
Research on source-control sanitation in the *Institute of Wastewater Management and Water Protection* at *Hamburg University of Technology* **director**

Holger Gulyas

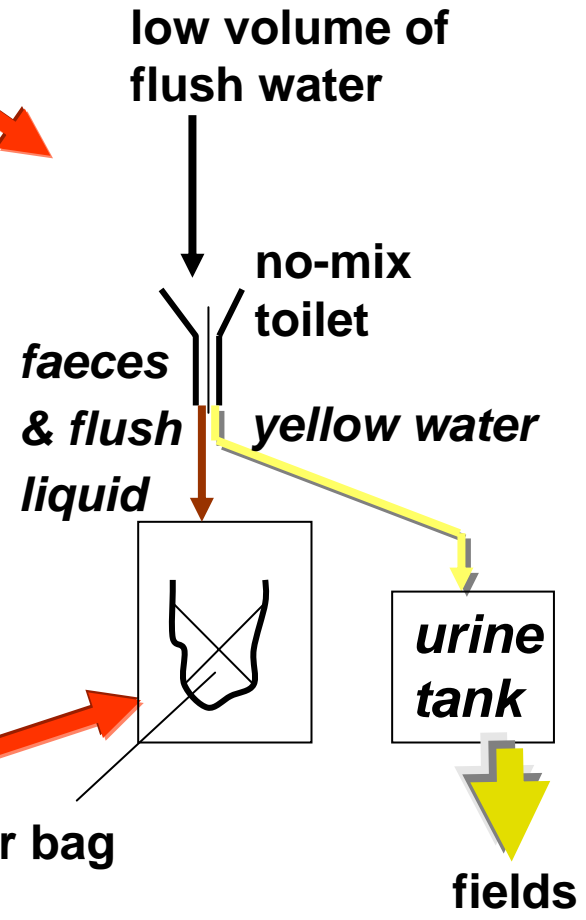


Source-control sanitation research within the **TUHH Institute of Wastewater Management and Water Protection**:

Stefan Deegener:
implementation of demonstration no-mix toilets in schools (RO, UA, UZ, ARM)

Franziska Meinzinger, Sarah C. Schreiner, Aleksandra Drewko:
planning, integration and costing of EcoSan in East African countries

