ABOUT SAWEA

The Saudi Arabian Water Environment Association (SAWEA) is a non-profit organization founded on January 1, 2002 by a group of professionals working in Saudi Arabia in water and wastewater treatment.

SAWEA is a professional self-directed group, predominantly within Saudi ARAMCO. The main sponsors of the association are the Saudi ARAMCO Utilities and Environmental Protection Departments. In addition SAWEA is the official local chapter of the International Water Environment Federation (WEF), which is the largest Water Association in the world. Since January 1, 2002, SAWEA has held several successful conferences and exhibitions focusing on water environmental issues.

www.sawea.org

About WEF

Formed in 1928, the Water Environment Federation® (WEF®) is a not-for-profit technical and educational organization with 36,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world. WEF and its Member Associations proudly work to achieve our mission of preserving and enhancing the global water environment®.

www.wef.org

About IDA

The International Desalination Association (IDA) is the leading global organization dedicated to desalination, desalination technology and water reuse. The hub of expertise, news and information and professional development for the worldwide desalination industry, IDA serves more than 2,400 core members from 60 countries and reaches an additional 4,000 members from its worldwide network of Affiliate organizations. IDA is committed to the development and promotion of the appropriate use of desalination and desalination technology globally in water supply, water reuse, water pollution control, water purification, water treatment and other water sciences and technology.

www.idadesal.org

SAWEA is committed to minimizing our Conference’s impact on the Environment. This program has been printed on recycle paper and the Conference proceedings have not been reproduced. They are available for anyone to download at: www.sawea.org
Chairman's Welcome

Nabeel A. Al Jama'
Chairman of Water Arabia 2011 Organizing Committee
Executive Director, Saudi Aramco Community Services

I welcome and strongly encourage your participation in Water Arabia 2011 because of its importance to the Gulf Region’s future. Together, we can use sustainable technologies and policies to help prevent future water shortages. It is a well known fact that the Gulf Region is rapidly using up its groundwater resources. The UN FAO 2009 Water Report 34 shows that the GCC countries use 30,699 million cubic meters of water per year, but get only 4,144 million cubic meters of renewable water per year from rainfall. Seventy five percent of the water used by GCC countries is groundwater (commonly known as fossil water) that is not renewable and eleven percent of the water used comes from desalination and wastewater re-use. In order to better provide for the future, we need more sustainable water sources. These include further innovative sea water desalination, recycling and conservation policies to control both human and agricultural consumption. In the interim, our non-renewable water sources must be used in an environmentally responsible manner for their maximum benefit.

Water Arabia 2011 was organized to highlight the magnitude of the water sustainability problem in the region and to provide solutions. We hope to promote communication between all water industry leaders and professionals to better address the vital issue of water sustainability.

The theme of Water Arabia 2011 is: “Innovative Water & Wastewater Technologies for a Sustainable Environment”. The conference program is designed to provide the Gulf Region water professionals with information on innovative water and wastewater technologies that can be used to help the Gulf Region develop a sustainable water environment.

Many thanks to His Excellency Eng. Fahmi Bin Ali Aljowder, Minister of Electricity & Water Affairs, Kingdom of Bahrain for his patronage of this important event. We appreciate and look forward to the participation of delegates, sponsors, presenters and exhibitors.
Chairman’s Welcome

Conference Organizers

H.E. Eng. Fahmi Bin Ali Aljowder
H.E. Eng. Fahmi Bin Ali Aljowder is the Minister of Electricity & Water Affairs in the Kingdom of Bahrain. Mr. Al Jowder has over 20 years experience in all aspects of the profession and more particularly in management, planning, design and supervision of a wide range of projects. He received a Master of Engineering Management in Construction & Facilities from George Washington University. He was awarded by H.M. The King of Bahrain The Order First Degree for the successful completion of the Bahrain International Circuit.

Nabeel A. Al Jama’
Mr. Al Jama’ currently holds the position of Executive Director, Saudi Aramco Community Services. In this role he provides strategic leadership to plan, develop and manage all communities, office complexes and associated utilities in support of Saudi Aramco activities throughout Saudi Arabia. Mr. Al Jama’ holds a M. Sc. in City & Community Regional Planning from King Fahd University of Petroleum and Minerals. Mr. Al Jama’ is a member of the Arabian Society for Human Resources Management (ASHRM), the ARTDO International and board member of the Aramco Services Company, Houston, USA.

