Developing a comprehensive wastewater network to minimise demand on fresh water sources and safeguard Egypt’s water security

2-DAY CONFERENCE: 29-30 AUGUST 2016 • INTERCONTINENTAL HOTEL CITYSTARS, CAIRO, EGYPT

HEAR FROM INDUSTRY EXPERTS INCLUDING:

- Prof. Ayman Mosallam, Founder, Egypt Green Building Council
- Dr. Hussein El-Atfy, Secretary General Arab Water Council
- Habib Omran, President Director General ONAS – National Office Sanitation Tunisia
- Prof. Ayman Mosallam, Founder, Egypt Green Building Council
- Dr. Ahmed Gaber, Professor of Chemical Engineering, Cairo University and Chairman, Chemonics Egypt, Engineering & Management Consultants
- Antonio Atienzar Espana, General Manager, Orascom Aqualia
- Dr. Sameh Abdelgawad, Chairman, Misrconsult
- Eng. Anwar Manaf, Sanitation Consultant, Holding Company for Water & Wastewater
- Eng. Waheed Elathy, Tender Manager, New Urban Communities Authority
- Dr. Helalley Abdel Hady Helalley, Chief of Industrial Wastewater Management, Alexandria Sanitary Drainage Company
- Eng. Mansour Badawi, Chairman, Cairo Sanitary Drainage Company
- Eng. Mohamed Ghoniem, Department Director, Beheira Water & Wastewater Company
- Dr. Yasser Mostafa, Chairman & CEO, Hydro Consult
- Dr. Mahmoud Heikel, Director of Water & Wastewater Department, Khatib & Alami
- Dr. Magdy Abou Rayan, President, International Water Technology Association
- Eng. Bahaa Affi, Project Manager, ACE Moharram Bakoum
- Eng. Mohamed Younis, Project Manager, Gabal Al Asfar Wastewater Treatment Plant
- Atter Hannoura, Head of PPP Central Unit, Ministry of Finance
- Eng. Ramzy Ebead, General Manager, Giza Water & Wastewater Company

WHY SHOULD YOU ATTEND?

- Learn about the international best practices in water treatment to be able to improve the quality of effluent and increase reuse
- Hear about the impact of wastewater treatment plant design on operation and maintenance costs
- Meet the main stakeholders that are responsible for the delivery of Egypt’s water treatment infrastructure to win future business
- Gain insights from international speakers about how they solved rural wastewater challenges to learn lessons that can be applied to Egypt’s towns
- Hear about the plans for the development of new water treatment facilities to enable you to formulate an effective plan to achieve your 2016/17 business development objectives

For more information or to register
Tel: +971 4 364 2975 Email: enquiry@iqpc.ae @iqpcmena www.wastewateregypt.com
Dear industry colleague,

Egypt is facing a number of imminent threats to its water security to the extent that the United Nations claims that the country might run out of water by 2025. The population explosion, increased use of river water from the rapid industrialisation of Nile basin countries and the continued dumping of untreated wastewater are all cause for grave concern for Egypt’s authorities. As such the government is now looking at various ways in which they can protect their water supply in the coming decades.

The treatment and reuse of wastewater has now become the government’s priority to safeguard their water security. Over 75% of the rural areas in Egypt have no access to wastewater treatment which has resulted in the increased pollution of the countries only primary water source (over 95% of Egypt’s fresh water is from the Nile). There have been 2 national programmes that have been launched with the funding of the World Bank and European Union to address this specific issue. In addition the Abu Rawash wastewater treatment plant upgrade is under way and when complete will become one of the world’s largest wastewater treatment plants in the world. There are also a number of other projects that will increase the capacity of wastewater treatment including the Gabal Al Asfar upgrade as well as the development of a wastewater treatment plant in Helwan. However there are numerous challenges facing the industry, outdated technology, high cost of land parcels as well as escalating operation and maintenance costs have hampered the development of a comprehensive wastewater network in Egypt.

Wastewater Egypt conference taking place in Cairo from 29-30 August 2016 will be 2 days of interactive discussion and debate that will aid in the facilitation of better delivery of Egypt’s water treatment projects. The event will bring together the major stakeholders and experts in the water industry to discuss the latest technologies, best practices for design and construction of treatment facilities and reducing the cost of operation and maintenance.

I look forward to welcoming you to Cairo in August.

Yours faithfully,

Mohaned El Mahgoub
Conference Director – Wastewater Egypt
IQPC Middle East & North Africa

What attendees of our past water and wastewater events had to say:

“The summit proved to be a well-attended event with existing and potentially future clients present, it provided AECOM the perfect platform to showcase the depth of its talent in water management and design.”

Christopher Venemore, CI Director, AECOM

“Very good event with all necessary ingredients for a sustainable venue over the next decades - decision makers, topics, information, networking, first class.”

