



UNDER THE PATRONAGE OF THE EGYPTIAN PRIME MINISTER

# 11<sup>TH</sup> WATER DESALINATION CONFERENCE IN THE ARAB COUNTRIES

UNDER THE THEME: NATIONALIZATION OF DESALINATION INDUSTRY IN THE ARAB WORLD



## CALL FOR PARTICIPATION AND REGISTRATION

18-19 April 2017

INTERCONTINENTAL CITY STARS

CAIRO - ARAB REPUBLIC OF EGYPT



WWW.ARWADEX.NET

PAST EDITIONS COLLABORATORS

### Organizer

**EXICON**  
International Group  
مجموعة أزيكون الدولية ض.م.  
Part of the SPECIALIST Group  
www.exicon-specialist.com

### In Collaboration With

  
Holding Company  
for Water & Waste Water

  
وزارة الإسكان والعراق والمجتمعات العربية





## OVERVIEW

Water scarcity is one of the important issues faced by many Arab countries that have experienced over the last two decades a huge population growth, accompanied by an accelerating growth in different areas of both economic and social developments.

Therefore, in order to provide water to meet their local needs, many Arab countries have turned to the sea water desalination, as a strategic option and the desalination industry became one of the most important current industries. Consequently, it was necessary to study and work on the techniques and economics of this industry as well as its feasibility, costs, operation and maintenance and to consider the

different environmental issues affecting it and affected by it, which confirms the importance of learning from the past experiences and assessing them in order to benefit therefrom in the reorganization and restructuring of water desalination sector in the region countries.

Several factors, including the population growth, economic growth, available water resources pollution and climate change, are still giving rise to the urgent need for additional reliable water resources; enhancing thus the role of seawater desalination which is considered one of the best solutions for the world water scarcity problems in the 21st century.

## PRESIDENCY OF THE CONFERENCE

This edition of the Water Desalination Conference in the Arab Countries (ARWADEX) 2017 is held in the city of Cairo in the Arab Republic of Egypt, in cooperation with the Holding Company for Potable Water and Sanitary Drainage, under the umbrella of the Ministry of Housing, Utilities and Urban Development and under the high patronage of HE Egyptian Prime Minister Eng. Sherif Ismail. The presidium of the conference is as follows:

- **Supreme President of the Conference**  
**HE Dr. Mostafa Madbouly**  
**Minister of Housing, Utilities and Urban Development**
- **Chairman of the Conference**  
**Engineer Mamdouh Reslan**  
**Chairman of the Holding Company for Water and Wastewater (HCWW)**



## SCIENTIFIC ADVISORY COMMITTEE

The conference committees are formed by a number of experts, scientists and university professors working all in the field of water desalination, chemical engineering, mechanical engineering, civil engineering, and environmental engineering and oceanography from different Arab countries.

N	Name	Organization	Country
1	Dr. Mohammad Abdulaziz Al Fouzan	Scientific committee chairma - Consultant and expert in water desalination engineering	Saudi Arabia
2	Dr. Rifaat Abdel Wahaab	Scientific committee rapporteur - Holding company for water and waste water	Egypt
3	Eng. Ahmad Al Mudaiheem	Consultant and international expert in water desalination	Saudi Arabia
4	Prof. Adel Sharif	University of Surrey - Qatar environment and energy research institute (QEERI)	UK
5	Prof. Iqbal Mujtaba	University of Bradford	UK
6	Prof. Mohammad Alabri	Portal Sultan Qaboos university	Oman
7	Prof. Haneef Sultan	Consultant and expert in water desalination engineering	United Arab of Emirates
8	Prof. Salah Baioumi	Holding company for water and waste water	Egypt
9	Prof. Ahmad Mowad	Holding company for water and waste water	Egypt
10	Prof. Yahya Elsaie	Elsaie engineering	Egypt
11	Prof. Mohammad Haikal	Desalination consultant - Housing and building national research center building national research center	Egypt
12	Prof. Hosam Shawky	Desert research center	Egypt
13	Prof. Osama Haikal	Consultant and expert in water desalination engineering	Egypt
14	Prof. Rushdi Zahran	Alexandria university	Egypt
15	Dr. Ahmad Khalil	Environment and technology center - Fayoum university	Egypt
16	Prof. Kamal Al Nahas	Suez canal authority	Egypt
17	Prof. Osama Abu Alanen	Petroleum research institute	Egypt
18	Prof. Alaa Eid	Metallurgical development research center	Egypt



