



International  
Water Association

## 2<sup>nd</sup> IWA National Young Water Professionals Conference, Germany

“Membrane Technologies for  
Wastewater Treatment and Reuse“



Conference: 4–5 June 2007

Workshop: 6 June 2007, Berlin, Germany

### **Monday, 4 June 2007 – IWA NYWP Conference**

9.00-10.30 h

Session I:

Welcome address and key notes

Chairman:

L. Pawlowski

(Director, Berlin Centre of Competence for Water)

[www.IWA.kompetenz-wasser.de](http://www.IWA.kompetenz-wasser.de)

[www.MBR-Network.eu](http://www.MBR-Network.eu)

Organised by:

Sponsored by:

An initiative of:

**KOMPETENZZENTRUM**  
Wasser Berlin



## Overview of membrane projects in KWB

- ▶ A major R&D issue since creation of KWB
- ▶ Focus on MBR-technology
  - Decentralised treatment
  - Advanced biological nutrients removal (TP<50µgP/L, TN<5mgN/L)
  - Elimination of PhACs and EDCs
  - Fouling mechanisms
  - Technology evaluation
  - Advanced process control
  - Grey water
- ▶ Grown from local interest to international cooperation through 4 major projects: IMF, ENREM, AMEDEUS, MBR-TRAIN



## 4 major MBR-projects in KWB

- ▶ 2000 – 2003: IMF
  - „Immersed Membrane Filtration“
  - Process development and optimisation
  
- ▶ 2004 – 2007: ENREM
  - „Enhanced Nutrients Removal in MBR“
  - Demonstration phase, supported by EU Life-program
  - Construction and operation of small full-scale plant in Berlin
  
- ▶ 2005 – 2008: AMEDEUS
  - „Accelerated Membrane Development for Urban Sewage“
  - Coordination of EU consortium
  - Development of the MBR technology for municipal applications
  - Applied R&D and technological innovation
  
- ▶ 2006 – 2009: MBR-TRAIN
  - 3 Marie-Curie fellows dedicated to MBR investigations
  
- ▶ More information on projects: [www.kompetenz-wasser.de](http://www.kompetenz-wasser.de)



**ENREM**





**MBR-Network**

## MBR-Network: a coalition of EU projects



**AMEDEUS**

Accelerate membrane development for urban sewage purification (STREP, M€ 6.1)



**EUROMBRA**

Membrane bioreactor technology for advanced municipal wastewater treatment strategies (STREP, M€ 6.2)

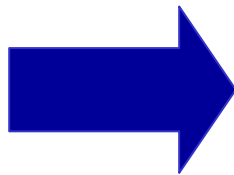


**MBR-TRAIN**

Process optimisation and fouling control in membrane bioreactors (Marie-Curie EST, M€ 2.4)



Energy efficient approach to MBR operation for decentralised wastewater treatment (INCO, M€ 1.2)

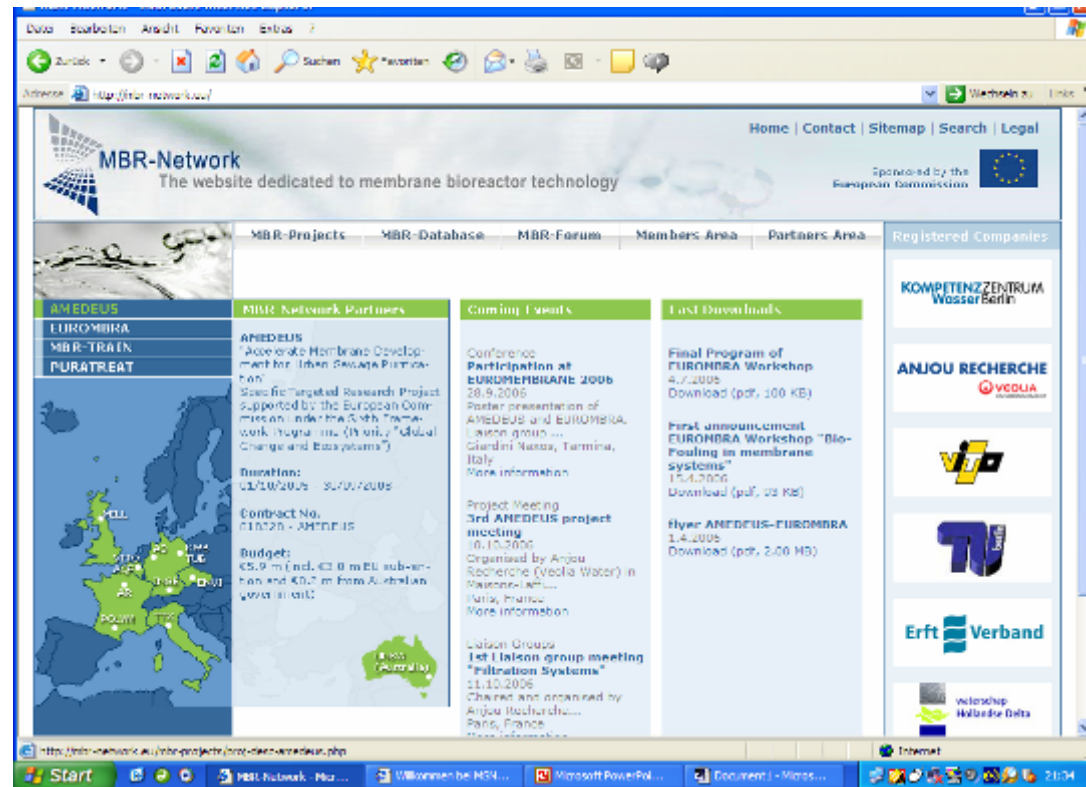


**MBR-Network**

**[www.mbr-network.eu](http://www.mbr-network.eu)**

**the website dedicated to MBR community**

- ▶ 1 year of existence
  - ▶ Close to **500 international members** (100 companies)
  - ▶ 600 literature references in data-base
  - ▶ Monthly Literature Scan
  - ▶ Discussion forum
  - ▶ Project reports
  - ▶ Articles
  - ▶ Events
  - ▶ Etc
- 
- ▶ **Up to 10,000 pages visited per month**



« The water crisis –like so many issues confronting our world– can only be fully addressed with the creative participation of young people everywhere. »

United Nations Secretary-General Kofi Annan  
NYC, August 9, 2006



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