



ecosan – newsletter – no. 5 – 07/2002 – english

This regular electronic news bulletin from the ecosan project 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 in English, French, Spanish and German; issue no. 5!

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 and English versions as easy-to-read pdf files from our website.

!!! Downloads:

German: <http://www.gtz.de/ecosan/docs/nl5dt.pdf>
Spanish: <http://www.gtz.de/ecosan/docs/nl5esp.pdf>
French: <http://www.gtz.de/ecosan/docs/nl5fr.pdf>
English: <http://www.gtz.de/ecosan/docs/nl5eng.pdf>

Your ecosan team hopes you enjoy our 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 for any contribution!

In-house news

**„2nd International Symposium on ecological sanitation
– including IWA specialist group conference on Sustainable Sanitation”,
7. -11. April 2003, Lübeck, Deutschland**

Preparations are advancing. In May, you received the call for papers for our second international ecosan-symposium (don't forget the deadline 31.7.02). We would be grateful if you would pass this call on to other authors too. We hope that this certainly exciting event will be well attended! The original call for papers document, the preliminary programme and all the relevant information are/will be published on our homepage under

<http://www.gtz.de/ecosan/symposium-2003.html>.

GTZ-ecosan-project builds up literature database

Collecting current, relevant technical literature is one of the tasks of the ecosan project. Although we are unable to offer library services for external users, we should like to make this literature publicly available at least indirectly, and we have therefore joined the literature database WinISIS through which you can now seek publications externally on the basis of keywords etc. Although we are regrettably unable to lend out these publications, you will be able to find out on the database how to procure them, and readers who would like to visit us can study the books here.

Access and instructions for use will be published on our homepage shortly:

http://www.gtz.de/ecosan/english/lit_database.html

Report by GTZ and ATV ecosan - Side Event at IFAT, May 2002

On Tuesday, 14 May, GTZ and the BMZ in cooperation with ATV-DVWK organised a three-hour "Developing Countries Workshop" on the theme "Global Future: Recycling Concepts in Municipal Wastewater and Faecal Management". Various international speakers, including Heinz-Peter Mang from the ecosan-team, reported on their current experience and visions on this theme. We were pleased to note that the event was very well attended with approx. 130 participants and that the feedback was thoroughly positive. Intensive discussion developed on the feasibility of closed-loop approaches. This showed that the question of nutrient use within the framework of wastewater treatment still takes a distinctly back-seat position for many experts by comparison with the purification aspect.

The papers can be downloaded under:

http://www.gtz.de/ecosan/docs/IFAT_belevi.pdf

http://www.gtz.de/ecosan/docs/IFAT_rakelmann.pdf

http://www.gtz.de/ecosan/docs/IFAT_otterpohl.pdf

Recent News

Italy's Minister of Environment aims to embody wastewater recycling in law

Wastewater reuse is not a "Third-World-subject"! Italy's environment minister has unveiled a bid to "significantly" cut pressure on ground and freshwater resources by encouraging and regulating re-use of municipal and industrial wastewaters. Altero Matteoli's draft decree has already won support from the agriculture and industry ministries and is now awaiting approval from the health ministry. The draft decree sets detailed quality standards for wastewaters before use in agriculture, industry and towns. In urban areas it could be used in street cleaning and heating and cooling systems, and even by households as long as circuits are kept separate from the potable water supply.

Mr Matteoli estimates that recycled wastewaters could potentially satisfy 29% of farmers' water requirements - Italy's most water-hungry sector - so helping to reduce consumption from groundwaters and rivers. In the drier south this could even rise to 36%.

!!! Follow-up: Italian environment ministry

<http://www.minambiente.it/Sito/home.asp>

and press release:

http://www.minambiente.it/Sito/comunicati/2002/02_03_22.asp

Invitation for Nominations: Stockholm Water Prize 2003

Annually The Water Foundation awards the Stockholm Water Prize during the World Water Week in Stockholm, Sweden.