Horst Doer, International Sales Director Drainage Systems, FRÄNKISCHE

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Tel: +971 4 364 2975 Email: enquiry@iqpc.ae @iqpcmena
CONFERENCE DAY ONE
MONDAY, 29 AUGUST 2016

8:00 Registration

9:00 Chairman’s welcome and opening remarks
Prof. Ayman Mosaliam, Founder, Egypt Green Building Council

Ensuring Egypt’s water security through effective water treatment and wastewater reuse

9:10 Keynote address: Addressing Egypt’s long term water requirements and preparing to safeguard the countries water security
Reserved for representative from Ministry of Housing, Utilities & Urban Development

9:30 Panel discussion: Investigating the plans for developing wastewater capacity in Egypt to identify the major challenges
• Examining the infrastructure requirements to deliver 100% wastewater capacity in Egypt
• Exploring the major challenges that will need to be overcome to achieve the governments objectives
• Discussing the best practices and wastewater solutions that will be employed in Egypt to deliver a world class wastewater network
Dr. Sameh Abdelgawad, Chairman, Misrconsult

10:00 Managing your water resources effectively to ensure long term water security and maximise social, economic and environmental benefits
• Highlighting the economic impact of poor water resource management to identify the cost of inaction
• Developing strategies to effectively reuse treated water to minimise the demand on fresh water supplies
• Educating the end users as to the benefits of reuse to create a sustainable ecosystem for wastewater industry
Dr. Hussein El-Atfy, Secretary General, Arab Water Council

10:30 Networking break

11:00 Assessing rural sanitation in Egypt: Introduction to new strategic concepts to address the countries capacity requirements
• Tackling rural sanitation utilising modern concepts in order to effectively manage the treatment of wastewater
• Discussing the cost considerations on new concepts to understand their viability in the Egyptian market
• Detailing the scale of the problem to understand the ramifications of not taking action on the rural environment
Dr. Ahmed Gaber, Professor of Chemical Engineering, Cairo University and Chairman, Chemonics Egypt, Engineering & Management Consultants

12:00 Case study: Exploring best practices in wastewater reuse and management – the Tunisian experience
Tunisia is a regional leader in wastewater reuse. They have had standards and regulations for over 30 years and have continually been updating these to ensure their industry is in line with global best practices. The country has been successful in particular with using wastewater for agricultural purposes and this case study will look at how they achieved their successes and what lessons can be learned by Egypt from their experiences. The case study will look at:
• Implementation of regulation and compliance of water standards
• Setting limits for the standard and quality of effluent that can be discharged into the sewerage network
• Assessing the revenue streams that can be realised through the sale of treated wastewater
Habib Omran, President Director General, ONAS – National Office Sanitation Tunisia

12:30 Examining the importance of revising wastewater codes to successfully develop well engineered wastewater treatment project
• Discussing the purpose of codes and their importance in developing the wastewater industry in Egypt
• Developing codes applicable to Egypt’s environmental conditions
• Examining the how local environmental conditions effect the quality of wastewater
Eng. Waheed Ellathy, Tender Manager, New Urban Communities Authority

13:00 Special focus: Examining Egypt’s future projects to identify the potential opportunities for private sector involvement
• Detailing the future water projects that will be developed in Egypt to meet growing demand for water and wastewater treatment
• Analysing the financing and investment structures that are appropriate for the water sector to improve bankability of projects
• Discussing PPP and other alternative methods of funding water projects to diversify investor base
Atter Hannoura, Head of PPP Central Unit, Ministry of Finance

13:30 Case study: Assessing the wastewater requirements and technologies that will be utilised in the New Cairo district
The 70,000 acre site was formulated by presidential decree in 2000 and was planned to accommodate 5 million people. It is approximately 50% complete and the infrastructure for the rest of the development is being put in place. The site requires decentralised wastewater treatment and the case study will discuss the design of the new site as well as the requirements needed to establish a comprehensive wastewater network in one of the city’s newest suburbs.
Dr. Yasser Mostafa, Chairman & CEO, Hydro Consult

14:00 In focus: Abu Rawash Wastewater expansion project
Egypt is developing what will become one of the largest wastewater treatment plants globally. The project entails the raising of the capacity from 1.2 M m3 day to 16 M m3/day in addition to transforming the plant from a primary to a tertiary treatment plant. The 2.4 billion Euro project has been awarded to a consortium of Egyptian and international companies and will be spearheaded by Aqualia who will be responsible for the design and procurement of materials for the project. Aqualia will detail the plant design and outline the modern technologies that will be utilised to develop a world class WWTP that will serve 5.5 million inhabitants in Cairo. This session to explore:
• Investigating latest treatment technologies that will be used to convert Abu Rawash from a primary to a tertiary treatment plant
• Ensuring timely project delivery by establishing an effective supply chain for parts and materials
• Discussing the challenges in converting WWTPs from primary to tertiary treatment in order to develop effective strategies to overcome them
Antonio Atienzar Espana, General Manager, Orascom Aqualia