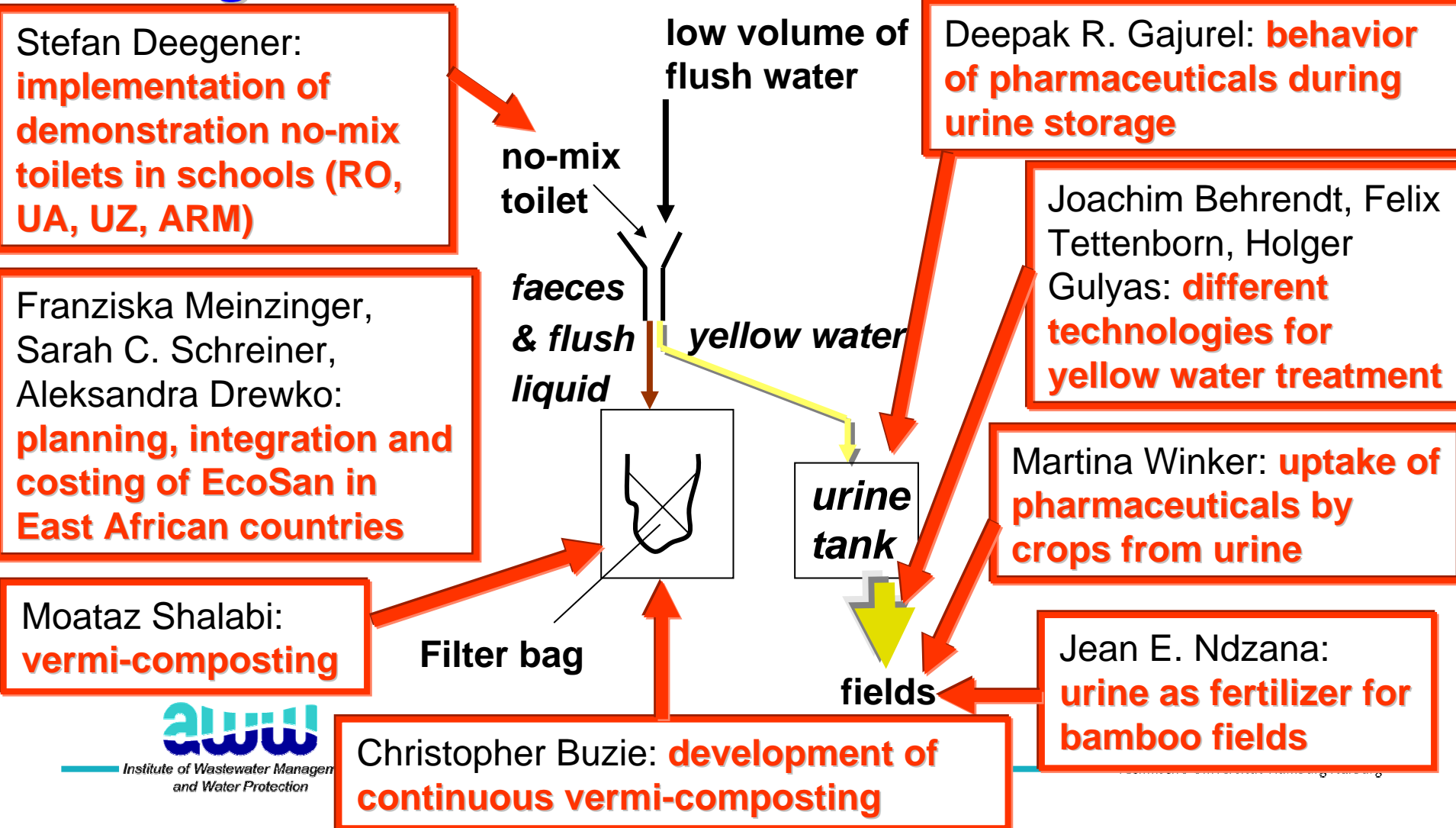
Moataz Shalabi:
vermi-composting



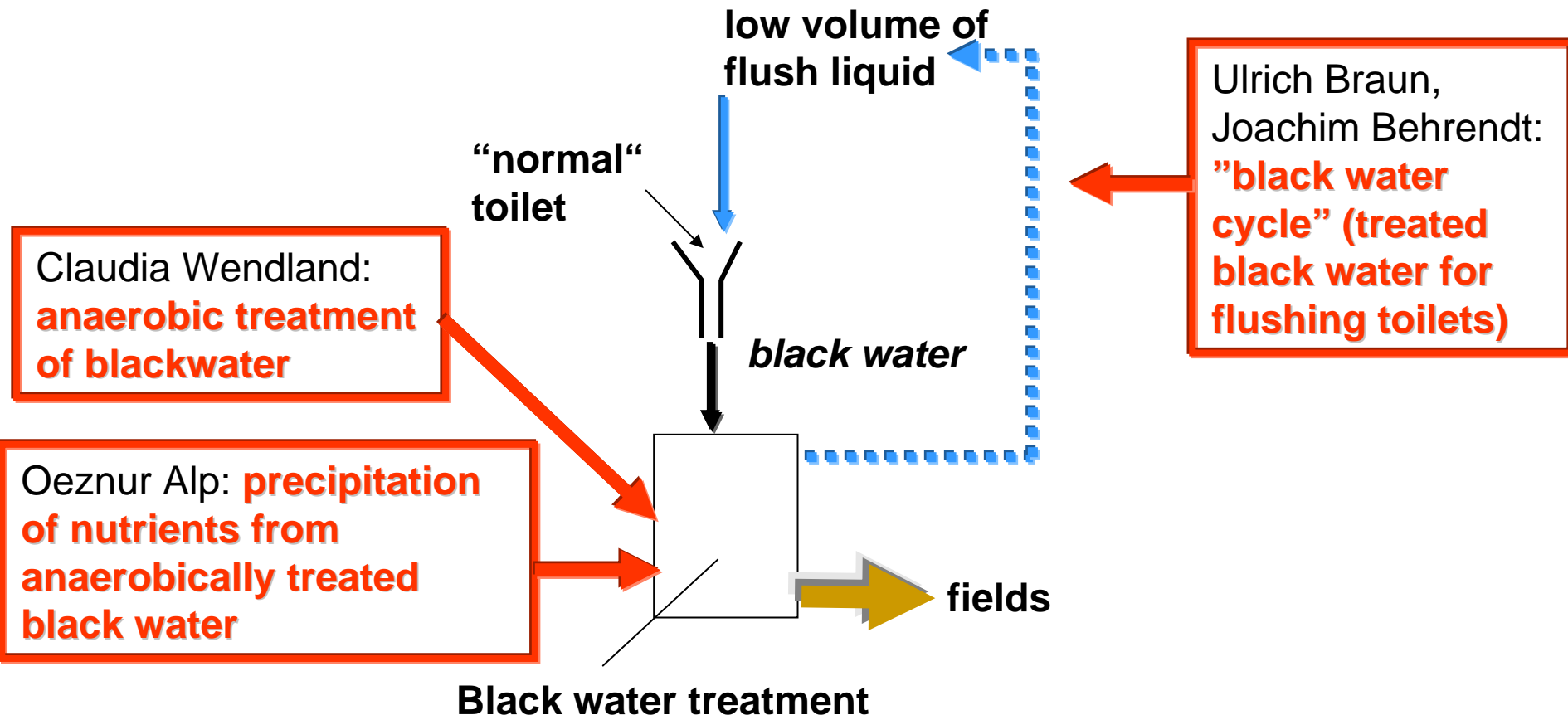
Shalabi (2006):



