

WASTEWATER EGYPT

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

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



HEAR FROM INDUSTRY EXPERTS INCLUDING:



CONFERENCE CHAIR

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**



Eng. El Sayed Al Ashiri, Chairman, National **Organisation for Potable** Water & Sanitary Drainage

- 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 Ellathy, 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 Afifi, Project Manager, ACE Moharram Bakoum
- Eng. Mohamed Younis, Project Manager, Gabal **Al Asfar Wastewater Treatment Plant**
- Atter Hannoura, Head of PPP Central Unit, Ministry
- 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

STRATEGIC SPONSOR:

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EVENT OVERVIEW

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

WHO WILL YOU MEET?

- Government, ministries and authorities responsible for the development of the wastewater sector
- Regional wastewater companies that operate and maintain the water treatment infrastructure looking to reduce the cost of operation
- Consultants tasked with the design and project management of Egypt's future water treatment infrastructure
- Contractors responsible for the building of the country's water network
- Water treatment companies that can treat wastewater to produce high quality effluent suitable for agricultural and industrial reuse
- Suppliers that can provide cost-effective equipment and materials to the wastewater sector



International Quality & Productivity Centre

IQPC provides business executives around the world with tailored practical conferences, large-scale events, topical seminars and training programmes, keeping them up-to-date with industry trends, technological developments and the regulatory landscape. IQPC conferences are market leading "mustattend" events for their respective industries. IQPC produces more than 1,700 events annually around the world, and continues to grow. Founded in 1973, IQPC now has offices in major cities across continents including: Bengaluru, Berlin, Doha, Dubai, London, New York, Singapore, Sydney, Tampa, and Toronto. IQPC leverages a global research base of best practices to produce an unrivalled portfolio of conferences. www.iqpc.ae

CONFERENCE DAY ONE

MONDAY, 29 AUGUST 2016

8:00 Registration

9:00 Chairman's welcome and opening remarks
Prof. Ayman Mosallam, 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

- 09:30 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

- 10:30 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
- 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

11:30 Networking break

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

Exploring current and future opportunities for the development of Egypt's wastewater infrastructure

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 1.2M m3 day to 1.6M 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 in frastructure
- 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

Eng. Bahaa Afifi, Project Manager, ACE Moharram Bakoum

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 the 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

Utilising modern equipment and technologies to reduce the cost of operation and maintenance

11:20 Choosing the appropriate treatment technology for use in Egypt Membrane Bio Reactor (MBR) vs Sequencing Batch Reactor (SBR)

- Assessing the cost per m3 requirements to understand which technology provides value for money
- 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
- Anaysing 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 safeguards 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

Eng. Dina Soliman, Director Planning, Beni Suef Wastewater Company

Eng. Mohamed Ghoniem, Department Director, Beheira

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 fo 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.

SPONSORSHIP AND EXHIBITION OPPORTUNITIES

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.

Do you have a product or service that our senior decisionmakers and influencers need? 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.



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

REGISTRATION

Event Code: 17268.005

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.wastewateregypt.com

CONFERENCE PRICES

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

Companies Headquartered in Egypt*

	Early Bird Price Payment before 26 May 2016	Early Bird Price Payment before 28 July 2016	Standard Price
2-Day Conference	US\$1499 (Save US\$100)	US\$1549 (Save US\$50)	US\$1599

Standard Pricing - All Other Companies

	Early Bird Price Payment before 26 May 2016	Early Bird Price Payment before 28 July 2016	Standard Price
2-Day Conference	US\$2299 (Save US\$200)	US\$2399 (Save US\$100)	US\$2499

^{*}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

DELEGATE DETAILS

Prices are stated net of any applicable local taxes.

EVENT CODE: 17268.005

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TEAM DISCOUNTS

Group booking discounts available on requests. Email us at enquiry@iqpc.ae for more details.

VENUE & ACCOMMODATION

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Hotel and travel costs are not included in the registration fee. For assistance in your travel and accommodation requirements, please refer to details below:

Room Reservations

Special / corporate rate for room accommodation is available in the hotel. You may contact the hotel directly as per the details above quoting IQPC Middle East or the name of the conference.

Flight Reservations

Contact Bindu Babu at SNTTA Travel & Tours LLC Dubai.

Email igpc@snttadubai.com Tel + 971 4 282 9000 Fax + 971 4 282 9988 Online www.sntta.com

Please book at the earliest for your convenience.

CONFERENCE DOCUMENTATION

If you cannot make the conference, you can still access all presentations delivered throughout the conference days for just US\$450, post event. Contact us on +971 4 364 2975 for further details.

IQPC'S STANDARD TERMS AND CONDITIONS

PAYMENT

- Payment is due in full at the time of registration and includes lunches, refreshments and detailed conference materials. Payment prior to conference is mandatory for attendance. Your registration will not be confirmed until payment is received.
- Your registration will not be confirmed until payment is received and may be subject to cancellation.
 If a booking is received 10 working days before the conference a credit card number will be required to confirm your place, likewise if full payment has not been received before the conference date.
 Any respective payment charges to be borne by the payer. Please ensure that IQPC receives the full invoiced amount.

DISCOUNTS

- All 'Early Bird' Discounts require payment at time of registration and before the cut-off date in order to receive any discount.
 Any other discounts offered by IQPC (including team discounts) require payment at the time of registration.
 Discounts cannot be combined with any other offer.

CANCELLATION, POSTPONEMENT AND SUBSTITUTION POLICY

- CANCELLATION, POSTPONEMENT AND SUBSTITUTION POLICY

 You may substitute delegates at any time by providing reasonable advance notice to IQPC.

 For any cancellations received in writing not less than eight (8) days prior to the conference, you will receive a 90% credit to be used at another IQPC conference which must occur within one year from the date of issuance of such credit. An administration fee of 10% of the contract fee will be retained by IQPC for all permitted cancellations. No credit will be issued for any cancellations occurring within seven (7) days (inclusive) of the conference.

 In the event that IQPC cancels an event for any reason, you will receive a credit for 100% of the contract fee paid. You may use this credit for another IQPC event to be mutually agreed with IQPC, which must occur within one year from the date of cancellation.
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 In the event that IQPC postpones an event for any reason and the delegate is unable or unwilling to attend on the rescheduled date, you will receive a credit for 100% of the contract fee paid. You may use this credit for another IQPC event to be mutually agreed with IQPC, which must occur within one year from the date of postponement.

 Except as specified above, no credits will be issued for cancellations. There are no refunds given under any circumstances.
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PROGRAMME CHANGES

Please note that speakers and topics were confirmed at the time of publishing; however, circumstances beyond the control of the organisers may necessitate substitutions, alterations or cancellations of the speakers and/or topics. As such, IOPC reserves the right to alter or modify the advertised speakers and/or topics if necessary. Any substitutions or alterations will be updated on our web page as soon as possible.

Please email our database manager at enquiry@iqpc.ae to inform us of any incorrect details which will be amended accordingly.