## ORGANIZING AND DOCUMENTARY COMMITTEE

N	Name	Organization	Country
1	Dr. Zohair Mohammad Al Sarraj	Organizing Committee Chairman - Consultant and expert in water desalination engineering	Saudi Arabia
2	Dr. Rifaat Abdel Wahaab	Research and development sector - Holding company for water and waste water	Egypt
3	Mr. Ilyas Fatani	ExiCon Int'l Group (the organizing company)	Saudi Arabia
4	Mohey Ahmad	The development of institutional performance sector - Holding company for water and waste water	Egypt
5	Gen. Mohey Al Sairafy	Public relations admin - Holding company for water and waste water	Egypt
6	Ms. Niveen Abdulrahman	Awareness admin - Holding company for water and waste water	Egypt

## MEDIA COMMITTEE

N	Name	Organization	Country
1	Mrs. Rola Al Misshal	ExiCon Int'l Group (the organizing company)	Saudi Arabia
2	Gen. Mohey Al Sairafy	Public relations admin - Holding company for water and waste water	Egypt
3	Mr. Fawzi Abdulhalim	Alahram newspaper	Saudi Arabia
4	Ms. Suzan Zaki	Aljournhouria newspaper	Egypt
5	Mr. Ahmad Hasan	Alakhbar newspaper	Egypt
6	Mr. Marco Adel	Youm 7 newspaper	Egypt



## OBJECTIVES

- Exchange experiences and expertise between the stakeholders in the Arab Countries in the field of desalination industry and environment, through the presentation of successful experiences and expertise to develop and promote water desalination technology.
- Promote and enhance the research cooperation and technical development among the research authorities in the Arab World and internationally, by allowing the cooperation in the preparation of specialized research studies in line with the region environment and building communication channels between the individuals and authorities concerned with the research in the field of water desalination, with the aim of joining the research efforts.
- Encourage the private sector to invest in water desalination projects by offering and presenting investment opportunities in the construction, operations and maintenance fields.
- Contribute to the transfer and localization of the technology in the Arab world by urging companies specialized in the field of seawater desalination to establish their plants in the region.
- Raise the level of workers in the field of seawater desalination through training, rehabilitation and transfer of expertise to the next generation of engineers and technicians.
- Explore the feasibility of the use of alternative energies in the desalination field as well as the steps taken so far in the Arab countries.

# OVERVIEW OF THE PREVIOUS EDITION

The previous editions of the Water Desalination Conferences in the Arab Countries (ARWADEX) have laid new foundations for the exchange of experiences between the concerned parties in the Arab countries and opened new horizons for research collaboration in order to develop this technology and establish it in the Arab World by finding appropriate mechanisms and strategies.

The last edition of this conference included many sessions, seminars and professional discussions, during which more than 60 speakers from different Arab and foreign countries have presented papers and exchanged their experiences on the issues and topics raised during the conference, including the following:



## SCIENTIFIC SESSIONS

- Thermal desalination
- Reverse osmosis desalination
- Impact of water desalination on the environment and the effects thereof on the desalination industry
- Application of nanotechnology in the water desalination.



## STUDIES & RESEARCHES STUDIES

Uses of alternative and renewable energy in water desalination and development of the horizons of nuclear energy uses in water desalination.



## DESALINATION ECONOMICS DISCUSSION SESSIONS

- Round table on “the future of the privatization of the water desalination industry in light of the current economic and scientific situation”
- Discussion on the advisory activities, contracting and industry of water desalination (problems of design and implementation in the desalinated water transfer systems projects).



## PROFESSIONAL DIALOGUE & DISCUSSIONS SESSIONS

Assessment of the performance of the pumping systems, determination of the standards to be adopted when choosing the pumps, pumps recycling feasibility study, technical problems related to the performance of boilers and rehabilitation of boilers.

# ARWADEX 2017 CONFERENCE AGENDA

According to the conference agenda, many professional discussions will be held, in addition to scientific seminars and workshops addressed by specialists from the different sectors related to the water desalination field, its latest products and services. A group of experts from various local, regional and international authorities and organizations will contribute to the scientific aspect of the conference.

