

Preliminary Programme

EuroMed 2010

Cooperation among countries of the North and South Mediterranean

3–7 October 2010, Tel Aviv, Israel

Sunday 3 October

08:30–12.30 Workshop on MBR Technology

12:30–17:00 Lunch and ERI–Dow Seminar

19:00 Conference welcome reception

Monday morning 4 October

9:00 Opening ceremony

Introductions

Lute Broens, President, European Desalination Society

Pinhas Glueckstern, President, Israel Desalination Society

Benjamin Ben Eliezer, Israel Minister of Industry, Trade and Labour

Uzi Landau, Israel Minister of Infrastructure

Uri Shani, Chairman of the Water Authority

Andrew Standley, Ambassador of the Delegation

of the European Commission to Israel

Luigi Mattioli, Ambassador of Italy in Israel

Masaru Kurihara, President, Asia Pacific Desalination Association

Guo Youzei, President, China Desalination Association

10:45 Opening of the exhibit and coffee break

11:15 The Way Forward — Water and Renewable Energy

Italian Session

Corrado Clini, Director General, Italian Ministry of the Environment,
Land and Sea, Chairman

Corrado Sommariva, ILF Consulting Engineers

Stefano Boccaletti, Scientific Attaché, Embassy of Italy in Israel

Diego Barba, University “Campus Biomedico di Roma”