Dr. Mohammad Dahab
Dr. Dahab is a professor and Chair of the Department of Civil Engineering at the University of Nebraska. He is a graduate of the University of Iowa with a Bachelor of Science in Civil Engineering and Iowa State University with MS and Ph.D. degrees in Environmental Engineering. Dr. Dahab is a member of the Water Environment Federation, the International Water Association, the American Society of Civil Engineers, the American Water Works Association, the Association of Environmental Engineering and Science Professors and the American Academy of Environmental Engineers. He is a Past President of the Water Environment Federation.

Dr. Corrado Sommariva
Dr. Sommariva is a consultant of international reputation. He is presently the Managing Director of ILF Consulting Engineers Middle East and the head of the worldwide desalination activities of ILF. Dr. Sommariva has experience in both thermal, reverse osmosis, desalination and wastewater system. Dr. Sommariva has a PHD in Chemical engineering from Genoa University. He has been President of the European Desalination Society (EDS) and Past President of the International desalination Association (IDA).

Mohammed Al-Abdullatif
Mohammed Al-Abdullatif is the President of the Saudi Arabian Water Environment Association (SAWEA); a non-profit professional organization dedicated to preserving and enhancing water quality. Mohammed has over 20 years of experience in the operation of water and wastewater systems. Currently, he is the Water & Wastewater Technical Advisor in the Saudi Aramco Utilities Department.
## Design Workshops

### Monday, January 31, 2011

<table>
<thead>
<tr>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
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</thead>
<tbody>
<tr>
<td>Location</td>
<td>Convention Center Room A</td>
<td>Convention Center Room B</td>
</tr>
<tr>
<td>Topic</td>
<td>Basic Sanitary Wastewater Treatment Plant Design</td>
<td>Basic Industrial Wastewater Treatment Plant Design</td>
</tr>
<tr>
<td>Presented by</td>
<td>Dr. Mohan Gunaratnam</td>
<td>Thomas Schultz</td>
</tr>
</tbody>
</table>

### Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Registration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8:30</td>
<td>Introduction &amp; General Overview of Sewage Treatment</td>
<td>Treatment of Produced Water in Oil and Gas Production</td>
<td>Desalination Basic Mass Balances</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Injection Water Treatment for Enhanced Oil Recovery</td>
<td>Energy Aspects of Desalination Technologies</td>
</tr>
<tr>
<td>10:00</td>
<td>Coffee Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10:30</td>
<td>Preliminary &amp; Primary Treatment</td>
<td>Petroleum Refinery &amp; Petrochemical Plant Wastewater Treatment Plant Design</td>
<td>Overview of Thermal Desalination Technology</td>
</tr>
<tr>
<td>12:00</td>
<td>Lunch Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13:00</td>
<td>Secondary Treatment and Advanced Treatment</td>
<td>Industrial Odor/VOC Control and Spent Caustic Treatment</td>
<td>Overview of Desalination Technology</td>
</tr>
<tr>
<td></td>
<td>Sludge Treatment</td>
<td>Mobile Water Treatment Services and Innovations in Wastewater Treatment Technology</td>
<td>CAPEX-OPEX Comparison</td>
</tr>
<tr>
<td>16:00</td>
<td>Exhibition Preview Open</td>
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</tr>
<tr>
<td>18:00</td>
<td>Exhibition Preview Closes</td>
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## Technical Program

