



The Institution of Engineers, Malaysia

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Talk on “Difficult to treat water and waste water, how tubular membranes can be the solution”

Organised by the Environmental Engineering Technical Division (ENETD, IEM)
BEM Approved CPD/PDP Hours: 2 Ref No: IEM16/HQ/084/T

Date: 5 April 2016, Tuesday
Time: 5.30 pm – 7.30 pm
Venue: C & S / TUS Lecture Rooms,
Second Floor, Wisma IEM, PJ
Speaker: Mr. Douglas Frick

SYNOPSIS

Polymeric Tubular UF membranes have been in the industry for more than 30 years, and are one the least understood products and processes. Today, polymeric tubular membranes are replacing hollow fiber UF in applications where conventional hollow fiber UF has been demonstrated to be problematic, such as high solids loading, high turbidity or highly variable influent. Tubular UF membranes can provide the same high quality permeate as hollow fiber UF, but eliminates many of the pre-treatment processes typically needed by the hollow fiber UF. This presentation provides insight into the processes and applications where tubular membranes have demonstrated superiority to hollow fiber UF. These applications include increased RO Recovery by cold-lime softening to remove hardness and silica, recovery of Ultra-Pure Water (UPW) by removal of grinding compounds in several semiconductor manufacturing processes, removal of heavy metals in plating and PCB industry, surface water processing where influent conditions are variable and pretreat to desalination where highly organic and variable seawater conditions exist. Membrane construction types, general system design, pretreatment and process descriptions as well as example case studies will be examined providing a guide of when the use of tubular membranes is most applicable.

BIODATA OF SPEAKER



Mr. Douglas is a Geological Engineering graduate from the University of Minnesota in 1978. After leaving Minnesota, Mr. Douglas worked for Schlumberger Well Services in Colorado and Wyoming, then management positions with Environmental Remediation Companies including Westinghouse, Thermo

Electron and International Technologies in Florida and Pittsburgh. He then spent ten years with US Filter that was purchased by Veolia and Siemens Water. His time with US Filter/ Siemens was spent almost exclusively with the tubular membrane products working with customers, systems and technologies. Mr. Douglas is currently the Director of Sales and Marketing for Porex Filtration, manufacturer of reusable, backwashable, chemically cleanable filter cartridges and tubular membrane filter elements.

ANNOUNCEMENTS TO NOTE:

- Preferential admission to talk shall be accorded to IEM members (pre-registration and online registration are NOT required).
- Non members may also attend the talk but will need to pay a registration fee of RM50 and an administrative fee of RM15. GST is inclusive.
- Members of affiliated organisations upon producing their membership cards will be exempted from paying registration fee. Administrative fee is nevertheless applicable.
- Limited seats are available on a "first come first served" basis (maximum 100 participants).
- IEM members are reminded to produce membership cards for confirmation of attendance (CPD purpose) failing which a fee of RM25 will be imposed. GST inclusive.

ADMINISTRATIVE FEE

- Kindly be informed that an administrative fee of RM15 is payable for talks organized by IEM. GST is inclusive.
- The fee would be used to cover overhead costs, building maintenance expenses as well as contribute to Wisma IEM Building Fund.
- All contributions will be deeply appreciated by IEM.
- Student Members are however exempted.

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