



21<sup>st</sup> International Water Technology Conference  
**IWTC-XXI** [www.iwtc.info](http://www.iwtc.info)

28 -30 June 2018

Ismailia, Egypt  
 Tolip Elforsan, Ismailia



Organized By:



International Water Technology Association [www.iwta.info](http://www.iwta.info)

In co-operation with



Egyptian Chinese University



Mansoura University



Port Said University



Holding Company for  
Water and Wastewater



Water Research Center



Engineering Syndicate

**Academic Organizers**

- ✦ Academy of Scientific Research and Technology, (ASRT), *Egypt*.
- ✦ Clusters of Scientific Innovation in the Middle East and North Africa, (COSIMENA), *Germany*
- ✦ French Geological Survey (BRGM), France's Public Institution in Earth Science Applications, *France*
- ✦ Kuwait Institute for Scientific Research (KISR), *Kuwait*
- ✦ National Research Council (CNR), *Italy*
- ✦ National Water Research Centre (NWRC), *Egypt*
- ✦ Petru Maior University of Tirgu-Mures (UPM), *Romania*
- ✦ RWTH Aachen University, (RWTHAU), *Germany*
- ✦ Shirshov Institute of Oceanology, RAS, *Russia*
- ✦ Technische Universität Berlin Campus El Gouna, (TUBGEC), *Germany*



**Objectives**

*This edition of International Water Technology Conference is the twenty first of event series initiated by The International Water Technology Association (IWTA) twenty years ago. The conference offers an opportunity to present and discuss the most recent technological innovations and scientific developments associated with the water resources management, water treatment technology, environmental and ecological systems, agricultural-water related issues and water infrastructure. The conference brings together researchers, scientists, water professionals, end-users, managers, decision makers and stakeholders from universities, research institutes, governmental agencies, industries and other interest groups. The conference participants will discuss and develop a general framework for minimizing and preventing the deterioration in water quality, remediation, restoration, innovative treatment technologies, energy consumption, and optimizing water resources planning and management facing scarcity. On the sidelines of the conferences, international exhibitions have been hold that offer the perfect occasion for discussing the new trends in the field of water industry. The exhibitors are contractors, manufacturers and all specialized companies in water industry field.*

**Under The Auspices of Their Excellencies**

- Mostafa Madbouli** Minister of Housing & Urban Communities
- Mohamed Abdel Aaty** Minister of Water Resources and Irrigation
- Khaled Abdelghaffar** Minister of Higher Education & Scientific Research
- Mohab Mameesh** Chairman & Managing Director, Suez Canal Authority
- Adel El-Ghadban** Port Said Governor

**Conference Honorary Chairmen Board**

- Ismail Abdel Ghafar** President of Arab Academy for Science , Technology and Maritime Transport , Egypt
- Ashraf Elshihy** President of Egyptian Chinese University, Egypt
- Mohamed Elkenawy** President of Mansoura University, Egypt
- Shams Elden Shaheen** President of Port Said University, Egypt
- Mahmoud Saqr** President of Scientific Research and Technology Academy, Egypt
- Mamdouh Raslan** Chairman, Holding Company for Water and Wastewater, Egypt

**Conference Chairman**

- Magdy Abou Rayan**  
President of IWTA and Ex-President of MansouraUni, Egypt.

**Conference Vice Chairmen**

- Andrea Scozzari** CNR-ISTI, Italy
- Hani Sewilam** RWTH Aachen University, Germany

**Conference Secretary General**

- Kamal El-Nahhas** Suez Canal Authority, Egypt

**Organizing Committee**

- Abd Elnaby Kabeel** Tanta University, Egypt
- Ali Al Magar** Environment Consult, KSA
- Ayman Ibrahim** Port-Said University, Egypt
- Ibrahim Khalid** MiniaWater and Wastewater co, Egypt
- Juneseok Lee** San Jose State University, CA, USA
- Lachen Benaabidate** USMBA-Fez, Morocco
- Mohamed Abuhashim** Zagazig University, Egypt
- Mohamed Ali** AASTMT, Egypt
- Mohamed Azaroual** BRGM, France
- Nabil Hassan** Zagazig University, Egypt

Oliver Saavedra	Universidad Privada Boliviana, Bolivia
Safey Elden Metwaly	Desert Research Center, Egypt
Sherine S. Ismail	NRI, NWRC, MWRI, Egypt
Tamim Younos	GWI Academy, Washington, DC, USA

### Scientific Committee

#### Scientific Committee Chairmen

Andrey Kostianoy	Russian Academy of Sciences, Russia
Abdel Razik Zidan	Mansoura University, Egypt

