

## MEMBRANE DESALINATION TECHNOLOGIES IN PRACTICE

### **MASAR WORKSHOP AGENDA**

2007 IDA WORLD CONGRESS, , Maspalomas, Gran Canaria, Spain

Friday, October 26, 2007, 0800-1700

Instructors: **Eng. Mohamad Amin Saad & Dr. Irving Moch, Jr.**

<http://www.masar.com/training/masarworkshop.html>

<b>WELCOME, INTRODUCTIONS &amp; AGENDA/CD REVIEW</b>	0800-0815
<b>MEMBRANE PLANT DESIGN CRITERIA</b>	0815-0915
FEED WATER SOURCE SELECTION	
OPEN SURFACE INTAKES	
GROUNDWATER & BEACH WELLS	
MEMBRANE PROCESS SELECTION	
UF/MF PRETREATMENT SYSTEMS	
DESIGN INTEGRATION	
<b>OPERATION MONITORING &amp; OPTIMIZATION</b>	0915-1015
DATA AUTOMATION & REPORTING TECHNIQUES	
RECOVERY RATIO OPTIMIZATION	
MEMBRANE MAINTENANCE	
<i>COFFEE BREAK</i>	1015-1030
<b>PERFORMANCE EVALUATION &amp; OPTIMIZATION</b>	1030-1115
ASTM NORMALIZATION & TRENDING	
REAL-TIME OPTIMIZATION & FOULING MEASUREMENT	
ASTM TRENDING VS. REAL-TIME MONITORING	
<b>MEMBRANE FOULING PREVENTION &amp; CONTROL</b>	1115-1230
FOULING AND SCALING POTENTIAL	
BIOLOGICAL FOULING & CONTROL - <i>THE AFTER-GROWTH</i>	
COLLOIDAL FOULING	
FOULING PREVENTION TECHNOLOGIES & STRATEGIES	
<i>LUNCH BREAK</i>	1230-1330
<b>OPEN FORUM DISCUSSION</b>	1330-1430
<b>ENERGY CONSERVATION</b>	1430-1500
ENERGY RECOVERY DEVICES	
ENERGY CONSUMPTION COMPARISON - <i>MEMBRANE VS. THERMAL</i>	
<i>COFFEE BREAK</i>	1500-1515
<b>MEMBRANE DESALINATION ECONOMICS</b>	1515-1545
SEAWATER COST OVERVIEW - INTAKES & SEAWELLS	
COST OF WATER COMPARISON - <i>MEMBRANE VS. THERMAL</i>	
COSTONG MEMBRANE & THERMAL WATER TREATMENT PLANTS	1545-1600
<b>DESIGN, OPERATION &amp; MAINTENANCE PRACTICAL GUIDELINES</b>	1600-1630
<b>OPEN DISCUSSION, FEEDBACK &amp; QUESTIONS</b>	1630-1700
<b>CERTIFICATE AWARDS &amp; CONCLUSION</b>	1700