For the coming year 2003, leading scientific organizations, universities, colleges, academies, learned bodies and individuals from all over the world are invited to nominate candidates for the Prize. Many fields of research or action are eligible from within the water-related science, engineering, technology, awareness building, or public policy sectors.

Nominations must be sent before September 30, 2002.

!!! For more details, please visit: <http://www.siwi.org/swp/swp.html>

or contact David Trouba at dave.trouba@siwi.org

Germany: pilot resource management project in horticultural firm

On the Lower Rhine, in Germany's leading horticultural and market gardening region, the first biogas plant was started up at the end of last year in an energy-intensive horticultural enterprise. It forms part of a closed-loop resource management system.

The fermentation residues are separated into liquid and solid phases and used as nutrient solution, for watering, and as a culture substrate. Heat, electricity and CO₂ are used in the greenhouses. Optimal input and output are tested and analysed in parallel. Furthermore, a networked international research project is being launched. This will examine fuel cell technology, the rendering of residual substances suitable for transport and their use, the utilisation of CO₂, and the subject of energy contracting.

!!! Infos: www.gbz-straelen.de

Recent Publications

New book from IWA: "Urban Rivers - Our Inheritance and Future"

Books

IWA publishing (2002): Urban Rivers - Our Inheritance and Future; Editors: G. Petts, J. Heathcote, D. Martin; pages: 128; · ISBN: 1900222221; IWA Members Price: £15.00 / US\$24.00; Non Members Price: £20.00 / US\$32.00

The book provides an illustrated overview of the effects of urbanisation on the aquatic environment, potential solutions to the resulting problems, and new opportunities for the regeneration of urban streams and rivers, and of land along their corridors and of adjacent urban areas. The book is written to be accessible to a broad audience and should provide a stimulating and informative introduction to the subject for all those concerned with the urban river environment.

!!! For further information or to buy on-line visit:

<http://www.iwapublishing.com/template.cfm?name=isbn1900222221>

!!! or order via Agent:

Portland Customer Services, Commerce Way, Colchester, CO2 8HP, UK, Tel: 44 (0)1206 796351, Fax: 44 (0)1206 799331, Email: sales@portland-services.com

IWA: "Wastewater Reclamation, Recycling and Reuse"

IWA publishing (2001): Wastewater Reclamation, Recycling and Reuse; Selected proceedings of the 3rd International Symposium on Wastewater Reclamation, Recycling and Reuse, July 2000; Editors: F. Brissaud, J. Bontoux, R. Mujeriego, A. Bahri, C. Nurizzo, T. Asano; pages: 352; · ISBN: 1900222728; IWA Members Price: £99.00 / US\$149.00; Non Members Price: £130.00 / US\$195.00

43 contributions from Asia, Europe and the United States provide a reliable overview of technology and practice, as well as perspectives for water recycling as reflected in current research and world-wide experience in practice.

New updated version: IWA Dictionary of Water and Waste Management

IWA publishing (2002): Dictionary of Waste and Water Treatment; Authors: PG Smith, JS Scott; pages: 448; · ISBN: 1843390159; IWA Members Price: £27.00 / US\$41.00; Non Members Price: £35.00 / US\$53.00

The first edition of the Dictionary of Waste and Water Treatment was published in 1981 and was aimed at treatment and treatment design. Over the last 20 years, areas such as air pollution control, solid waste management, hazardous waste management, pipeline management (leakage control, pipeline and sewer renewal) and environmental management systems have all become increasingly important. To reflect this shift, this completely revised and updated edition now covers water and waste management as well as treatment.

!!! More information & order online:

<http://www.iwapublishing.com/template.cfm?name=isbn1843390159>

!!! Or order from IWA Publishing's distributor (address see above)

Key Factors for Sustainable Cost Recovery in the Context of Community-Managed Water Supply

IRC (2002); Key Factors for Sustainable Cost Recovery in the Context of Community-Managed Water Supply, Occasional Paper Series no. 32; Authors: François Brikké and Johnny Rojas; pages: 75; Price: € 9; Order code: OP 32-E

Sustainable cost recovery relies on a series of factors that range from tariff design to the design of an appropriate strategy, the application of sound financial management principles, the optimization of costs and the promotion of willingness to pay. The document reviews all these factors in detail and provides, where feasible, examples and exercises. The document is meant for sector professionals at project management, conception and planning level.