Giorgio Micale, Andrea Cipollina, University of Palermo

Arnold Goldman, Founder and Chairman, Brightsource

Gadi Toren, Investment Partner, Robert Bosch,

Venture Capital GmbH

Keynote

Menahem Elimelech – Recent developments in forward osmosis

Monday afternoon
4 October 2010

14.00–15.30 Chair	Session 1 Regional / Case studies <i>Veronica Garcia Molina, Debora Anahory</i>	Session 2 Biofouling <i>Eli Kotzer</i>	Session 3 Contaminant removal <i>Yoram Oren</i>	Session 4 Economics/Policy <i>Menahem Priel</i>
14.00	43 Five years of operational experience in the world's largest SWRO desalination plant <i>Verónica García Molina, Micha Taub, Leon Yohay, Markus Busch</i>	44 Long-term preservation of reverse osmosis membranes with non oxidising biocides — comparison with SMBS treatment <i>K. Majamaa, U. Bertheas, R. Levy, F. Finlayson</i>	2 Boron removal from seawater by electro-chemical treatment as part of water desalination <i>E. Ofir, V. Gitis, K. Mueller, A. Brenner</i>	148 Renewable desalination: Private Public Partnership policies to encourage development of sustainable desalination in the Middle East <i>Corrado Sommariva</i>
14.30	65 Techno-economic analysis of combined concentrating solar power and desalination plant configurations in Israel and Jordan <i>R. Olwig, T. Hirsch, H. Glade, L. Schmeken, S. Will, A. Ghermandi, R. Messalem</i>	39 An experimental approach to explore antifouling- and cleaner-systems for desalination membranes <i>M. Rückel, S. Nied, G. Schürmann</i>	83 Removal of heavy metals by immobilized magnetite nano-particles <i>Adva Zach-Maor, Raphael Semiat, Hilla Shemer</i>	155 Desalination of seawater – Aspects of environmental law <i>Tzvi Levinson</i>
14.50	167 Ashkelon Desalination Plant – 5 years of operational experience <i>Shai Dreizin</i>	40 Biofouling control in Industrial RO systems using early warning fouling sensors and biocidal agents <i>M.J. Boorsma, S. Dost, S.Klinkhamer, J.C. Schippers</i>	164 Use of selective electrodialysis devices for removal of nitrates and salinity from water sources and effluents <i>Neta Merchav</i>	7 Brackish vs. seawater desalination: How to compare <i>Val Frenkel</i>
15.10	112 Field experience with a 20,000 m ³ /d integrated membrane seawater desalination plant in Cyprus <i>Eduard Gasia Bruch, Peter Sehn, Markus Busch, Verónica García Molina, Simon Urquhart, Ofer Raize, Mino Negrin</i>	30 The role of elastomeric gasket materials in reducing membrane biofouling <i>Stephen Morrison</i>	13 Selection of optimum formulation for biosorbing lead and cadmium from aquatic solution by using PVA-SA immobilizing Lentinus edodes residue <i>Dan Zhang, Haijiang He, Wei Li, Pei Ma, Dong Yu</i>	125 Economic feasibility study of cases on seawater desalination systems coupling to a low temperature nuclear heating reactor <i>Li Tian, Jilin Guo, Li Cao, Yongqing Wang</i>
15.30–16.00	Coffee break			
16.00–17.30 Chair	Session 5 Regional / Case studies <i>Carlos Garcia</i>	Session 6 Biofouling <i>Katarina Majaama</i>	Session 7 Contaminant removal <i>Rafi Semiat</i>	Session 8 Pre-treatment/Post-treatment <i>Markus Busch</i>
16.00	82 Desalination for the City of London <i>Frans Knops, Julio Zorilla</i>	102 The effect of UV pre-treatment on biofouling of BWRO membranes: A field study <i>T. Harif, H. Elifantz, E. Margalit, M. Herzberg, D. Minz</i>	91 Ozone-membrane hybrid process for arsenic removal in Iron containing water <i>Joon-Wun Kang, Yeo-Joon Yoon, Yun-Young Hwang, Min- Kyu Ji, Byong-Hun Jeon</i>	15 Comprehensive investigation of the performance of a novel post-treatment process for desalinated water under various operational conditions <i>Liat Birnhack, Ori Lahav</i>
16.30	86 Commissioning of the Gold Coast plant - lessons learned <i>Thys McCurdy, Fred Grondhuis</i>	59 Biofouling formation in membrane systems; biocides and complementary treatments for biofouling control; techniques to monitor biofilm growth <i>C. zum Kolk, W. Hater, A. Schirmer</i>	37 Removal of Cd (II) from solution by PVA-SA immobilizing Lentinus edodes residue <i>Dong Yu, Wei Li, Dan Zhang, Haijiang He, Pei Ma, Yang Cao</i>	163 A new approach for a membrane pre-treatment process in desalination using electrochemical reactors <i>David Sherzer</i>
16.50	162 Desalination as a key component for the southern Israeli coastal aquifer rehabilitation and restoration plan <i>Adva Avital, Svetlana Lumlesky, Derek Moss, Israel Gev, Ido Negev, Hagit Oron</i>	141 Pretreatment options to reduce biofouling potential in seawater reverse osmosis systems: A comparison of metal based and biopolymeric coagulants <i>M.D. Kennedy, Jin Wei, G.L. Amy, J.C. Schippers</i>	52 Meso-structured and amorphous zirconium phosphate for efficient removal of fluoride <i>R.K. Dey, S.K. Swain, Tanushree Patnaik</i>	25 Microbial evaluation of sand- and micro-filtration systems as pretreatment for seawater reverse-osmosis desalination using culture-independent analysis based on the 16S rRNA gene <i>Hyokwan Bae, Seongpil Jeong, Heesun Kim, Seockheon Lee</i>
17.10	159 Remineralisation of desalinated water of Laayoune RO plant by lime saturator <i>F. El Azhar, N. Zouhri, S. Ait Habziz, M. Hafsi, S. Belhamidi, M. Taky, A. Elmidaoui</i>	113 Microbial diversity and biofilm formation on the membrane in membrane distillation system operating on seawater over an annual cycle <i>M. Krivorot, A. Kushmaro, Y. Oren, J. Gilron</i>	157 Pre-desalination with electro-membranes for SWRO <i>J.W. Post, H. Huiting, E.R. Cornelissen</i>	38 Coagulant optimization test for the membrane pre-treatment process in desalination <i>Seongpil Jeong, Yonghae Park, Seockheon Lee</i>
17.30	170 Successful 10 year BOOT contract nears completion <i>Fredi Lokiec, David Moxey</i>			