In fact, ARWADEX is one of the most important international conferences in the field of water

desalination and the largest regional specialized gathering designed to discuss water desalination researches and sustainable technologies and economics.

ARWADEX conferences have always contributed, and will continue to contribute to the provision of available investment opportunities in the field of water desalination and researches on the issues related to the advisory activities and contracting in water desalination field, to the private sector.



## WHO SHOULD ATTEND?

1. Ministries of electricity, energy, water and desalination.
2. Ministries of public works and transportation.
3. Governmental bodies and official decision-makers.
4. Development authorities.
5. International water desalination organizations.
6. Concerned non-governmental organizations.
7. Regional and international monetary funds.
8. Investment banks and financial advisory sector.
9. Managers.
10. Contract managers.
11. Heads of departments and contractors of operations and maintenance.
12. Heads of research and development departments.
13. Field advisors and experts.
14. Water geologists and environmental scientists.
15. Arab and international companies specialized in water treatment.
16. Specialized facilities in water desalination stations.
17. Engineers and technicians in desalination stations.
18. Research institutions.

## CONFERENCE TOPICS

- Processes adopted in the Arab countries to prepare the specifications, award water desalination projects and supervise the implementation thereof.
- International research trends of current and future researches.
- Future of the desalination industry and its localization in the Arab countries.
- Enhancement of the energy efficiency in the desalination stations – alternative energies.
- Developments of traditional desalination techniques and promising desalination techniques.
- Foundations to build and document desalination experiences.

## SCIENTIFIC SESSIONS

- Developments in the reverse osmosis and thermal desalination.
- Promising desalination techniques.
- Efficiency of the alternative and renewable energy in water desalination.
- Raising the efficiency of traditional energy (increasing the production of desalinated water using the same quantities of energy).

## PANEL DISCUSSION SESSIONS

- Processes adopted in the Arab countries to prepare the specifications, award water desalination project and supervise the implementation thereof:**
  - Presentation of the (UAE, Kuwaiti, Bahraini and Saudi) experiences.
  - Determination of the specifications for the award procedures.
  - Supervision and implementation.
- International research trends of current and future researches:**
  - Researches topics.
  - Research centers financing.
- Registration of patents and researches.**
  - Provision of the opportunity to apply researches on a commercial level.
- Future of the desalination industry and its localization:**
  - Role of the governmental institutions in the localization of the water desalination industry.
  - Role of developers, private sector and advisors in the localization of the water desalination industry.
- Challenges within investment in desalination.**



## CALL TO SUBMIT PAPERS

The organizing committee of the conference would like to call the researchers, specialists and bodies to submit complete papers for successful researches and experiments in the different aspects related to the

conference topics.

On another hand, the Scientific Committee will undertake to review all summaries and their contents related to the subject of the conference.

### IMPORTANT DATES

- Deadline for receiving the full paper [February 15, 2017](#)
- Final notice of acceptance of papers [February 25, 2017](#)

### BENEFITS PROVIDED TO RESEARCHERS

The conference organizers will bear all the following costs and expenses of the main speakers whose papers are accepted (one researcher for each paper):

- Costs of hotel accommodation at Cairo Intercontinental City Stars during the conference period (up to 3 nights, single room, bed & breakfast

only)

- Roundtrip ticket to Cairo up to USD 600 from Arab countries and up to USD 1200 from outside the Arab world, economy class
- Airport pickup and drop-off

### HOW TO SUBMIT YOUR PAPER?

#### ACCEPTED PAPERS REQUIREMENTS:

- Fill the form of submission of the paper, adding the title of the paper in both Arabic and English languages
- The accepted format is MS Word program, please follow the template specifications which is available on the website
- Complete the summary form that is available on the conference website
- Send a personal photo by email in high resolution

- Attach a clear copy of the passport to the email (for those who needs a visa to enter the Arab Republic of Egypt, please make sure that your passport is valid for at least 6 months)

#### THE FILE SHALL BE SENT, ALONG WITH THE FORM:

By email to [speak@arwadex.net](mailto:speak@arwadex.net)

Through the conference website: [www.arwadex.net](http://www.arwadex.net)

### REGISTRATION AND PARTICIPATION FEES

- USD 500 per person.
- Egyptian Pound 1000 for Egyptian participants



## HOW TO RESERVE YOUR PLACE



### TO PARTICIPATE IN THE EVENT

To participate in ARWADEX 2017, kindly fill the registration form available on the conference website or fill the attached form and send it by email or fax to the organizing committee.