ORDER BEFORE 30 JULY AND GET A 50% DISCOUNT ON THE LIST PRICE.

!!! To order, send an e-mail to publications@irc.nl
or visit www.irc.nl

Serving the Water and Sanitation Sector: resource centre experiences, developments and future trends

IRC (2002); Serving the Water and Sanitation Sector: resource centre experiences, developments and future trends, Project and Programme Paper Series no. 7; Authors: Liqa Rashid-Sally, Mariëlle Snel, Teun Bastemeijer;; pages: 56; Price: € 9; Order code: PR 7-E.

This publication shows how resource centres, through providing better access to knowledge, can create the conditions to improve the water and sanitation sector. It summarizes the experiences of resource centre development and networking by Streams of Knowledge, the emerging Coalition of Resource Centres. The publication is meant for management of and staff working in resource centres

ORDER BEFORE 30 JULY AND GET A 50% DISCOUNT ON THE LIST PRICE.

!!! To order, send an e-mail to : publications@irc.nl or visit www.irc.nl

!!! Also downloadable from the Internet, free of charge:
<http://www.irc.nl/products/publications/online/pr7e/index.html>

Sewage Solutions: Answering the call of nature

CAT publications (2000): Sewage Solutions: Answering the call of nature; Authors: Nick Grant, Mark Moodie, Chris Weedon; pages: 192; · ISBN: 1898049165; Price: £10.00

Sewage is a vital part of the planet's life-cycle that provides essential nutrients for soil and plants. As an alternative to polluting water courses, there are a number of ways to recycle sewage for such vital uses. This book documents and explains such natural methods of treatment as reed beds, cess pits, water stabilisation ponds, septic tanks and compost toilets, as well as describing how to collect and recycle waste water. Sewage Solutions is the guide for anyone interested in dealing with the complete process of DIY sewage recycling.

!!! available at:
<http://www.cat.org.uk/catpubs/book.tmpl?cart=323339186634378&sku=ss>

The Compost Toilet & Greywater Recycling Systems Manual

ECO DESIGN Sustainable Housing: The Compost Toilet & Greywater Recycling Systems Manual; pages: 129; Price: US\$ 50/AUD 75 outside/within Australia

Instructions for do-it-yourself builders with texts and graphics for low-cost and low-

maintenance greywater recycling and compost toilet systems with low energy consumption and using recycled materials.

!!! Order: <http://homepage.powerup.com.au/~edesign/page2.html>

Reader: "Growing cities – growing food" now in Spanish too

DSE / ZEL: Growing Cities – Growing Food; Editors.: Nico Bakker, Marielle Dubbeling, Sabine Gündel, Ulrich Sabel-Koschella, Henk de Zeeuw; pages: 531; ISBN 3-934068-25-1

The Reader contributes to the debate on the value of urban agriculture for sustainable urban development in a thematic way. Firstly definitions and presence of urban agriculture are explored. Next the policy and institutional options and implications are discussed. The second part of the Reader contains case studies from selected cities in Asia, Africa, Latin America and Europe, which pursue a system-oriented approach to understanding urban agriculture and its ecological, economic and food security impacts under different political, socio-economic and agroecological conditions.

As such the Reader is a compilation of articles and studies written by a variety of authors. The Reader is edited by a team of experts consisting of staff from GTZ and ETC-RUAF (the Resource Centre on Urban Agriculture and Forestry) and which includes sociologists, agronomists and an urban geographer.