Monday evening 4 October

18:00–19:00 Reception

19:00 Water in the Region

Gustavo Kronenberg, Chairman

Andrew Standley or Robert Krengel, European Commission, Co-chairman

Introduction

Avishay Braverman

Water for Gaza

Fadel Kawash

**Cooperation as a tool for securing additional water
for the Palestinians**

Abdelrahman Tamimi

Small scale BWRO systems as a solution for water scarcity in Gaza Strip

D. Lisitsin, A. Chickvashvili, O. Arganovsky

Water in Jordan

HE Eng. Sa'ad Abu Hammour, Jordan Valley Authority Secretary General

Prof. Mousa Mohsen

Water Master Plan for the Middle East 2040

Shimon Tal

The value of water:

Optimizing models for sustainable management, infrastructure planning, and conflict resolution

Franklin Fisher

Discussants:

Gary Cohen, USAID

Izzedin Abuelaish, Toronto University

Tuesday morning

5 October 2010

8.30–10.00 Chair	Session 9 Brackish water Santi Talo	Session 10 Brine discharge Veronica Garcia Molina	Session 11 MBR Rami Messalem	Session 12 Energy recovery Miki Shnitzer
8.30	110 Initial pilot data from 120 m ³ /d flow reversal pilot plant operating on brackish well water <i>J. Gilron, Y. Goldkine, G. Mizrahi, N. Daltrophe, E. Korin, D. Peled, N. Perlmutter, Y. Gelman, I. Ben-David, M. Priel, X. Lu, E. Kujundzic, A. Greenberg</i>	87 Project for the development of innovative solutions for the brines from desalination plants <i>Domingo Zarzo, Elena Campos</i>	28 Comparison of the operation process of an MBR plant with and without chemical optimization <i>Thomas Wozniak</i>	32 A new approach for retrofits: Expansion of the Palmachim seawater RO plant <i>A. Hermony, J.M. Pinto, R.A. Bosleman</i>
9.00	55 Improved aquifer characterization and the optimization of the design of brackish groundwater desalination systems <i>Robert G. Maliva, Thomas M. Missimer</i>	21 3D physical modelling in a wave flume of brine discharges on a beach <i>F Vila, Antonio Ruiz-Mateo, Macarena Rodríguez, Manuel Antequera, Ana Lloret</i>	84 The effect of solids retention time on the adherence, viscoelastic properties, and fouling propensity of extracellular polymeric substances in a membrane bioreactor <i>A. Sweity, Wang Ying, G. Oron, M. Herzberg</i>	33 Enhancing performance and flexibility while reducing the environmental impact of seawater RO plant retrofits and expansions with isobaric ERDs <i>Juan Miguel Pinto, Jeremy Martin</i>
9.20	109 7 years operation of BWRO plant with raw water from coastal aquifer for agriculture irrigation <i>Carlos García, Francisco Molina, Domingo Zarzo</i>	23 Control and management of brine disposal for inland desalination plants <i>Arina Shulman, Inbal David, Elena Gelman, Menahem Priel</i>	88 AirLift MBR for municipal wastewater treatment: Lower TCO through higher flux and lower footprint <i>Harry Futselaar, Rob Borgerink, Patrick van Lierop, Rick Rosberg</i>	126 Design optimization of large SWRO plants utilizing time-of-use (TOU) energy prices <i>Pinhas Glueckstern, Deborah Anahory</i>
