

## W-08 Membrane bioreactor for water reclamation: Design and operation

- Objective:** The course aims to inform senior technical and business managers on the latest technology development in MBR (membrane bioreactor) technology, including technical issues and engineering design and operation; illustrate industrial applications through case studies; and promote dialogue and exchange experiences with R&D researchers, government officials, plant managers and operators
- Contents:** This course is primarily concerned with the development of MBR for water reclamation. It covers the following topics:
- Overview of MBR for water reclamation - potential, advantages and limitations
  - Present and future MBR applications for water treatment
  - MBR concepts and design
  - Operation and maintenance implications; microbial behaviour; membrane separation; fouling control
  - Application examples and case studies
- Who should attend:** Researches, practitioners involved in development, senior managers, technical managers, environmental engineers from private and government bodies
- Courseware:** Selected slides and background documents as handouts and/or electronic files
- Certification:** Attendance certificate (subject to 80 percent attendance)
- Duration:** 2 lessons (2 hours each)
- Schedule:** (Please enquire)
- Costs:** \$ 300 per participant (inclusive of GST)  
*A discount of 20 percent applies to 3 or more participants from the same organization in the same course*
- Instructor:** Darren Sun, Associate Professor of the School of Civil & Environmental Engineering, NTU. Dr. Sun has authored or co-authored more than 100 scientific publications and has conducted short courses and seminars in Australia, Canada, China, Malaysia, Mexico, Myanmar, France, Singapore, Taiwan, UAE, and USA. His current research focuses on water treatment and reclamation using membrane technologies and converting hazardous and industrial wastes into value-added products
- Enquiries and registration:** DHI Water & Environment, tel. 6777 6330, e-mail: [info@dhi-ntu.com.sg](mailto:info@dhi-ntu.com.sg)