14:30 Closing remarks and networking lunch

15:30 End of conference day one
CONFERENCE DAY TWO
TUESDAY, 30 AUGUST 2016

8.30 Registration

9.15 Chairman’s welcome and opening remarks
   Prof. Ayman Mosallam, Founder, Egypt Green Building Council

Exploring the planning design and construction of wastewater treatment plants to develop world-class infrastructure

9.25 Exploring the benefits of implementing a nationwide planning strategy in developing a cohesive wastewater network in Egypt
   • Establishing a long-term national framework to enable the seamless development of wastewater infrastructure
   • Involving all the government stakeholders to ensure all plans are centrally updated and don’t deviate from national strategy
   • Examining the cost of mobile wastewater units to assess the feasibility of utilising these units in Egypt’s rural areas
   Eng. Dina Soliman, Director Planning, Beni Suef Wastewater Company

10.05 Highlighting best practices for design and construction of wastewater treatment facilities to improve plant delivery
   • Utilising a qualified process consultant alongside the main consultant to ensure that plant layout is designed to maximise efficiency
   • Providing detailed and precise construction specifications and realistic schedule of works to deliver treatment plants with minimal delays
   • Employing a strong inspection team to ensure that all works are delivered to the required standards and treatment effectiveness is not compromised
   Dr. Mahmoud Heikel, Director of Water & Wastewater Department, Khatib & Alami

10.35 Discussing the impact of lack of availability of land for wastewater treatment plants to understand the options for water treatment in rural areas
   • Assessing the cost of land in rural areas to identify which treatment solutions are most viable
   • Analysing the optimal cost per m3 of treatment in order to make the most cost-effective decision on rural treatment plants
   • Exploring the use of modular treatment units to enable future expansion when demand increases
   Dr. Sameh Abdelgawad, Chairman, Misrconsult

11.05 Networking break

11.20 Choosing the appropriate treatment technology for use in Egypt Membrane Bio Reactor (MBR) or Sequencing Batch Reactor (SBR)
   • Assessing the cost per m3 requirements to understand which technology provides cost-effective solutions
   • Analysing the plant footprints of both technologies to understand which systems should be used where space is restricted
   • Investigating the operation and maintenance costs to identify if MBR or SBR provides the best long term investment
   Dr. Mahmoud Heikel, Director of Water & Wastewater Department, Khatib & Alami
   Dr. Magdy Abou Rayan, President, International Water Technology Association

12.00 Examining the latest pump technologies to reduce operational costs in modern wastewater treatment plants
   • Assessing the cost of pumping as a percentage of overall energy cost to understand the return
   • Discussing the use of dual speed and variable speed pumps to control energy usage and minimise costs
   • Understanding the process requirements to ensure that the appropriate pump is selected to maximise plant efficiency
   Eng. Anwar Manaf, Sanitation Consultant, Holding Company for Water & Wastewater

12.40 Utilising waste to energy technology to develop energy neutral WWTPs – Gabal Al Asfar Case Study
   • Investigating the cost of generating energy from wastewater to understand if it provides a significant return on investment
   • Analysing the use of Microbial fuel Cells (MFC) to produce electricity from wastewater as an alternative energy source
   • Harnessing the heat from the fuel cells to increase the temperature of sludge to facilitate the anaerobic digestion process and produce biogas
   Eng. Bahaa Afifi, Project Manager, ACE Moharram Bakoum Eng. Mohamed Younis, Project Manager, Gabal Al Asfar Wastewater Treatment Plant

Discussing the environmental and sustainability challenges in protecting Egypt’s agricultural land

13.20 Investigating the environmental impact of wastewater leakage in the rural areas to safeguard the countries agricultural land
   • Reducing the leakage of contaminated water to preserve land fertility and reduce impact on crop production
   • Replacing the clay piping network to minimise water leakage and reduce maintenance costs
   • Understanding the effect of leakage on groundwater supplies to minimise contamination of limited fresh water sources
   Prof. Ayman Mosallam, Founder, Egypt Green Building Council
   Eng. Dina Soliman, Director Planning, Beni Suef Wastewater Company
   Eng. Mohamed Ghoniem, Department Director, Beheira Water & Wastewater Company

14.00 Discussing the best practices for industrial wastewater treatment to reduce water pollution
   • Assessing the benefits of using lime as a cost effective way to neutralise acidic industrial wastewater
   • Utilising chemical precipitation to remove solids from wastewater by sedimentation
   • Analysing the benefits of Anaerobic Biological treatment for industrial waste to assess if longer detention time to stabilisation is offset by the production of methane gas as a byproduct
   Dr. Helalley Abdel Hady Helalley, Chief of Industrial Wastewater Management, Alexandria Sanitary Drainage Company