The Reader is now also available in Spanish under the title "Ciudades en Crecimiento Cultivando Alimentos" and can be obtained from:

Nancy Sanchez; Asesora de informacion y comunicacion, Programa de Gestion Urbana-UNHABITAT, Garcia Moreno 751, Quito, Ecuador, Email: nancy@pgu-ecu.org, Tel: 593 2 282361/364; Price: US\$ 25 plus postage and packing

Recent Publications

Studies, reports etc.

Switzerland: broad-based EAWAG research project on urine separation and recycling

The Novaquatis project of EAWAG, Switzerland, deals with closing nutrient cycles, especially with the aid of separate urine collection, transport and treatment, and use of the nutrients contained therein for agriculture. The scenarios considered include, for example: urine collection in special, water-saving No-Mix toilets and stored in houses until it is transported at night by the existing wastewater infrastructure for treatment and production of anthropogenic fertiliser. The project is divided into 8 components that examine the marginal conditions and requirements of users, trade and industry, transport and treatment technologies, hygiene issues, opportunities of implementing the technology and its final products, as well as a case study in China.

!!! More information: <http://www.novaquatis.eawag.ch>

Asia: study on experience of decentral wastewater management

Although decentral wastewater management is becoming increasingly established worldwide as a possible alternative to conventional strategies, there is still relatively little documentation on practical experience. Since such management is already practised in many places – frequently unofficially, but not without success – GHK International in cooperation with Sandec, ITN and SERD has documented experience and requirements concerning decentralisation of actual disposal technologies, operation and maintenance, as well as decision-taking, in a study. The results are to be published, made accessible to local stakeholders, and to serve as basis for workshops at the AIT Bangkok.

!!! Infos: www.ghkint.com; parkinson@ghkint.com

WEDC-Study: "Share and Share Alike: Global Applied Research Network (GARNET)"

Since networking is a key aspect of all fields and one of the central tasks of the ecosan-project, we should like to draw your attention to this study by the Water, Engineering and Development Centre (WEDC). The subtitle "A report highlighting lessons learned during the facilitation of an applied research network in the water supply and sanitation sector" outlines the contents of the report, which is based on experience by GARNET and also contains hints on managing such a network .

!!! **Download:** http://www.gtz.de/ecosan/docs/Share_and_share.doc

Recent Publications

Conferences

Call for Papers for the ISWA World Congress 2003

The ISWA World Congress 2003 is being organized by ISWA and The Waste Management Association of Australia with the theme: Sustainability in a New World. It will provide opportunities for learning and expanding upon the accepted understanding of waste and environmental issues and discussing key issues facing today's solid waste industry.

The organizers invite the submission of abstracts that describe new contributions to solving the question of future sustainability and highlight areas such as innovation in the technical area, landfill management, new collection methods, product stewardship and market developments. Case studies are encouraged for submissions if they demonstrate successful approaches on issues that fellow professionals may be facing. Short papers for workshop presentations on technologies displayed in the exhibition are welcome.

Deadline for abstract submission is November 29, 2002

!!! **Information:** <http://www.iswa2003.net/>

Recent Publications

Online

Hippo Roller Website

In the last issue we reported on the "Hippo- Roller", a new, rolling, low-tech means of water transport from South Africa.

!!! **Now we have the website for information:**
<http://www.technews.co.za/hippo/Roller.htm>

Saniplan-website on peri-urban water and sanitation

One of the public health problems of the most fundamental kind is the absence of adequate community water supply and sanitation (wastewater disposal systems) for hundreds of millions of persons living in and around the world's largest cities, in the so-called peri-urban settlements.

In February 2001, a web site was launched to conduct research on this subject, and to promote improvement in peri-urban water supply and sanitation. The site is in four languages: English, Español, Français, Português.

Please visit it and feel free to provide feedback with your comments and suggestions. Also, please consider joining SANIPLAN to assist in the work proposed by the web site.

!!! **address :** www.saniplan.org

The result of the 1st VWF Evaluation

The Virtual Water Forum went into operation on June 3, 2001 and recently there has been a remarkable surge in activity. The first VWF evaluation was complete as of March 22, 2002.