Source-control sanitation research within the **TUHH Institute of Wastewater Management and Water Protection:**



Source-control sanitation research within the **TUHH Institute of Wastewater Management and Water Protection:**



Source-control sanitation research within the **TUHH Institute of Wastewater Management and Water Protection**:

Fangyue Li: **pilot-scale treatment of greywater in a membrane bioreactor**

Tarek Elmetwalli: **anaerobic treatment of greywater**

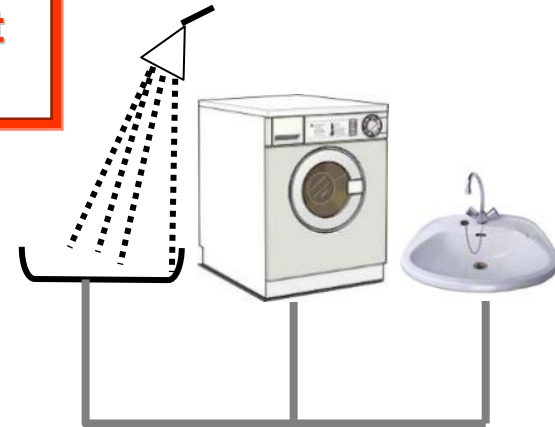
Holger Gulyas: **solar photocatalytic oxidation of biologically treated greywater**

Holger Gulyas: **analyses of greywater trace organics**

reuse

treatment

grey water



Funded EcoSan projects at the institute...



EU ASIALINK (“Development of training material on low-cost and sustainable sanitation”; 15.04.2003 – 14.04.2005; Holger Gulyas, Felix Tettenborn, Ralf Otterpohl)

EU Life and **Berlin Centre of Competence for Water**, Kompetenzzentrum Wasser Berlin, KWB (“Industrial style urine treatment for utilization”; 01.09.2004 – 30.06.2006; Felix Tettenborn, Joachim Behrendt, Ralf Otterpohl)

EU 6th Framework (“Resource-oriented sanitation concepts for peri-urban areas in Africa, ROSA”; 01.10.2006 – 30.09.2009; Franziska Meinzingen, Ralf Otterpohl)

EU 6th Framework (“Sustainable water management improves tomorrow’s cities’ health, SWITCH”; 01.06.2006 – 31.05.2009; Felix Tettenborn, Joachim Behrendt, Ralf Otterpohl)

EU 6th Framework (“Network for the development of sustainable approaches for large scale implementation of sanitation in Africa, NETSSAF”; 01.06.2006 – 30.11.2008; Christopher Buzie, Franziska Meinzingen, Ralf Otterpohl)

Funded EcoSan projects at the institute...

Rosa Luxemburg Foundation (“Potentials and constraints of the link of agriculture and ecological sanitation”; 01.04.2004 – 31.03.2006; Constanze Windberg, Ralf Otterpohl)

Alexander von Humboldt Foundation (“Grey water treatment in upflow anaerobic sludge blanket (UASB) reactor”; 01.09.2004 – 31.07.2006; Tarek Elmetwalli, Ralf Otterpohl)

Women in Europe for a Common Future, WECF (“Case study in Garla Mare, Romania: Ecological sanitation (EcoSan) toilet house in a primary school”; 15.04.2003 – 14.04.2005; Claudia Wendland, Stefan Deegener, Ralf Otterpohl)

WECF and **MAMA-86** (“Co-operation for sustainable rural development - improvement of sanitation in rural Ukraine”; 01.11.2003 – 28.02.2006; Stefan Deegener, Franziska Meinzinger, Ralf Otterpohl)

Deutsche Bundesstiftung Umwelt, German Federal Environmental Foundation (“Anaerobic digestion of black water and bio waste in laboratory-scale”; 01.03.2002 – 30.04.2005; Claudia Wendland, Joachim Behrendt, Ralf Otterpohl)

Deutsche Bundesstiftung Umwelt and **Linz AG** (“Source-control treatment and utilization of urine with respect to pharmaceutical residues”; 01.12.2004 – 30.11.2007; Martina Hammer, Joachim Behrendt, Holger Gulyas, Ralf Otterpohl)

Funded EcoSan projects at the institute...

German Research Foundation, DFG (“Investigation on the elimination of selected pharmaceuticals during storage, UV irradiation and ozonation of urine”; 01.06.2005 – 31.05.2007; Deepak R. Gajurel)

... and several scholarships of the **German Research and Education Ministry (BMBF)** for PhD students in the IPSWat program (“International Postgraduate Studies in Water Technologies”)



The Institute of Wastewater Management and Water Protection as a TUHH institute is belonging to the Free and Hanseatic City of Hamburg...

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Institute of Wastewater Management
and Water Protection



Thank you!

