

**Training Workshop on Reverse Osmosis (RO)
Systems: Optimal Design, Operation and
Maintenance (O&M)
24 to 27 April 2011, Park Inn
Muscat-Sultanate Of Oman**

The workshop is designed to impart basic and fundamental knowledge of RO technology to participants with emphasis on design, RO optimization, selection and operation of RO plant's components.

Participants of this course will have a step by step understanding of RO process fundamentals, pretreatments, RO membranes, design and requirements for successfully operating and maintaining RO plants. Participants will learn to evaluate scaling; fouling potentials and chemical attack characteristics of different feed waters and to design a sound and robust RO units system to achieve trouble free for good operation. In addition, this course will enable the participants to:

1. Check whether the current project design meets all the requirements of the RO process for smooth and trouble free operation.
2. Understand O&M requirements and to meet them by providing resources – manpower, tools and training.
3. Check completeness and correctness of the equipments installation and commissioning at the time of taking over the plant.
4. Review plant performance with respect to expected and actual requirements and take appropriate corrective and preventative actions.
5. Use the experience gained for benefiting in the future projects.

Workshop Synopsis:

- Introduction to Membrane Water Treatment
- Water Chemistry
- RO Fundamentals
- RO Membranes
- RO Pretreatment & Post treatment
- Scaling, Fouling, Controls and Chemical Cleaning
- RO Process Parameters, Process Design and Performance
- RO Process Operation, Data Normalisation and Process Troubleshooting
- Group project on design of RO system (calculation by hands and using design software)
- RO Plant visit

Who should attend?

All water specialists and technicians are invited to participate on the training course particularly those are involved in the following different topics:

- **Desalination plants installation, operation and maintenance.**
- **Water supply field**
- **Waste water collection, treatment and operation**
- **Water quality tasks**
- **Water resources assessment and management**

Spot lights on the Lecturer

NAME : SATHANANTHAN SELVADURAI

Had a **B.Sc Eng (Hons)** University of Ceylon and **M.Sc** University of Newcastle Upon Tyne UK, **ENVIRONMENTAL ENGINEERING**. He is a member of several institutions; Institution of Civil Engineers (U.K), Institution of Engineers Australia, Senior Member of the Institution of Engineers Singapore and member of Chartered Institution of Building Services Engineers UK.

PROFESSIONAL ASSOCIATIONS

Member of the Environmental Engineering Society of Singapore (**IESS**), Council Member of Environmental Engineering Society of Singapore and Member of the International Water Association (**IWA**)

Work experience:

9 Years of working experience in the design construction supervision of water treatment plant, wastewater treatment plants, Drainage systems, pumping stations. Design and construction experience also includes four years with Camp Dresser & MaKee International Inc in Singapore.

Academic activities:

currently employed as a senior lecturer at Ngee Ann Polytechnic, where I teach the following modules to full time students.

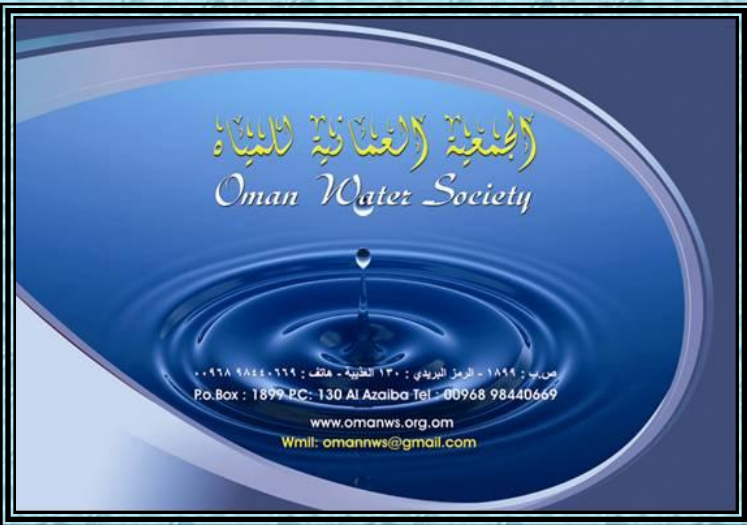
- **Water Treatment. (Conventional treatment systems)**
- **Water Supply and Distribution systems.**
- **Water Quality analysis.**
- **Membrane Science and Technology.**
- **Water reclamation and Reuse.**

He also conducted part-time training courses for adult learners from the Industry on the followings

- **Diploma course on Water Technology for Public Utilities Board (PUB) Singapore.**
- **Membrane application in water & Wastewater treatment**
- **Water treatment technology**

He also, conducted regular training courses on water technology for engineers for UNDP and in Water Resources University in Hanoi Vietnam, and at the Institute of Technology Cambodia.

Organizer



Sponsor

THE CONSORTIUM Sembcorp Salalah Power & Water Company is 60% owned by Sembcorp Utilities, a wholly-owned subsidiary of Sembcorp Industries, and 40% owned by the Oman Investment Corporation.

The Salalah Independent Water and Power Plant will also be operated and maintained by a joint venture company, Sembcorp Salalah O&M Services Company, which is 70% owned by Sembcorp Utilities and 30% owned by Oman Investment Corporation.

**Training Workshop on
Reverse Osmosis (RO) Systems:
Optimal Design, Operation and
Maintenance (O&M)
24 to 27 April 2011, Park Inn
Muscat-Sultanate Of Oman**

CONTACT

Oman Water Society
P.O. Box : 189 P.C: 130 Azaiba
Tel : +968 98440669
Fax: +968 24613248
Email : omanws@gmail.com

A/C NO. 0327014233870018 (Bank Muscat)

جمعية علوم وتكنولوجيا المياه
Water Science and Technology Association



Venue

**REGISTRATION FORM
REGISTRATION FEES
100 R.O.**

Surname / Name	
Company / Institute	
Address	
Phone	
Fax	
Email	