This evaluation methodology and process will be improved in response to ongoing feedback received from participants. If you have any comments, please post them on

the "VWF Opinion Board" at the VWF:

!!! **Comments:** <http://www.worldwaterforum.org/for/en/fshow.436>

You can see the results of the 1st VWF Evaluation on the following web page:

<http://www.water-forum3.com/vwf/eva-1/> (English)

<http://www.water-forum3.com/vwf/eva-1/index-j.htm> (Japanese)

Recent events

UK: CIWEM Presidential Conference, July 2, 2002, London

Organizer: CIWEM

Theme: Sustainable Development – The Issues, Hopes and Aspirations for the Johannesburg Summit

The incoming President of the Chartered Institution of Water and Environmental Management (CIWEM), Jim Oatridge, Group Services Director, Severn Trent Plc, held his inaugural conference on the above mentioned theme. The conference provided an understanding of sustainable development issues and the water, sanitation and environmental improvement challenges that are being faced, and an opportunity for delegates to discuss their views with leading figures in the UK who will be attending the Summit later this year.

!!! **information:** <http://www.terencedalton.co.uk/ciwem1/events.htm>

Events, very soon...

Germany: Third International Conference on Water Resources and Environmental Research (ICWRER), July 22-25, 2002, Dresden

Organizer: Institute of Waste Management and Contaminated Site Treatment, Dresden University of Technology, Germany

Subtitle: Water Quantity & Quality Aspects in Modelling and Management of Ecosystems

Sponsors: UNESCO, UNEP, IAHR, IAHS, Associacao Portuguesa Dos Recursos Hídricos, SIL, IWA, Japan Society of Hydrology and Water Resources, European Environmental Agency

The Conference aims to facilitate communication amongst scientist, engineers and professionals working in the fields of ecological systems, sustainable management, development of water resources and the conservation of natural systems.

Conference topics are the following:

- Modelling water resources phenomena
- Water Resources Management
- Matter and particle transport in surface and subsurface flow
- Ecosystem research

The conference language will be English.

!!! **Information at:** <http://www.tu-dresden.de/fghhihm/normal/2nd-Announc-2.htm>
or mail to the **Conference Secretariat:** icwrer2002@mailbox.tu-dresden.de

South Africa: African Sanitation and Hygiene Conference, July 29 – August 1, 2002, Johannesburg

Organizers: WSSCC, Water and Sanitation Program (WSP) - Africa Region and the Department of Water Affairs and Forestry of South Africa

Getting close to the World Summit on Sustainable Development (WSSD), this conference will assess the state of sanitation and hygiene in Africa and raise its profile -

both at and after the WSSD - and strengthen leadership and advocacy for improved sanitation and hygiene in Africa. Its overall goal is to accelerate sanitation and hygiene work in Africa in accordance with the Millennium Development Goals.

Both English and French will be the languages of the conference.

Participants shall fulfil specific requirements for attendance: They may be from public or private sectors, civil society, external support agencies, academia or the media and they must be at a senior managerial or professional level, actively engaged in policy and implementation of sanitation and hygiene in Africa, willing and able to bring their knowledge and experience.

!!! For more information about how to apply mail to: confplan@iafrica.com

Events, coming soon

Sweden: World Water Week in Stockholm, August 11-17, 2002

Organizer: Stockholm International Water Institute, Stockholm, Sweden

Leaders and experts on water issues coming from governments, institutions, organizations and companies from all over the world will meet during that week to talk about water issues, facilitate dialogue, seek constructive solutions to actual problems, highlight outstanding achievements in the field and inspire future water leaders.

The week covers a long series of events, including especially seminars and events organized in collaboration with different organizations and institutions

As part of the Week, the **12th Stockholm Water Symposium** will take place from 12th to 15th August, 2002, under the heading:

“Balancing Competing Water Uses – Present Status and New Prospects”.

The Symposium deals with how our finite water resources are used for different purposes in different parts of the world, what will be needed to perform future balancing and to improve water use performance, and includes discussions on other specific issues.