### Tuesday, February 1, 2011

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Registration</td>
</tr>
<tr>
<td>8:30</td>
<td><strong>Opening Ceremony</strong>&lt;br&gt;<strong>Welcome Addresses:</strong>&lt;br&gt;Nabeel A. Al Jama’&lt;br&gt;Chairman of WaterArabia 2011 Organizing Committee&lt;br&gt;H.E. Eng. Fahmi Bin Ali Aljowder&lt;br&gt;Minister of Electricity &amp; Water Affairs Kingdom of Bahrain&lt;br&gt;Abdallah I. Al-Saadan&lt;br&gt;Vice President of Engineering Services, Saudi Aramco&lt;br&gt;<strong>Keynote Addresses:</strong>&lt;br&gt;Dr. Mohamed Dahab&lt;br&gt;WEF Past President&lt;br&gt;Dr. Corrado Sommariva&lt;br&gt;IDA Past President</td>
</tr>
<tr>
<td>10:30</td>
<td>Opening Ceremony - Ribbon Cutting in Exhibition Area</td>
</tr>
<tr>
<td>12:30</td>
<td>Lunch Break (Venue: Awal Ballroom, Gulf Hotel)</td>
</tr>
</tbody>
</table>

### Technical Program

<table>
<thead>
<tr>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
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</thead>
<tbody>
<tr>
<td><strong>Chairmen</strong>&lt;br&gt;Mohammed Alhajjy &amp; Dr. Ahmed Hashim</td>
<td>Dr. Ramzi Hejazi</td>
<td>Khaled Abulief</td>
</tr>
<tr>
<td>13:30</td>
<td><strong>Exploiting Impaired Quality Sources for Drinking Water</strong>&lt;br&gt;Dr. Gary Amy, KAUST Water Desalination &amp; Reuse Center</td>
<td><strong>Sustainable Urban Water Management, the Case of the GCC Countries</strong>&lt;br&gt;Dr. Waleed Zubari, Arabian Gulf University</td>
</tr>
<tr>
<td>14:00</td>
<td><strong>Water Pinch Analysis</strong>&lt;br&gt;Dr. Subhi Al Jeshi, Saudi Aramco</td>
<td><strong>Small Foot Print Wastewater Treatment Processes/Technologies for WWTP Rehabilitation</strong>&lt;br&gt;Dr. Khalil Atasi, CDM-Arabia and Dr. Mohamed Dahab, WEF Past President</td>
</tr>
<tr>
<td>14:30</td>
<td><strong>Low Energy Desalination</strong>&lt;br&gt;John Kiernan, Siemens</td>
<td><strong>Oily Wastewater Reuse Technologies</strong>&lt;br&gt;William Conner, Saudi Aramco</td>
</tr>
<tr>
<td>15:00</td>
<td>Coffee Break</td>
<td></td>
</tr>
<tr>
<td>15:30</td>
<td><strong>How to Properly Specify a UV System for Disinfecting Water or Wastewater</strong>&lt;br&gt;Dr. G. Elliott Whitby, Calgon Carbon</td>
<td><strong>Advanced Oxidation Systems - Solution to Emerging Contaminants and Micropollutants</strong>&lt;br&gt;Dr. Khalil Atasi, CDM-Arabia</td>
</tr>
<tr>
<td>16:00</td>
<td><strong>An in-Kingdom Developer’s Perspective and Experience in Water and Wastewater Utilities BOO(T) Development</strong>&lt;br&gt;George Antonopoulos, SETE</td>
<td><strong>Innovative Solution for Treatment of Recalcitrant Organic Compounds in Wastewater</strong>&lt;br&gt;Francisco Montero Milou, Aquatech</td>
</tr>
<tr>
<td>16:30</td>
<td><strong>Cleaning Clay from Fouled RO</strong>&lt;br&gt;Stephan Chesters, GENESYS International</td>
<td><strong>Improving Efficiency in Water and Waste Water Networks</strong>&lt;br&gt;Talal Shawwaa, Bentley</td>
</tr>
<tr>
<td>17:00</td>
<td>Close of Presentations</td>
<td></td>
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<tr>
<td>17:30</td>
<td>Exhibition Closes</td>
<td></td>
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</tbody>
</table>
Water Arabia Expert Panel Discussion

Tuesday, February 1, 2011

The theme of the panel is: Ways to Optimize the Water Production, Reuse and Management Economics. The panel will start with a keynote speech by H.E. Eng. Ahmed Mohammed Al-Mudaheem, the Deputy Governor for Project & Technical Affairs at Saline Water Conversion Corporation (SWCC), Saudi Arabia.