9.40	54 Capacitive deionisation of water solutions <i>Yu.M. Volkovich, D.A. Bograchev, A.Yu. Rychagov, D. Park</i>	134 Physical modelling of Venturi eductors compared with conventional diffusers in brine discharges <i>A. Álvarez García, E. Consuegra Alcalde, M. Antequera Ramos, A. Lloret Capote, A Ruiz Mateo</i>	99 The effect of pH on the adherence and fouling propensity of extracellular polymeric substances in a membrane bioreactor <i>A. Sweity, W Ying, G. Oron, M Herzberg</i>	160 Closed circuit desalination – a new low energy high recovery technology without energy recovery <i>Avi Efraty, Ran Natanel Barak, Zviel Gal</i>
10.00–10.30	Coffee break			
10.30–12.00 Chair	Session 13 SWRO Mark Wilf	Session 14 Carbon footprint/Brine discharge	Session 15 Equipment Miriam Faigon	Session 16 Solar / Wind Hemia Hasid
10.30	22 Design optimization of large SWRO plants to comply with high quality product requirements <i>P. Glueckstern, M. Priel</i>	106 Carbon footprint of seawater reverse osmosis pre-treatment: A computational tool <i>Matan Beery, Adam Hortop, Frans Knops, Jens-Uwe Repke</i>	53 Pressure vessel for 16 and 18 inch RO membranes <i>Tobias Haarburger, Nadav Shachaf</i>	16 Field results in Namibia and Brazil of the new solar desalination system for decentralised drinking water production <i>K. Schwarzer, M.E. Vieira da Silva, T. Schwarzer, B. Hoffschmidt</i>
11.00	94 A dynamic model for the control of a seawater reverse osmosis desalination process <i>Young Geun Lee, Adrian Gambier, Essam Badreddin, Joon Ha Kim</i>	1 Carbon footprint analysis of desalination facilities in Israel <i>Clive Lipchin, Edward Boone, J. Paul Brooks</i>	152 The contribution of air valves installations to a wide variety of problems in desalination plant <i>Ami Farhi</i>	24 Steady-state mathematical modeling of a solar multi-effect desalination plant at the Plataforma Solar de Almería <i>P. Palenzuela, D. Alarcón, J. Blanco, G. Zaragoza, E. Guillén, M. Ibarra</i>
11.20	6 How to design a small SWRO system: California experience <i>Val Frenkel</i>	26 A brine evaporative cooler/concentrator for autonomous thermal desalination units <i>A. Cipollina, L. Gentile, G. Micale, L. Rizzuti</i>	68 Material selection and corrosion in seawater reverse osmosis desalination plants <i>Nicolas Larché, Philippe Dézerville</i>	29 Seawater desalination (RO) as a wind powered industrial process - Technical and economical specifics <i>J. Käuffer, K. Ruediger, R. Pohl, H. Sade</i>
11.40	45 The use of computer aided techniques for RO desalination layout design <i>Amos Bick, Gideon Oron</i>	168 Testing the first integrated energy recovery and system control device under SWRO conditions <i>Eli Oklejas, Ryan Kitzmiller, Anca Seisan, Jason Hunt</i>	132 Decreasing seawater reverse osmosis energy cost by improved membrane rejection and active area <i>Veronica Garcia-Molina, Markus Busch</i>	144 The effect of wind speed fluctuations on the performance of a directly-driven nanofiltration/reverse osmosis membrane system <i>G.L. Park, A.I. Schäfer, B.S. Richards</i>
12.00–13.00	Lunch			

