

Immersed membrane bioreactors have been used commercially for almost 20 years. Market analyst reports indicate that the MBR market has experienced more rapid growth than any other advanced water treatment market sector, driven by the requirement to conserve freshwater supplies through wastewater recovery and reuse

The MBR courses developed by Cranfield University bring together relevant biological and membrane technology fundamentals, MBR process design and operation principles and the latest process development and operational experiences from around the world. It was the first course globally to bring all this knowledge together, has run successfully since 2000, and can be supplemented by the benchmark reference book *The MBR Book*.

MBRs – getting them working, keeping them running

The one-day seminar provides the latest information on design and operation of MBRs adopting a “bottom up” approach to the subject. It is intended for process scientists and technologists, consultants and researchers, though regulators, contractors and other stakeholders should also benefit from attending. The seminar opens with a brief historical perspective and continues with underpinning membrane and biological process technology fundamentals required to understand the MBR process. There follows an insight into MBR process design principles and factors impacting on costs. The remainder of the seminar focuses on commercial technologies and case studies, with invited guest speakers, finishing with a Q&A session. The emphasis of the course is very much on the practicalities of the process, and its operation and maintenance in maintaining throughput, rather than R&D.

The seminar leader, Professor Simon Judd, is a leading area specialist, and has authored/co-authored three books on membrane technology. The Centre for Water Sciences at Cranfield University is an internationally-recognised centre of excellence for applied water and wastewater treatment research and development, including MBRs. The close links of the Centre with industry means that extensive knowledge and experience of the main commercial systems has been gained over the course of the Group’s 18-year MBR research programme.

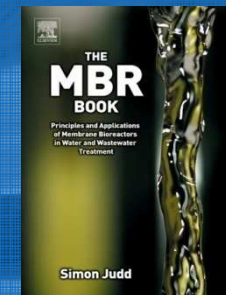
PROGRAMME

Time		Presentation
From	To	
9:30	10:00	Introduction & historical perspective
10:00	10:50	Membrane technology fundamentals
10:50	11:10	Coffee
11:10	12:00	Biotreatment fundamentals
12:00	13:00	MBR technology principles
13:00	14:00	Lunch
14:00	15:00	Commercial technologies
15:00	15:40	MBR operation and maintenance
15:40	16:00	Coffee
16:00	17:00	Case studies: municipal & industrial (*)
17:00	17:30	General Q&A and feedback
17:30		Disperse

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Further
information
available
from



Simon Judd is Professor in Membrane Technology at the Centre for Water Science, Cranfield University, and has been on the staff at the Centre for Water Science since 1992.



He has 19 years post-doctorate experience in academic and industrial R&D incorporating all aspects of water and wastewater treatment technology. Simon has an extensive network of contacts within the UK and European water industry which has arisen from managing 10 large collaborative R&D programmes, and many more smaller ones, over the past 15 years. He has procured and/or managed almost all biomass separation MBR programmes conducted within the School. He has been principal or co-investigator on three major UK research council-sponsored programmes dedicated to MBRs with respect to in-building water recycling, sewage treatment and contaminated groundwaters/landfill leachate, and was co-initiator of the multi-centred EU-sponsored EUROMBRA project. As well as publishing extensively in the research literature, Simon has co-authored three textbooks in membrane and MBR technology. Invited presentations at international membrane conferences have included six keynote papers. Simon has also provided consultancy, principally on MBR technology, to clients based in Europe, the Far East, the Middle East and North America.

Celebration place:

Sala de conferencias, Facultad de Ciencias
Universidad Autonoma de Madrid
C/ Francisco Tomás y Valiente, 7
28049 Madrid, Spain

Organizers:

Victor Manuel Monsalvo Garcia
Angel Fernandez Mohedano
Juan Jose Rodriguez Jimenez
Grupo de Procesos y Sistemas de Ingeniería
Ambiental, UAM
Simon Judd

Centre for Water Science, University of
Cranfield

Course registration:

General registration fees: 250 €
Remtavares and Consolider TRAGUA
members: 100 €

(VAT, documentation, coffee breaks and
lunch included)

Registration form:

<http://www.remtavares.es>

Bank transfer (concept: MBR + name):
(ES34) 0049-6704-58-2910002485 (Banco
Santander)

Deadline: 31st October

Fax.: 91 497 35 16

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SHORT COURSE

MBRs – getting them working, keeping them running

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DE MADRID

REMTAVARES



University Autonoma de
Madrid
06th November 2009



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