwide initiative taking place in more than 70 countries to raise awareness for the 2.5 billion people who still lack access to sanitation organised by WASH United's partners EndWaterPoverty and WSSCC. The Berlin queue was led by Catarina de Albuquerque (United Nations Independent Expert on the Right to Water and Sanitation and WASH United ambassador) as well as UNSGAB Vice Chair Dr. Uschi Eid and Green Party leader Renate Künast.

[Read more on the event on WASH United home page](#)
[2-minute video clip about the event](#)

Publications

Sustainable Sanitation Alliance

12 new case studies on SuSanA website – Apr. 2010

Twelve new SuSanA case studies from the ROSA projects in Ethiopia, Uganda and Tanzania have been uploaded on the SuSanA website (in total there are now 44 case studies).

[Arborloo for household sanitation, Arba Minch, Ethiopia](#)
[Fossa alterna for household sanitation, Arba Minch, Ethiopia](#)
[Greywater tower, Arba Minch, Ethiopia](#)
[Urine diversion dry toilet \(UDDT\) for Agafari's household, Arba Minch, Ethiopia](#)
[UDDT for Nelson Mandela School, Arba Minch, Ethiopia](#)
[Urine diversion dehydration toilets at a residential plot, Nakuru, Kenya](#)
[UDD toilets and greywater treatment at secondary school, Nakuru, Kenya](#)
[UDD toilets at a church and nursery school, Nakuru, Kenya](#)
[Composting at households, Kitgum, Uganda](#)
[Greywater tower gardens at household level, Kitgum, Uganda](#)
[UDDTs for households, Arusha, Tanzania](#)
[UDDTs for a primary school, Arusha, Tanzania](#)

Sustainable Sanitation Alliance

Technical drawings on SuSanA website – Apr. 2010



Technical drawings for important sanitation technologies (biogas sanitation, constructed wetlands, UDDTs, etc.) from different sources are now available on the SuSanA website. Please send us more drawings if you have some.

[Biogas plants](#)
[Constructed wetlands](#)

19 – 24 Sept. 2010

[IWA World Water Congress](#)
Montreal, Canada

4 – 7 Oct. 2010

[12th IWA International Conference on Wetland Systems for Water Pollution Control](#)
Venice, Italy

25 – 26 Oct. 2010

[Water and Health: Where Science Meets Policy Symposium](#)
Chapel Hill, USA

31 Oct. – 4 Nov. 2010

[IWA specialist congress: the 12th world congress on Anaerobic Digestion \(AD12\)](#)
Guadalajara, Jalisco - Mexico

2 – 5 Nov. 2010

[Ecosanlima 2010](#)
Lima, Peru

19 Nov. 2010

[World Toilet Day](#)

2 – 5 Feb. 2011

[International Conference on Integrated Water Management](#)
Perth, Australia

14 – 18 Feb. 2011

[SACOSAN IV](#)
Colombo, Sri Lanka

Mar. 2012

[World Water Council](#)
Marseille, France

2012

3rd East Asian Ministerial Conference on Hygiene and Sanitation
Bali, Indonesia

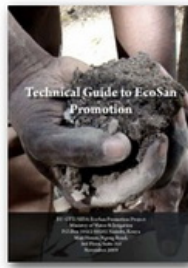
Jobs

GTZ uses e-recruiting and offers an [e-recruiting system](#).

Applications are always [invited](#) from international MSc students currently studying in Germany wanting to do a 3-months internship with the GTZ ecosan team.

EJ-SIDA-GTZ EcoSan Promotion Project, Kenya

"Technical Guide to EcoSan Promotion" – Apr. 2010



In the past decades, Kenya has not been able to keep track with the provision of adequate sanitation facilities and their management public places, schools and households. This guideline showcases the latest developments in ecological sanitation as an alternative sanitation approach in the Kenyan context. It provides technical information, case examples and background information on ecosan. Hardcopies will be distributed to various users, beneficiaries, Kenyan water sector institutions and Kenyan ministries.

[Technical Guide to EcoSan Promotion in Kenya \(PDF; 4.1 MB\)](#)

BORDA, Germany

"Decentralized Wastewater Treatment Systems (DEWATS) and Sanitation in Developing Countries - a practical guide" – Mar. 2010



The international discussion about the conservation of water resources and more target-oriented poverty alleviation strategies creates a favourable environment for new sanitation approaches and innovative wastewater treatment solutions. In many countries, a rapidly upcoming demand for DEWATS and a demand for efficient community-based sanitation (CBS) can be observed. DEWATS is designed to be an element of a comprehensive strategy for citywide planning and sustainable infrastructure development.

[DEWATS and Sanitation in Developing Countries - a practical guide \(PDF; 6.8 MB\)](#) (sample pages; note: pdf file not available, publication must be purchased)

EcoSan Club, Austria

Journal Sustainable Sanitation Practice on "Use of urine" – Apr. 2010



The third issue of the Sustainable Sanitation Practice (SSP) Journal with the title "Use of urine" is now available online (free of charge). It contains for example research findings for urine use in agriculture and gardening in Burkina Faso, Niger, Ethiopia and USA. The journal seeks to contribute high quality information on practical experiences with available sustainable sanitation systems. The topic of Issue 4 (planned for July 2010) will be "The ROSA project".

[Issue 3 "Use of urine"](#)

UN-Water, Worldwide

GLAAS report now available – Apr. 2010



The Global Annual Assessment of Sanitation and Drinking-Water (GLAAS) is a UN-Water initiative implemented by the World Health Organization (WHO). The objective of UN-Water GLAAS is to provide policy makers at all levels with a reliable, easily accessible, comprehensive and global analysis of the evidence to make informed decisions in sanitation and drinking-water. As one example: Improved access to sanitation and water produces economic benefits that range from US\$ 3 to US\$ 34 per US\$ 1 invested, increasing a country's gross domestic product

(GDP) by an estimated 2% to 7%.

[GLAAS report 2010](#)

WHO/UNICEF, worldwide

Progress on sanitation and drinking water (JMP report update) – Mar. 2010



For the first time in this series of JMP reports, the word "sanitation" appears before "drinking water" in the title – does that signify something...?

The JMP report presents the current status and trends in 209 countries or territories towards reaching the drinking-water and sanitation MDG target, along with an assessment as to what these trends reveal. Unless huge efforts are



made, the proportion of people without access to basic sanitation will not be halved by 2015. Even if we meet the MDG target, there will still be 1.7 billion people without access to basic sanitation.

[JMP report \(Update in 2010\)](#)

BMBF (German Federal Ministry of Education and Research)

Closing Nutrient Cycles in Decentralised Water Treatment Systems in the Mekong Delta (SANSED project) – Apr. 2009

SANSED, the Vietnamese-German joint research project studied the suitability of decentralised water treatment systems to recover nutrients and to produce safe fertilisers. Within the project, a variety of treatment systems for both - drinking and wastewater – were installed and operated at a university. Besides operation, the substrates of the wastewater treatment units were tested on their suitability as organic fertilisers, supplemented by socio-economical and hygienic studies.

[Final Report of SANSED project \(PDF; 10.1 MB\)](#)

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