14.30 Closing remarks and networking lunch

15.30 End of conference

The published programme is correct at time of printing. However, given the seniority of our speakers and the nature of their roles, speakers may subsequently substitute or remove themselves from the programme. This is always regrettable, and we will always try to replace the speaker with a speaker with equivalent insight. For the most up-to-date programme, please visit the event website.
IQPC has been hosting events developed for senior executives for more than 40 years. We serve businesses representing over 15 sectors at more than 1,700 conferences around the globe. Our client list includes corporations such as Veolia, National Bank of Egypt, Peri, Doka, Orascom Construction, Sika, ETA Star, Kharafi National, GE, Siemens, BASF and Dow Chemicals, just to name a select few. Senior executives travel from around the world to our events looking to garner best practices and concrete solutions to assist them in improving their organisations. IQPC provides many different platforms for you to increase your market share, stay ahead of your competition, increase awareness to your target audience and position yourself as a key supplier to the Egyptian wastewater industry.

Your platform – getting your message across:
Because we know that each sponsor has a different message, business development goal and branding objectives, each sponsorship package is tailored to your corporate strategies. Though most sponsorship offers multiple levels and types of exposure, there are a few main ways for you to highlight your corporate strengths:

1 Thought Leadership
As a sponsor at the Wastewater Egypt your company will gain second-to-none exposure to senior-level decision makers at the point in time that they are seeking solutions, information and systems for improving their firm’s strategies. For a select few sponsors, you can build your reputation as a market leader through subject-specific presentations, workshops and focus days. This highly selective sponsorship allows your firm to establish tremendous capability and expertise in your specialty as well as highlight successful work completed with your clients.

2 Premium Branding
We bring together buyers and suppliers for collaboration, networking and knowledge sharing. Branding is often a major initiative for our clients who are seeking to get the message out about their offerings. Build your company’s brand and visibility in front of senior decision-makers in order to get shortlisted. As a sponsor, your company branding will appear alongside the global leaders associated with best practices in this field. Our dedicated marketing team will help you achieve your promotional aims in the months leading up to the conference. IQPC leverages multiple marketing channels including online, direct mail, email, press releases, media partnerships and social media to publicise the event and increase awareness about your participation to our extensive database, as well as through our network of partners.

3 Featured Networking Events
Networking and information sharing are two major aspects of our conferences and IQPC builds in many opportunities for sponsors to benefit from meeting industry leaders. Focused and high-level, our events will provide you with the perfect environment to initiate new business relationships, identify upcoming opportunities and achieve face-to-face contact that overcrowded tradeshows can not deliver. The exhibition area is designed to be the heart of the event – a place to network and share strategies with key decision makers. Sponsorship opportunities range from exhibition stands to sponsored lunches, cocktail receptions, gala dinners and a host of other branding opportunities.

Additionally IQPC offers a selection of sponsorship opportunities that enables our clients to increase their opportunity to develop new relationships during our events, including one-to-one meetings with clients to understand their challenges, requirements and opportunities.

Wastewater Egypt offers you the perfect platform for you to showcase your solution to your target market and meet and network with senior-level decision makers who are leading the way in the industry.

We specialise in providing business development, marketing and sales solutions that are tailored to specifically deliver on your business objectives. We pay patient attention to what our exhibition and sponsorship customers want, expect, need and value. Every sponsor wants to create customers, develop qualified sales leads, convert leads into sales and retain customers. Our tailored sponsorship packages help you to achieve these objectives.

If you would like more information on sponsorship and exhibition opportunities or to discuss which package will best help you achieve your objectives, please contact Yasir Rauf on +971 4 360 2800 or email partnership@iqpc.ae.

For sponsorship opportunities
Tel: +971 4 360 2800 Email: partnership@iqpc.ae

Do you have a product or service that our senior decision-makers and influencers need?

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EVENT CODE: 17268.005

REGISTRATION

Please complete in BLOCK CAPITALS as information is used to produce delegate badges.

Please photocopy for multiple bookings.

3 WAYS TO REGISTER

CALL: +971 4 364 2975 EMAIL: register@iqpc.ae WEB: www.wastewatereg.com

CONFERENCE PRICES

Book and pay before 26 May 2016 and save up to US$200!

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Standard Pricing - All Other Companies

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*Company must not be part or fully owned, merged, franchised or subsidiary to any company which is headquartered and registered outside of Egypt. Eligibility for this pricing is at the discretion of IQPC.

Prices are stated net of any applicable local taxes.

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I agree to IQPC’s payment terms

If you have not received an acknowledgement before the conference, please call us to confirm your booking.

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