BioNexGen

Clean Water.
Clear Solutions.

Development of the Next Generation membrane Bioreactor system

First Training Workshop:

"Membrane based Wastewater Treatment and Reuse"

8th & 9th of March 2012

LOCATION:

Centre de Biotechnologie de Sfax
Sfax
Tunisia

BioNexGen is co-financed by the European Commission under the 7th Framework Programme

BioNexGen is a Medium-scale focused research project co-financed by the European Commission within the scope of the 7th Framework Programme.

An international consortium consisting of 11 partners from 8 different countries is developing ***a new class of high efficiency membrane*** for Membrane Bioreactors (MBRs) in order to improve wastewater treatment and reuse in municipal, agricultural and a variety of industrial sectors in Europe and Middle East and North Africa (MENA).

For further information on ***BioNexGen*** please visit our website:

www.bionexgen.eu

OBJECTIVES of the Workshop

This first training workshop organised within the frame of ***BioNexGen*** will focus on basic principles and state-of-the-art of ***"Membrane based wastewater treatment and reuse"***.

Besides theoretical seminars and courses, this workshop will be combined with visits at MBR plants on site for becoming acquainted in-depth with relevant industrial membrane technologies for wastewater treatment.

This workshop will also aim at fostering new contacts and collaborations between European and MENA water engineering experts, researchers, stakeholders, municipalities and companies.

The workshop will be a full two-day event running from 8:30 a.m. to 5:30 p.m.

INFORMATION

The official language of the workshop will be English. Simultaneous translation will be not available.

No registration fee will be charged to the participants. However, travel and hotel expenses of the participants will remain at their own charge.

Participants are encouraged to present their own work at the poster session.

PROGRAMME: Thursday 8th of March

8:30-9:00 **Registration**

9:00-9:15 **Opening Ceremony and welcome by the Rector of Sfax University**

9:15-9:30 **Introduction to the Workshop**
Prof. Jan Hoinkis
Karlsruhe University of Applied Sciences, (Germany)

9:30-10:15 **Key Note Lecture: Membrane Technology Fundamentals - Design & Optimisation of Aerobic Membrane Bioreactors**
Prof. TorOve Leiknes
NTNU, Dep. Hydraulic and Environmental Engineering, (Norway)

10:15-10:45 **Water recovery, reuse and advanced products formulations with integrated membrane operations.**
Dr. Lidietta Giorno
Institute for Membrane Technology, (Italy)

10:45-11:10 **Coffee Break**

11:10-11:40 **Implementation of membrane filtration in the treatment of Olive Mill Wastewaters and a techno economical study**
Dimitrios Zagklis
Foundation for Research and Technology Hellas, (Greece)

11:40-12:10 **Membrane bioreactors for decentralised waste water treatment and reuse in North Africa: the results of PURATREAT EU project**
Prof. Sami Sayadi
Centre de biotechnologie de Sfax, Laboratory of Environmental Bioprocesses, (Tunisia)

PROGRAMME: Thursday 8th of March

12:10-12:40 Nanotechnologies and membrane engineering at the core of water and related questions in Mediterranean and Middle-East countries
Prof. Gilbert M. Rios
European Membrane House, (France)
12:40-14:00 Lunch Break
14:00-14:30 Membrane operations for treating dyes and VOCs contaminated waters
Dr. Alberto Figoli,
Institute for Membrane Technology, (Italy)
14:30-14:50 Sterilizing filtration of process water in pharmaceutical industry
Dr. Andrea Orlandi,
Millipore - Merckgroup (Italy)
14:50-15:10 Fluoropolymers for wastewater treatment
Emanuele Di Nicolò,
Solvay Specialty Polymers, Milan (Italy)
15:10-15:30 Modeling of bio and organic solutes separation from water by membrane processes
Dr. Giorgio De Luca,
Institute for Membrane Technology, (Italy)
15:30-16:00 Coffee Break
16:00-16:40 Real case studies:
Treatment of model industrial wastewaters by using MBR technology
Shamim Ahmed Deowan
Karlsruhe University of Applied Sciences, (Germany)
Anionic surfactant treatment by using MBR technology
Ines Friha
Centre de biotechnologie de Sfax, Laboratory of Environmental Bioprocesses, (Tunisia)
16:40-17:30 Poster Session
17:30-18:00 Open Discussion
18:00 Closure of day 1
20 :00 Evening Dinner

PROGRAMME: Friday 9th of March

8:30-9:00 Journey from the "Golden Tulip Hotel" to the Henkel MBR plant
9:00-10:00 Visit of the Henkel MBR plant for anionic surfactant wastewater treatment
10:00-12:00 Journey from the Henkel MBR plant to the textile wastewater treatment plant in Ksaar Helal region (near Monastir)
Coffee break at 10:45
12:00-14:00 Visit of a textile wastewater treatment plant (2000 m3/day) in Ksaar Helal region
14:00-16:00 Lunch at the Marina of Monastir
16:00-17:30 Return journey to Sfax
17:30 Closure of the workshop

ORGANIZING COMMITTEE

Prof. Jan Hoinkis
Karlsruhe University of Applied Sciences, (Germany)

Prof. Sami Sayadi
Centre de Biotechnologie de Sfax, (Tunisia)

Dr. Alberto Figoli
Institute for Membrane Technology, (Italy)

Dr. Sandrine Doretto
Steinbeis-Europa-Zentrum, (Germany)

REGISTRATION

Submit by Email

Participation at the ***BioNexGen*** workshop is subject to **registration**. Due to the limited capacity of the conference room, registrations will be accepted on a **"first come, first served"** basis. However, in case of over-subscription, limitation to the number of representatives for each institution may be requested.

Please register **before the 27th February 2012** by sending the registration form duly completed by email to: doretto@steinbeis-europa.de or by clicking on the button **"Submit by Email"** at the top right hand corner of this page.

Name	
First Name	
Title	
Company/ Organisation	
Email	
Postal Address	
Postal Code	
Country	
Telephone	

For the participants wishing to submit a poster, please contact:
Dr. Sandrine Doretto: doretto@steinbeis-europa.de
or go on ***BioNexGen*** website on the following page:
http://www.bionexgen.eu/events.html