Welcome Address
Mohammad A. Al-Othman
Vice Chairman
Water Arabia 2011 Organizing Committee

Chairman
Abdulhamid Al Mansour
Director
Saudi Arabian Water Environment Association (SAWEA)

Keynote address
H.E. Eng. Ahmed Mohammed Al-Mudaheem
The deputy Governor for Project & Technical Affairs
Saline Water Conversion Corporation (SWCC)

Water Arabia Expert Panel

Dr. Abdulmajeed Ali Al-Awadhi
Chief Executive
Bahrain Electricity & Water Authority

Thomas E. Schultz
Director of Sales and Marketing
Siemens Water Technologies Corp.

Dr. Adil A. Bushnak
CEO
Bushnak Group

Rasheed Al-Rasheed
MD & CEO
Acwa Holdings

Steve Watzek
Strategy & Chief Marketing Officer
GE Power & Water
## Technical Program

**Wednesday, February 2, 2011**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session D</th>
<th>Session E</th>
<th>Session F</th>
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</thead>
<tbody>
<tr>
<td>7:30</td>
<td>Registration</td>
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</tr>
<tr>
<td>8:30</td>
<td><strong>Session D</strong></td>
<td><strong>Session E</strong></td>
<td><strong>Session F</strong></td>
</tr>
<tr>
<td></td>
<td><em>Innovative Water Treatment and Desalination [Organized by IDA]</em></td>
<td><em>Innovative Sanitary &amp; Industrial Wastewater Treatment Options</em></td>
<td><em>Water &amp; Wastewater Treatment Options - Variety of Topics</em></td>
</tr>
<tr>
<td></td>
<td>Chairman: Dr. Corrado Sommariva &amp; Eng. Abdul Husain Al Jaziri</td>
<td>Mohammad Alhajiri and Waleed M. Almurbati</td>
<td>Saleh Y. Al-Qahtani</td>
</tr>
<tr>
<td>8:30</td>
<td>Improving Economics of Industry by Effluent Recycle Option</td>
<td>Aerobic digesters with Membrane Thickening</td>
<td>Experience in the Development of the BAPCO WW Treatment Plants</td>
</tr>
<tr>
<td></td>
<td>Vikrant Sarin, AquaTech</td>
<td>Steve Kennedy, Ovivo</td>
<td>Essa Al-Ansari, BAPCO</td>
</tr>
<tr>
<td>9:00</td>
<td>Post-Treatment of Desalinated Water</td>
<td>Walnut Shell Filters &amp; Reuse</td>
<td>Saudi Aramco Experiences with MBRs</td>
</tr>
<tr>
<td></td>
<td>Dr. Nabil Nada, Arabian Company for Water &amp; Power Projects Intl.</td>
<td>Dr. Mike Howdeshell, Siemens</td>
<td>Subhi Al-Aama &amp; Thamer Al-Mutairi, Saudi Aramco</td>
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<tr>
<td></td>
<td>Dr. Frans Knops, Norit</td>
<td>Nicole Ivers, CDM</td>
<td>Dr. Dirk Herold, KOCH</td>
</tr>
<tr>
<td>10:00</td>
<td><strong>Session G</strong></td>
<td><strong>Session H</strong></td>
<td><strong>Session I</strong></td>
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<tr>
<td></td>
<td><em>Innovative Water Treatment Water and Desalination [Organized by IDA]</em></td>
<td><em>Water &amp; Wastewater Treatment Options - Variety of Topics</em></td>
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<tr>