Tuesday afternoon

5 October 2010

13.00–15.30 Chair	Session 17 Fouling/Scaling <i>Jan Schippers, Maria Kennedy</i>	Session 18 MED/MSF <i>Corrado Sommariva, Fredi Lokiec</i>	Session 19 Solar <i>Rami Messalem</i>	Session 20 Wastewater <i>Yelena Gelman</i>
13.00	18 Silica scaling on reverse osmosis membranes - investigation and new test methods <i>Wolfgang Hater, Christian zum Kolk, Claire Dupoiron, Gerd Braun, Timo Harrer, Thomas Götz</i>	127 On uncertainties in the design of multiple-effect distillers <i>Louisa Schmeken, Katharina Boeck, Heike Glade, Stefan Will</i>	154 Photovoltaic reverse osmosis – Feasibility and a pathway to develop technology <i>Amy M. Bilton, Leah C. Kelley, Steven Dubowsky</i>	150 Optimal use of membrane processes for treating wastewater reused in cooling towers <i>Daniel Hoffman, Amnon Zfati</i>
13.30	74 Successful antiscalant application - From a laboratory model to field optimization at higher pH and sea water temperature <i>Wiebo van der Wal, Gilles Delaisse</i>	66 CapWa — Capture of evaporated water <i>G. Jinjikhshvily, D. Yitzhak, D. Sherban, L. Daal</i>	143 Preliminary assessment of a solar energy driven membrane distillation system <i>E. Guillén, J. Blanco, D. Alarcón-Padilla, G. Zaragoza, P. Palenzuela, M. Ibarra</i>	64 Pilot plant for domestic effluent filtration and desalination for sustainable effluent utilization <i>Ilan Katz, Raphael Semiat, Carlos Dosoretz, Nir Goldshtein, Josef Hagin</i>
13.50	135 Low electrode area electrochemical scale removal system <i>David Hasson, Georgiy Sidorenko, Raphael Semiat</i>	123 Thermodynamic behaviour of a multi-effect distillation experimental unit with horizontal-tube falling film evaporation <i>Luopeng Yang, Shengqiang Shen, Huawei Hu</i>	47 Technical-economical evaluation of the operation of a solar-powered NF desalination plant for sustainable agriculture <i>A. Ghermandi, A. Kudish, R. Messalem</i>	57 Research on pre-denitrification double-layer media biological aerated filter in municipal wastewater treatment <i>Hong-bo Hu, Hong-jun Han, Yu-fei Li, Bing Wang</i>
14.10	115 The effect of surface organic functional groups on calcium phosphate mineralization in membrane-based water treatment systems <i>Z. Steiner, H. Rapaport, Y. Oren, R. Kasher</i>	138 An analytical study of falling film outside a horizontal tube <i>Luopeng Yang, Chen Xue, Huawei Hu</i>	75 Green solutions for a thirsty world <i>Perry Mehta, Dianne Peck</i>	34 Effect of dissolved oxygen on the performance of a step-feed hybrid MBR process treating synthetic domestic wastewater <i>Limei Yuan, Chuanyi Zhang, Rui Yan, Hao Liu, Lijiao Tian, Zhixin He, Yanqiu Zhang</i>
15.30–16.00	Coffee break			
16.00–17.30 Chair	Session 21 Fouling/Scaling <i>David Hasson</i>	Session 22 MED/MSF <i>Daniel Hoffman</i>	Session 23 Energy <i>Jack Gilron</i>	Session 24 Wastewater <i>Dan Zaslavsky, Menahem Priel</i>
16.00	151 Cake formation and cake compression effects during constant flux filtration applied to the Modified Fouling Index ultrafiltration (MFI-UF) <i>Sergio G. Salinas Rodríguez, Didik Wahyudi, Maria D. Kennedy, Gary L. Amy, Jan C. Schippers</i>	104 Mixed salt scaling in horizontal tube falling film evaporators under various process conditions <i>Heike Glade, Kerstin Krömer, Stefan Will, Stephan Nied, Jürgen Detering, Gregor Schürmann</i>	96 RO train designs in the last years: Evolution of energy consumption and future trends <i>Rafael Buendia, Aitor Diaz, Carlos Garcia, Domingo Zarzo</i>	50 Low cost municipal wastewater reuse in Mediterranean regions <i>D. Falsanisi, R. Gehr, L. Liberti, D. Santoro, S. Sasso, H. Shuval</i>
16.30	31 A new phosphorous-free antiscalant for membrane desalination <i>D.A. Musale, B.B.J. Yao, S. Lopes, A. Urmenyi, M. Fazel, H. Lohokare, R. Yeleswarapu, A. Hallsby, A. Sheikh</i>	114 Improved simulation and validation of multi-effect desalination plants with thermal vapor compression <i>Myunghoon Seong, Andrea Vozar, John Georgiadis</i>	51 A novel technology to treat sewage water for energy recovery and water reuse <i>Dawen Gao, Rui An</i>	137 Introducing "New Water" and their combination with the "Carrying Capacity" of the natural water resources of Israel as a test study <i>Mo Provizor, Denis Gamazin</i>
16.50	117 Mineral scaling of RO membranes in the presence of biofilm <i>Ronit Arbel, Nancy H. Lin, Eric Lyster, Jack Gilron, Yoram Oren, Yoram Cohen</i>	116 Falling film parallel plate heat exchangers for MED: Pilot study <i>Andrea Vozar, Marios Georgiou, Myunghoon Seong, John Georgiadis</i>	122 Development of large scale microbial fuel cells for wastewater treatment <i>Ronen Shechter, Eytan Levy, Lior Eshed</i>	
17.10	14 Online condition monitoring for membrane systems <i>Markus Gauder, Mark Antoine, Senthilmurugan S, Giuseppe Fraddanno</i>	93 Researching and modelling the dependence of MD flux and energy efficiency on membrane dimension for scale-up purpose <i>Jianhua Zhang, Jun-De Li, Stephen Gray</i>	100 Desalination devices for arid areas <i>Leon B. Begrambekov, Alexey A. Gordeev, Sergey V. Vergasov, Andrey.M. Zakharov</i>	