#### Scientific Committee Members:

Abdelazim Negm	Zagazig University, Egypt
Abdelmoneim Abdelbary	AASTMT, Egypt.
Adel Alhadad	Water Research Center, Kuwait
Ahmed Rashed	Drainage Research Inst., NWRC, Egypt
Amgad Alansary	Cairo University, Egypt
Amr El-Feki	Mansoura University, Egypt
Ghada El Serafy	Deltares, Netherlands
Ibrahim Gar Al-alm	Mansoura University, Egypt
Martina Zelenáková	Technical University of Košic, Slovakia
Matthias Barjenbruch	Technische Universitaet Berlin, Germany
Mohamed Ashour	Assuit University, Egypt
Mohamed Basiouny	Egyptian Chinese University, Egypt
Moustafa Soliman	ASCE, Egypt
Nabil Elmenshawy	Port-Said University, Egypt
Nikolaos Tzoupanos	Technische Universitaet Berlin, Germany
Pavel Vlasak	Academy of Science, Czech Republic
Raja Ben Amar	Sfax University, Tunisia
Rifaat Abdel Wahaab	HCWW, Egypt
Saad Ragab	Virginia Tech. University, USA.
Sohair I. Abou-Elela	National Research Center, Egypt

#### Executive and Program Committee

Adel Abd El Aziz	Mansoura University, Egypt
Asmaa Yasser	Mansoura University, Egypt
Kamal El-Nahas	Suez Canal Authority, Egypt (chairman)
Madonna Magdy	Mansoura University, Egypt
Mohamed El-Rashidy	AASTMT, Egypt
Nader Gharib	AASTMT, Egypt
Safya El-Gayar	Agriculture Research Center, Egypt
Walaa Ibrahim	IWTA, Egypt
Walaa Tarek	Mansoura University, Egypt

#### Public Relations & Media

Mohammed Zakaria	Mansoura University, Egypt
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#### Registration

Regular registration	\$420 USD
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On-site registration fees \$480 USD

#### Registration for local participants:

Registration with accommodation 2950 EGP

Without accommodation 1500 EGP

#### Registration fees for participants cover:

- Conference briefcase and registration kit
- Opening and closing ceremonies
- Accommodation for 3 days, 2 nights in conference hotel, Breakfast and Dinner per person in a double room
- Coffee breaks
- Conference proceedings and publications
- Attendance to all the conference sessions, keynote talks and workshops

Previous acceptance rate: 45% in average

#### Conference Topics

##### 1. Water Resources Planning and Management:

- Integrated water resources management
- Water resources for sustainable development
- Remote sensing and GIS applications
- Impacts of global and regional climate change
- Water quality and protection
- Trans-boundary water conflict and cooperation issues

##### 2. Water Treatment Technology:

- Waste water treatment technologies
- Computer applications in water treatment
- Purification plants and networks
- Hydraulic machinery
- Environmental impact assessment
- Surface and subsurface wetlands

##### 3. Desalination Technologies:

- Membrane based technology
- Desalination by renewable energy
- Desalination hybrid systems
- New trends in water desalination

##### 4. Groundwater Flow:

- Artificial recharge and active management of aquifers
- Groundwater flow and contamination
- Integrated coastal aquifer management
- Computational groundwater

##### 5. Hydraulics and Hydraulic Structures:

- Water distribution systems analysis
- Sediment transport and modeling techniques
- Maintenance and rehabilitation of hydraulic structures
- IT applications in water infrastructure
- Coastal and harbor engineering

#### 6. Agricultural Water Issues:

- Sustainable agriculture and mega projects
- Agricultural water pollution and re-use technologies
- Low water consumption crops
- New trends in virtual water use and transboundary cooperation

#### 7. Hydroinformatics:

- Water Resources development and modeling process
- Water supply and sanitation technologies
- Water and food scarcity and agriculture developments
- Hybrid hydro models
- Pros and cons of hydro modeling process

#### 8. Nano Technology approach:

- Water Treatment applications
- Desalination Technologies
- Groundwater Flow applications
- Agricultural Water Issues

#### Paper Submission Procedure

Submit your paper directly through [iwtc.info](http://iwtc.info) via the online system and confirm by e-mail and remember the paper ID and your password for future reference. The paper should be prepared according to the author's guidelines posted on the conference website. Violation of the template may lead to rejection of the paper.

#### Reviewing Process & Publication

- All Conference papers will be peer reviewed by the members of the scientific committee and distinguished professors from the academic organizations
- Selected best full papers will be published in the peer reviewed IWTJ ([iwtc.info](http://iwtc.info)).

#### Conference Reward

There will be a reward to the best research paper in each track /topic

#### Deadlines

Abstract submission	01 February 2018
Notification of acceptance	15 February 2018
Submission of revised paper	15 March 2018
Notification of acceptance	10 April 2018

#### Contacts and Inquiries

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