<td></td>
<td>Chairman: Dr. Corrado Sommariva &amp; Eng. Abdul Husain Al Jaziri</td>
<td>Mohammad Alhajiri and Waleed M. Almurbati</td>
<td>Saleh Y. Al-Qahtani</td>
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<td>10:00</td>
<td><strong>Session G</strong></td>
<td><strong>Session H</strong></td>
<td><strong>Session I</strong></td>
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<tr>
<td></td>
<td>Optimized Pre-Treatment for RO-Plants Biofouling Management with BioSS-Treat Technology</td>
<td>Assessment of Wastewater Quality from Dairy Industries in the Kingdom of Bahrain</td>
<td>Sludge Dewatering Using Decanter-Centrifuges</td>
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<tr>
<td></td>
<td>Martin Stahl, Von Roll BHU</td>
<td>Dr. M. Al-Mowali, Arabian Gulf University</td>
<td>Desmond Chan, Alfa Laval &amp; Mahmoud Moaikeli, Saudi Aramco</td>
</tr>
<tr>
<td>11:30</td>
<td><strong>Session G</strong></td>
<td><strong>Session H</strong></td>
<td><strong>Session I</strong></td>
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<td></td>
<td>Coffee Break</td>
<td>Coffee Break</td>
<td>Coffee Break</td>
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<td></td>
<td><strong>Session G</strong></td>
<td><strong>Session H</strong></td>
<td><strong>Session I</strong></td>
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<td></td>
<td>Al Hidd IWPP</td>
<td>DynaFilter® EcoWash™ Improved Sand Filtration Technology</td>
<td>Environmental Sustainability Through the Use of Nalco 3D TRASAR Technology for Open Evaporative Seawater Cooling Water Systems</td>
</tr>
<tr>
<td></td>
<td>Isao Takekoh, Sumitomo Corp.</td>
<td>Roland Mueller, Parkinson</td>
<td>Posth Frederic, Nalco</td>
</tr>
<tr>
<td>12:00</td>
<td>Nano-filtration coupled with Thermal Desalination for Very High Salinity systems</td>
<td>Cloth Media Filter Retrofit Increases Filtration Capacity in Existing Sand Filter Basins in USA</td>
<td>Wastewater Management in Eastern Province on Life Cycle Approach</td>
</tr>
<tr>
<td></td>
<td>Sanjeev Varma &amp; Dr. Manfred Ried, Aqua Swiss AG</td>
<td>Hui Lin, Aqua-Aerobic Systems, Inc.</td>
<td>Abdalla Mohey El-Dein, University of Dammam</td>
</tr>
<tr>
<td>12:30</td>
<td>Advanced Waste Water Treatment Opportunity for MBR Process</td>
<td>Energy Efficiency in Mechanical Separation with GEA Westfalia Separator</td>
<td>Wastewater Treatment Plant Energy Reduction With High Efficiency M2T Aerators</td>
</tr>
<tr>
<td></td>
<td>Francois Dao, Acciona Agua</td>
<td>Andreas Rak, GEA Mechanical Equipment / GEA Westfalia Separator Group GmbH</td>
<td>Dave Evans &amp; Rabea Manakhah, Saudi Aramco</td>
</tr>
<tr>
<td>14:00</td>
<td>Lunch Break</td>
<td>Close of the Conference and Exhibition</td>
<td>Close of the Conference and Exhibition</td>
</tr>
</tbody>
</table>
Saudi Aramco