!!! information: <http://www.siwi.org/sws2002/sws2002.html>

Turkey: 5th Specialised Conference on Small Water and Wastewater Treatment Systems, September 24-26 2002, Istanbul

Organizer: Istanbul Technical University and IWA

The Conference will cover a wide spectrum of scientific and technical aspects and will bring scientists and practitioners the opportunity to exchange information on high and low technology systems appropriate to private, municipal and industrial applications, as well as decentralised systems, landfill leachate treatment and other contaminated sites.

Major themes of the conference will be:

- Economic, legal, cultural, religious and social aspects on water reuse and treatment
- Wastewater treatment technology
- Design and operation issues
- Operation of Decentralized Systems

!!! Registration form is available at: www.ins.itu.edu.tr/cevre/small2002

Germany: 12th Conference for Science and Commerce,, 7 October 2002, Essen

Organisers: Chambers of Industry and Commerce for Essen, Mülheim an der Ruhr and Oberhausen zu Essen

Theme: Water as a resource - global challenge as an opportunity for industry and commerce

In environmental technology, Germany's industry is among the leaders on the world market, for example in the prevention of atmospheric pollution, in solid waste management and renewable sources of energy. The technological status of water management is also above average. So far, however, German business has only played a subordinate role in global marketing. That is why the Chamber of Industry and Commerce Essen invites you to this free lecture, exhibition and discussion forum .

Experts from research facilities and enterprises will report on the latest findings, products and development trends from the field of water management. The accompanying exhibition will provide an opportunity to make contact with experts and professionals from the fields of science and commerce.

!!! Programme: <http://www.essen.ihk.de>

Iran: The 2nd International Water Exhibition and Water and Sewage Installations, October 31 – November 4, 2002, Tehran

Organizer: Bureau of Public Relations and International Affairs in Iran, Ministry of Energy of Iran

Sponsors: Ministry of Energy, Water Resources Management Organization of Iran, and Iranian National Water and Sewage Engineering Company

Following the successful 1st Tehran International Exhibition of Water and Water and Sewage Installations in 2000, this event will present the latest technologies and products of water and sewage industry and will approach the development of financial cooperation, marketing development and commercial cooperation. It will congregate representatives of industry and researchers to present their achievements with regard to irrigation and drainage, control and development of water resources, construction and operation of urban water and sewage installations, treatment of industrial waters and waste waters, to be evaluated by experts within specific working groups. In addition, meetings and round tables will take place.

!!! information send an e-mail to: info@inwaterex.com

Belgium: 2nd Forum on Sustainable Development, September 12-13, 2002, Brussels

Organizer: European Economic and Social Committee (ESC) and the European Commission

This event aims to bring together as wide a range of stakeholders as possible and draw from their views and experiences.

Individual workshops are likely to focus on:

- climate change and the environment;
- the social dimension of sustainable development;
- economic growth and sustainable development; and
- policy coherence in sustainable development.

The final programme of this event will be released soon.

!!! For information about the European ESC, please contact: press@esc.eu.int or visit: <http://www.esc.eu.int>

Oman: International Conference on Wastewater Management and its effect on the environment in hot and arid countries, October 21-23, 2002, Muscat

Organizer: WHO's Regional Centre for Environmental Health Activities (CEHA) in cooperation with the Ministry of Regional Municipalities, Environment and Water Resources (MRME&WR)

The objectives of this International Conference are to identify the state of the art of techniques applied in the management of wastewater and the most suitable for hot and dry regions, as well as to transfer technical and international expertise in the field of wastewater to technicians and specialists in the country.

The conference will be held in English and Arabic.

