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Technische
Universität
Braunschweig



EXCELLENCE CENTER FOR
DEVELOPMENT COOPERATION
SUSTAINABLE WATER MANAGEMENT

Summer School in Water & Wastewater Treatment Technologies

Focusing on Marmara Research Center (MRC) Experience

October 18-23, 2010



funded by



Federal Ministry
for Economic Cooperation
and Development

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DEUTSCHE ZUSAMMENARBEITUNG
FÜR WIRTSCHAFTS- UND SOZIALPOLITIK

Summer School in Water & Wastewater Treatment Technologies

Overview

The aim of this summer school is to provide a theoretical and practical overview of the principal aspects of environmental technology, focusing on Marmara Research Center (MRC) projects that include alternatives to conventional treatment technologies and their applications.

Objectives

At the end of the course, the participants will attain:

- knowledge on introduction to decentralized sanitation especially for small municipalities, remote areas and tourism areas,
- information about Ecological Sanitation (ECOSAN) and utilization of nutrients
- a thorough understanding of basic principles of wastewater characterization and laboratory analysis techniques
- understanding of segregated household wastewater characteristics, treatment and reuse
- an integrated understanding of basic principles of natural treatment, natural treatment types, hybrid systems and applications
- the ability to select an appropriate natural treatment system and operational requirements
- comprehensive basic principles and mechanisms of membrane bioreactor technology and operational requirements
- theoretical and practical principles of anaerobic treatment
- principles of composting and case application
- knowledge of electrochemical processes for water and wastewater treatment
- comprehensive knowledge on recovery of phosphorus by chemical precipitation from animal wastewater
- a sound knowledge of the strategies, management and practices about water sustainability and a national level research
- introductory information on multi-scale modelling of transport in natural water circulation systems

Schedule		
Monday	October 18, 2010	Arrival & Come together
Tuesday	October 19, 2010	Sustainable Water Management
Wednesday	October 20, 2010	Water and Wastewater Treatment Technologies
Thursday	October 21, 2010	MRC Experience on Sustainable Water and Environmental Management
Friday	October 22, 2010	Site visits: Sapanca Pilot Scale Natural Treatment Plant Food Industry Anaerobic Treatment Plant
Saturday	October 23, 2010	Excursion
Sunday	October 24, 2010	Departure

Course Organization

The courses include lectures, laboratory and case study sessions. There will be visits to the MRC pilot scale application site, and a food industry wastewater treatment plant.

The lectures will include computer presentation, and will be interactive.

Lecturers

Dr. Ahmet Baban, Prof. Dr. Bilsen Beler Baykal, Işıl Ataçoğlu, Elif Atasoy, Assoc. Prof. Dr. Eyüp Debik, Dr. Ebru Mehmetli, Dr. Selda Murat Hocaoğlu, Dr. İpek Çelen Erdem, Dr. Özer Orbay, Dr. Kemal Güneş, Gülsen Avaz, Dr. Arzu Olgun, Assoc. Prof. Dr. Fatma Telli Karakoc, Assoc. Prof. Dr. Dilek Ediger, Dr. Sinan Husrevoglu, Dr. Nur Findik Hecan

Target Audience

M.Sc. and Ph.D. students with an environmental science background who are interested in combining their scientific knowledge with real life project experiences and sustainable water management.

Number of participants

The number of participants is confined to 20.

Application

Please apply online until September 8, 2010: www.exceed.tu-braunschweig.de