Owned by the Saudi Arabian Government, Saudi Aramco is a fully-integrated, global petroleum enterprise and a world leader in exploration and producing, refining, distribution, shipping and marketing. The Company manages the largest proven reserves of conventional crude oil, 260.1 billion barrels, and the fourth-largest gas reserves in the world, 275.2 trillion cubic feet. Saudi Aramco, through its affiliate, Vela International Marine Ltd, owns and operates the world's second largest tanker fleet to help transport its crude oil production, which amounted to 1.3 million barrels per day in 2009. In addition to its headquarters in Dhahran, Saudi Arabia, Saudi Aramco, through its affiliates, has joint ventures and subsidiary offices in China, Japan, India, the Netherlands, the Republic of Korea, Singapore, the United Arab Emirates, the United Kingdom and the United States. Saudi Aramco also refines and distributes oil products throughout the Kingdom of Saudi Arabia to meet domestic daily energy demands.

For more information, please go to www.saudiaramco.com

Platinum Sponsor

Siemens Water Technologies

Siemens Water Technologies provides answers to some of the world’s most pressing water issues. Siemens understands the unique value of water and develops drinking water and wastewater technologies that help manage the world’s water resources more effectively.

Siemens Water Technologies serves more than 90 percent of the Fortune 500 manufacturing companies, including approximately 100,000 industrial customers. Through high-purity technology and related services, Siemens provides answers to industry and manufacturers by helping them meet specific water quality requirements to ensure consistent processes and production. Siemens also helps industry meet ever increasing wastewater regulations, while improving efficiency and reducing waste.

Siemens Water Technologies is a global water treatment equipment and service provider with more than 6000 employees at 180 locations worldwide. More than 200,000 technology and service installations around the world illustrate the company’s product, process and service expertise. More than 2,100 water-related patents and trademarks illustrate the company’s pioneering spirit through continuous innovation and a deep understanding of water treatment processes.

For more information visit us at: www.siemens.com/water
or e-mail at: information.water@siemens.com

OVIVO

OVIVO 2010 sees the emergence of a new force in the global water industry. Two of world's most established names in municipal and industrial water management (Christ Water Technology and Eimco Water Technologies) joining forces to create the first and only global business dedicated purely to water. The Ovivo brand defines its raison d'être in its Vision: to create value in water. This is reflected in every aspect of our business: from our core ethos to value water as the ultimate finite resource, as we drive new efficiencies and value into the design of water and wastewater solutions, as we manage down total operating costs, as we seek to pioneer new waste-to-energy solutions. Wherever Ovivo touches water, we seek to add value to water and create an appreciation for the value of water. The core of our business is people. Our new brand humanizes and differentiates our
global business: it takes the emphasis away from equipment and focuses upon the “how” rather than the “what”; it focuses upon the intelligence and fluidity of Ovivo’s innovative culture, forever changing shape to the needs of the sector and to bring new efficiencies and lower lifetime costs to the market. OVIVO… Bringing water to life

For More information visit us at: www.ovivowater.com

**Durrat Al Bahrain**

Durrat Al Bahrain is a hallmark island city of the 21st century. Located on the south coast of Bahrain, this 21 square kilometre master development has been created across a cluster of 15 spectacular islands. It will host, among its many kaleidoscopic offerings, beautiful beachfront villas, executive apartments and offices, luxury hotels and spa resorts, parks and entertainment precincts, premier retail malls and restaurants, a 400 berth marina and an Ernie Els designed 18-hole golf course.

Durrat Al Bahrain is owned by the Durrat Khaleej Al Bahrain Company, in which the Government of the Kingdom of Bahrain and Kuwait Finance House – Bahrain each hold a 50 percent stake. A 21 km² area of pristine waters and untouched beaches, Durrat Al Bahrain, once complete, is expected to be approximately the size of Manama, Bahrain’s capital city. Named after the “most perfect pearl” in the Arabian Gulf, Durrat Al Bahrain is a $6 billion development, designed by Atkins, the world-renowned design, engineering and consultancy firm and KMC Bovis, a project development firm. Upon completion, Durrat Al Bahrain will be the region’s most prominent seaside resort city, with 60,000 permanent residents and 4,500 visitors a day, establishing Bahrain as an upscale tourist destination.

For more information visit us at: www.durratbahrain.com

**Albusaili Electromechanical Works Co.**

Over the last Forty years provided highly successful services in the fields of ElectroMechanical, Water & Wastewater Works sector to very Prestigious Clients, at key locations in the Kingdom. Water & Wastewater Dept. is a pioneer in the dynamic field of environmental services, it is known for its broad selection of versatile, reliable and economical technologies that maximize water treatment efficiency while minimizing equipment maintenance costs. We supply of high performance equipment and services for both water wastewater treatment for Municipal and industries sectors. We provide our customers with innovation solutions adapted to their specific needs; and capable of providing engineering solutions needed by any one of our client. Know-how and hands-on staff expertise are the qualities that make AlBusaili Co. well known in the market. Our customers are more PARTNERS than just clients. They enjoy risk free services and excellent packages tailored to their needs.