Wednesday morning

6 October 2010

8.30–10.30 Chair	Session 25 Ultrafiltration <i>Mark Wilf I</i>	Session 26 Environment <i>Avi Efrati</i>	Session 27 TEP/Wastewater <i>Asher Brenner</i>	Session 28 Hybrid <i>Maria Kennedy</i>
8.30	89 AquaFlex LS for potable and process water treatment: high flux coagulant-free ultrafiltration <i>Harry Futselaar, Bastiaan Blankert, Frederik Spenkelink, Rick Rosberg</i>	67 Environmental research on brine discharge optimizing: a case study approach <i>Encarna González, Beatriz Arconada, Patricia Delgado, Ana Álvarez, Manuel Antequera, Yolanda Fernández, Aurora Garrote, Sergio de Rico, Eduardo Salete, José Luis Sánchez Lizaso</i>	77 Filtration resistance of foulant layers containing transparent exopolymer particles (TEP) during membrane filtration <i>Loreen O. Villacorte, Maria D. Kennedy, Gary L. Amy, Jan C. Schippers</i>	111 RO-ED-UF-WAIV hybrid for near-ZLD brackish water desalination <i>J. Gilron, N. Daltorphe, E. Korngold, L. Katzir, R. Messalem, Y. Volkman, M. Waismann, Y. Oren</i>
9.00	105 Large ultrafiltration system for industrial waste water re-use in Turkey <i>Martin Koenig, Norbert Selzer, Bodo von Harten</i>	20 Bridging the water gap. A flexible, interim, SWRO desalination solution while major strategic decisions are being planned <i>Murray Eldridge, David Dwek</i>	101 Transparent exopolymer particles, microbial shuttles expediting biofilm formation in desalination facilities <i>Edo Bar-Zeev, Ilana Berman-Frank, Natasha Belkin, Tom Berman</i>	165 Combined water and power production on industrial scale in the MENA countries using solar and wind energy <i>Massimo Moser, Franz Trieb, Jürgen Kern</i>
9.20	136 Humic acid removal by deep-bed filtration and by UF membranes <i>Iris Sutzkover-Gutman, David Hasson, Raphael Semiat</i>	60 A new approach to handle sewage and other pollutants <i>Dan Zaslavsky</i>	140 What do we know about TEP in the formation of aquatic biofilm? <i>Tom Berman, Roi Mizrahi, Edo Bar Zeev, Ilana Berman-Frank, Carlos Dosoretz</i>	166 Integration of desalination in hybrids for solar and conventional fossil power plants <i>Justin Zachary, Colleen M. Layman</i>
9.40	95 Optimisations of Multibore ultrafiltration membrane characteristics for wastewater reuse applications <i>Martin Heijnen, Peter Berg</i>	156 Economical and environmental assessment of sand filters and RO for effluent reclamation <i>Rashed Al-Sa'ed</i>	85 Effect of coal gangue-flyash ceramic (CFC) media on municipal wastewater treatment in a pre-denitrification biological aerated filter <i>Hongjun Han, Hongbo Hu, Yufei Li, Bing Wang</i>	98 Distributed generation and water production: a study for an Italian Region <i>Gabriele Comodi, Luca Cioccolanti, Torquato Nanni, Stefano Palpacelli, Alberto Tazioli</i>
10.00–10.30	Coffee break			