!!! For more information contact Mr. Hilal Al Sinani:

<mailto:7436abid@omantel.net.om>

or write to: P.O Box 323, P.C: 113, Muscat, Oman; Tel: 00968/ 692564; Fax: 00968/ 693995

Spain: 2nd International Conference on Efficient Use and Management of Urban Water Supply – Efficient 2003, April 2-4, 2003, Tenerife, Canary Islands

Organizer: IWA Operation and Maintenance Specialist Group

This event will provide a forum for the exchange of the most recent ideas, techniques and experiences in all areas of water management that could contribute to more efficient water use. The technical, legal, environmental, economic and service quality perspectives will be examined in order to identify the main driving factors, problems and solutions.

Topics include: demand management and water conservation, water use and demand forecasting, system planning and management, drought and contingency management, efficiency in resource management, the connection between efficiency and water quality, economics and regulations, integrated management for water cycle in islands and developing world.

In addition to the participation of outstanding experts in each of the subjects, actual experiences and practical cases will be featured.

Authors are invited to submit their abstracts until September 30, 2002.

!!! details about the topics: <http://www.iwatenerife2003.org/>

Links and tips

[Links on GTZ ecosan homepage](#)

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

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

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

(ecosan@gtz.de)

[New Tips](#) (in alphabetical order)

Composting toilets

<http://www.solareco.com/articles/articles.cfm?ct=2400>

This link from the Solareco site provides general information on history and implementation of compost toilets and greywater systems

EcoSan Club

<http://www.ecosan.at/>

platform of international stakeholders and institutions approaching closed loop concepts in settlements; activities, information, links

Equaris Corporation

[http:// www.equaris.com](http://www.equaris.com)

development, distribution and installation of sustainable sanitation systems, in particular special separation and composting technology, USA

Forum on ecological sanitation

<http://segate.sunet.se/cqi-bin/wa?A1=ind01&L=et-loke>

discussion held after the 1st International Conference on Ecological Sanitation in November, 2001, Nanning, China.

IWA Foundation

<http://www.iwafoundation.org/>

The **IWA Foundation** was set up by IWA members to work with water professionals in lower income countries in their efforts to improve sanitation and water services and to meet the international development targets. Support in workshops, projects and collaboration with international partners. Provision of technical information service in four languages and free of charge.

saniplan

<http://www.saniplan.org>

saniplan provides a source of information on water supply and sanitation in peri-urban areas in developing countries for which it is running a research survey to collect these data. This website can be viewed in 4 languages.

Urimat

<http://www.urimat.com>

Water-free and chemical-free urinals, Germany

WASSERWUNDER

<http://www.wasserwunder.de>

specialist shop and mail order firm for water, health and the environment, Lübeck, Deutschland

Waste & Environmental Technologies

<http://www.wastech.com.hk/company/compfrm.htm>

manufacturer of space-saving on-site wastewater treatment systems; Hong Kong

Water Harvesting

<http://www.rainwaterharvesting.org/>

The National Water Harvesters Network (NWHN): projects, conferences, information, magazine around decentralised water management and possibilities for an increase of water availability through different resources.

WATERSAVE

http://www.cmhc-schl.gc.ca/en/imquaf/himu/wacon/wacon_067.cfm

Downloadable computer program to support planning, calculation and simulation of innovative, integrated domestic water systems for individual households and settlements.

Water Conservation Alliance of Southern Arizona

<http://www.watercasa.org>

The Alliance offers a broad palette of information, literature, practical assistance, products, active R&D and demonstration projects on the theme of water saving and re-usable management of natural resources at grassroots level; USA

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>

Newsletter

If you would like to contact the administrators of this newsletter please send an e-mail to:

owner-ecosan@mailserv.gtz.de

Your proposals for contributions to the newsletter, and any inquiries and comments you may have are always welcome.

Contact:

The GTZ ecosan team:

Christine Werner, Heinz-Peter Mang, Jana Schlick and Susanne Becker
GTZ

Div. 44, Water and Solid Waste Management

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

Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) GmbH

Postfach 5180

D-65726 Eschborn, Germany

Phone: ++49-6196-79-1740

Fax: ++49-6196-79-6105

christine.werner@gtz.de

heinz-peter.mang@gtz.de

jana.schlick@gtz.de

**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 which 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.