For more information visit us at: www.albusaili.com

**Veolia Water Solutions & Technologies (VWS)**

Veolia Water Solutions & Technologies (VWS) is a fully owned subsidiary of Veolia Water, the global leader in water services. VWS, present in more than 57 countries, is the leader in engineering, design, project management and execution of construction projects, with over 9,500 employees and 70 years of experience in municipal, industrial water and wastewater treatment. VWS had revenues of 2.5 billion Euros in 2009. VWS is present in Saudi Arabia as:
Veolia Water Solutions & Technologies, Saudi-Industries Ltd. is specialized in the design & construction of Water Treatment Plants and Sewage Treatment Plants

Veolia Water Solutions & Technologies, Saudi-Chemical Industries is specialized in the production of Specialty Chemicals used for Water Treatment

VWS-Saudi serves their customers with a full range of technologies tailored to meet their specific requirements in addition to local manufacturing. VWS-Saudi holds ISO & ASME accredited manufacturing facilities, and is a leading supplier of specialty chemicals used in a variety of process applications.

For more information please visit us at: www.veoliawaterst.com.sa

Aquatech

Aquatech strives to provide Technology Leadership and Performance Excellence to the Global Water Industry. We aim to support our clients with cutting edge Sustainable Solutions, minimizing their Life Cycle Cost, as well as their Carbon and Water Footprint.

Established in 1981, Aquatech is a global leader in water purification technology for industrial and infrastructure markets with a focus on water scarcity solutions such as desalination, water reuse and zero liquid discharge and provides integrated solutions, turnkey projects, products and services in the following market areas:

- Industrial Process Water
- Membrane Desalination
- Thermal Desalination
- Wastewater Recycle and Reuse
- Effluent Treatment
- Zero Liquid Discharge

The company is headquartered in the United States, has offices throughout North America and significant presence worldwide through subsidiaries in Europe, the United Arab Emirates, India and China Aquatech is uniquely positioned to offer its clients complete integrated solutions through its vast depth and breadth of technology offerings which include physical / chemical treatment, ion exchange, membrane processes, biological, electrochemical, thermal and advanced oxidation. Some of the notable technologies in Aquatech’s portfolio include MED (Multiple Effect Distillation), High Recovery and Efficiency Reverse osmosis Systems and Aqua-EMBR (Enhanced membrane Bio-Reactor).

For more information please visit us at: www.aquatech.com

Diyar Al Muharraq

DIYAR AL MUHARRAQ is an integrated waterfront community, offering a quality of living for any aspiration. Spread over 12 square kilometers on the northern shores of Muharraq, DIYAR AL MUHARRAQ is one of the largest mixed-use urban developments in the Kingdom of Bahrain, providing a cohesive blend of residential and commercial properties. Spanning several reclaimed islands, the development is delivering over 40 kilometres of new urban waterfront, among the largest in the Kingdom. Master-planned as a city for the people, DIYAR AL MUHARRAQ will offer a completely integrated and self-contained community of residential, commercial, leisure and retail components. With new homes for over 120,000 residents, and extensive publicly accessible waterfront, DIYAR AL MUHARRAQ combines all the elements required to create a vibrant community, including schools, medical centres, recreation facilities, shopping malls, banks, business centres, hotels and marinas, among others.

Find out more about this pioneering project at: www.diyar.bh
BBK

BBK has been the pioneer in Commercial Banking for over 35 years in the Kingdom of Bahrain. As a revolutionary market leader, BBK has built a name and reputation which is respected locally as well as internationally. To maintain this reputation, BBK has been at the forefront, incorporating the latest technologies to provide the finest services. One example of which is the e-banking solutions offered by BBK, which provide new generation services through its user friendly award winning website www.bbkonline.com, along with the telebanking, cash depository machines and automated teller machines services. BBK is proud to be awarded the “Distinguished Corporate Governance” at the “Hawkamah-UAB 2010 Bank Corporate Governance Award”. This award has become a prestigious, competitive and highly coveted bank award that highlights the industry’s strong commitment to good corporate governance.

For more information please visit us at: www.bbkonline.com

The Bahrain Petroleum Company B.S.C. (Closed)

BAPCO, wholly owned by the Government of Bahrain, is engaged in the oil industry including exploration and prospecting for oil, drilling, production, refining, distribution of petroleum products and natural gas, sales and exports of crude oil and refined products.