10:30 Closing session

Awards

Closing remarks

Minister, Professor Avishay Braverman

Introduction to visits to Hadera Desalination Plant

Avshalom Felber

12.00 Lunch

13.00 Visit to Hadera Desalination Plant (Details to be announced)

POSTERS

3 Solar based distillation system for domestic application in Gaza Strip, Palestine

Ahmed Mohammed

4 Membrane era in China water supply: Opportunities and challenge

Liang Heng

19 Behaviour of pharmaceuticals and drugs of abuse in a drinking water treatment plant (DWTP) using conventional and UF/RO treatments

M^a Rosa Boleda, M^a Teresa Galceran, Francesc Ventura

46 Pharmaceuticals and illicit drugs in municipal wastewater and assessment of removal with reverse osmosis treatment

K. Majamaa, V. Gomez, M^a R. Boleda, M^a T. Galceran, F. Ventura

61 The potential of a natural wetland for grey water treatment: a case study in Cape Coast, Ghana

A.E. Duncan, Esi Awuah, D.K. Dodoo, Nana O.B. Ackerson

69 Influence of modified montmorillonite on the process of baromembrane purification of water from uranium(VI)

Lyudmila Yurlova, Antonina Kryvoruchko

71 Effectiveness of treatment of wastewaters with chemisorption composite materials «Polycon»

M.M. Kardash, G.V. Aleksandrov

73 Separation characteristics of acetone/water mixtures through sodium alginate/poly (vinyl pyrrolidone) membranes by vapor permeation and vapor permeation with temperature difference

Ebru Kondolot Solak, Suat Kahya, Oya Sanli

79 Study on the impact of particle size distribution on turbidity in water

Weipeng He, Jun Nan

80 Characteristic analysis of morphological evolution of suspended particles in water during dynamic flocculation process

Jun Nan, Weipeng He

81 Experimental results of seawater distiller utilizing waste heat of portable electric generator

Chang-Dae Park, Byung-Ju Lim, Kyung-Yul Chung 92 Effect of coagulation on phosphorus distribution in water

Hailong Liu, Xia Zhao, Ruyuan Jiao

118 Eliminating arsenic from membrane concentrates by the reuse of anion exchange resins

Zakhar Maletskyi, Tetiana Mitchenko, Nataliia Makarova, Elena Shevchuk

119 Cost-effective seawater desalination technology based on reuse of municipal water

Fredg Fendri, Tetiana Mitchenko, Zakhar Maletskyi

124 Utilizing the flexibility of RO system configuration

Val Frenkel, Mark Wilf

128 Improved phenol degradation in high-phenol-fed MBR by membrane-driven containment of non-settling biodegradation microbes

Soojeung Ahn, Insang Song, Younkyoo Choung, Seung Chan Kim, Joonhong Park

139 Effect of the concentration polarization on the fouling driving force in UF membranes

Sonia Vulf, Iris Sutzkover-Gutman, David Hasson, Raphael Semiat

142 Correlation of CaCO₃ induction times measured by an electrochemical technique

Irina Zaslavschi, David Hasson, Hilla Shemer, Raphael Semiat, Mark Wilf, Craig Bartels

161 Characterisation of NF-2 membrane modified with alkoxy silanes

M. Bauman, A. Lobnik, A. Kosak, I. Petrinic, T. Luxbacher

Thursday

7 October 2010

Visits to Desalination Plants: Ashkelon, Hadera, Palmachim

Shafdan Wastewater Treatment Plant

Mekorot Water Carrier

DETAILS TO BE ANNOUNCED

22/08/10