### TO SPEAK IN THE EVENT

To participate in ARWADEX 2017 as a speaker, kindly fill the paper submission form and send it along with the required documents through the conference website. The scientific committee will contact you thereafter for more details if needed.

## ARWADEX 2017 ADMINISTRATION BUREAU



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### SCIENTIFIC COMMITTEE ADDRESS

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### CAIRO OFFICE

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Dr. Rifaat Abdel Wahaab - HCWW  
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**WEBSITE:** For news and information, kindly visit: [www.arwadex.net](http://www.arwadex.net)



مؤتمر تحلية المياه الحادي عشر في البلدان العربية  
11TH WATER DESALINATION CONFERENCE  
IN THE ARAB COUNTRIES

## استمارة ورقة العمل CALL FOR PAPER FORM

فضلاً أكمل الاستمارة  
وأرسلها إلى  
البريد الإلكتروني  
Please fill this form & send it to

[speak@arwadex.net](mailto:speak@arwadex.net)

First Name	الاسم الأول	Middle Name	الاسم الأوسط	Last Name	الاسم الأخير
<input type="text"/>					
Organization	الجهة	Position	المنصب	Industry	النشاط
<input type="text"/>					

### Contact Details

### معلومات التواصل

Mobile No:	الجوال:	Zip Code:	الرمز البريدي:
Telephone:	الهاتف:	P.O. Box:	صندوق البريد:
Fax:	فاكس:	Country:	الدولة:
Email:	البريد الإلكتروني:	City:	المدينة:
Website:	الموقع:	Address:	العنوان:

### Paper Information

### معلومات عن ورقة العمل

#### Paper Title:

#### عنوان الورقة

Kindly provide a brief description of your work history (biography) as a separate file attached to this form, including your current position and major accomplishment. In addition to a photo passport in high resolution 300dpi. Using the summary template that is available on the website, incomplete applications will be automatically disqualified. (All the official forms are available at the download center Online).

### Contact Details

LCD Projector:	Other please specify:	معلومات التواصل
CD/ DVD Player:	<input type="text"/>	
Flip chart & pens:	<input type="text"/>	

#### Date

#### التاريخ

#### Signature

#### التوقيع



مؤتمر تحلية المياه الحادي عشر في البلدان العربية  
11TH WATER DESALINATION CONFERENCE  
IN THE ARAB COUNTRIES

## استمارة التسجيل REGISTRATION FORM

للتسجيل، فضلاً أكمل الاستمارة  
وأرسلها إلى  
البريد الإلكتروني

Please fill this form & send it to

info@arwadex.net

First Name	الاسم الأول	Middle Name	الاسم الأوسط	Last Name	الاسم الأخير
Organization	الجهة	Position	المنصب	Industry	النشاط

### Contact Details

### معلومات التواصل

Mobile No:	الجوال:	Zip Code:	الرمز البريدي:
Telephone:	الهاتف:	P.O. Box:	صندوق البريد:
Fax:	البريد الإلكتروني:	Country:	الدولة:
Email:	فاكس:	City:	المدينة:
Website:	الموقع:	Address:	العنوان:

### Organizing Committee Contact Details

### معلومات التواصل مع اللجنة المنظمة

Tel:	+966 11 460 2332 - Ext. 105	هاتف:
Fax:	+966 11 460 2316	فاكس:
email:	www.arwadex.net	بريد إلكتروني:
Visit:	info@arwadex.net	زيارة:

### التسجيل والمشاركة

500 دولار أمريكي للشخص الواحد.  1000 جنيه مصري للمشاركين المصريين.

### Payment Mode

### طريقة الدفع

Account Name: Specialist Group	اسم الحساب: شركة مجموعة المختص لتنظيم المعارض والمؤتمرات
IBAN: SA60 4000 0000 0018 0700 3302	رقم الأيبان:
Account No.: 1807003302	رقم الحساب:
SWIFT Code: SAMBSARI	رمز سوفت:

بنك سامبا - المملكة العربية السعودية SAMBA Bank - Saudi Arabia

يجب إرسال الاستمارة بالفاكس أو البريد الإلكتروني إلى اللجنة المنظمة

a copy of the transfer slip must be faxed or mailed to the organizers

Date	التاريخ	Signature	التوقيع