The company owns a 260,000 barrel-a-day refinery, storage facilities for more than 14 million barrels, a marketing terminal, and a marine terminal for its petroleum products. Ninety-five percent of refined products are exports.

BAPCO’s prime customers for crude oil and refined products are based in the Middle East, India, the Far East, South East Asia and Africa. With the successful completion in 2007 of the US$725 million Low-Sulphur Diesel Production complex, Bapco is now able to produce low and ultra-low sulphur diesel, meeting the most stringent market specifications, enabling expansion into the European and U.S. markets, and ensuring the economic continuity of the company.

For more information visit us at: www.bapco.net

Atlas Copco

Atlas Copco is an industrial group with world-leading positions in compressors, construction and mining equipment, power tools and assembly systems. The Group delivers sustainable solutions for increased customer productivity through innovative products and services. Founded 1873, the company is based in Stockholm, Sweden and has a global reach spanning more than 170 countries. In 2009, Atlas Copco had about 30,000 employees and revenues of BSEK 64 (BEUR 6.0).

For more information visit us at: www.atlascopco.com

Bentley System

With nearly 3000 colleagues at 80 offices throughout the world, Bentley is one of the top 100 software companies in the world. With 2009 revenues exceeding $500 million, Bentley is the leading provider of AEC software to the Engineering News-Record Design 500 and major owner-operators. In 2005, Bentley was named “Technology Company of the Year” by the Eastern Technology Council. More generally, Bentley provides software for the lifecycle of the world’s infrastructure, spanning architecture, engineering, construction (AEC) and operations, and serves the civil, building, plant and geospatial vertical markets. Bentley’s Haestad Methods product line of software provides water professionals with advanced engineering tools to plan, design, maintain, analyse, manage, and operate water distribution supply, municipal sanitary sewers, urban stormwater collection, and roadway and civil site drainage.

For more information visit us at: www.bentley.com
Exhibitors

Saudi Aramco
www.saudiaramco.com
Booth: 10-15

Veolia Water & Solution Technologies
www.veoliawaterst.com
Booth: 8,9,24, 25

Aquatech Eastern (FZE)
www.aquatech.com
Booth: 50

Bentley Systems
www.bentley.com
Booth: 59

Siemens Water Technologies
www.water.siemens.com
Booth: 16,17,18,19

OVIVO
www.ovivo.com
Booth: 46

Bahrain Electricity and Water Authority
www.mew.gov.bh
Booth:1-2

Atlas Copco
www.atlascopco.com/bhus
Booth: 55
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ABOUT SAWEA
The Saudi Arabian Water Environment Association (SAWEA) is a non-profit organization founded on January 1, 2002 by a group of professionals working in Saudi Arabia in water and wastewater treatment.

SAWEA is a professional self-directed group, predominantly within Saudi ARAMCO. The main sponsors of the association are the Saudi ARAMCO Utilities and Environmental Protection Departments. In addition, SAWEA is the official local chapter of the International Water Environment Federation (WEF), which is the largest Water Association in the world. Since January 1, 2002, SAWEA has held several successful conferences and exhibitions focusing on water environmental issues.

www.sawea.org

About IDA
The International Desalination Association (IDA) is the leading global organization dedicated to desalination, desalination technology, and water reuse. The hub of expertise, news, and information and professional development for the worldwide desalination industry.

IDA serves more than 2,400 core members from 60 countries and reaches an additional 4,000 members from its worldwide network of Affiliate organizations. IDA is committed to the development and promotion of the appropriate use of desalination and desalination technology globally in water supply, water reuse, water pollution control, water purification, water treatment and other water sciences and technology.

www.idadesal.org

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About WEF
Formed in 1928, the Water Environment Federation® (WEF®) is a not-for-profit technical and educational organization with 36,000 individual members and 75 affiliated Member Associations representing water quality professionals around the world. WEF and its Member Associations proudly work to achieve our mission of preserving and enhancing the global water environment®.

WEF and its global network of Member Associations (MAs) help provide water quality professionals with the latest in water quality education, training and business opportunities. WEF’s diverse membership includes scientists, engineers, regulators, academics, plant managers and operators and other professionals working in the United States and around the world.

www.wef.org