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Introduction

Welcome to our latest newsletter _the tenth edition_ all of which we hope have helped to keep you updated on our latest news and provide you with vital information pertaining the water sector in the Arab countries.

Since its official launch in 2009 at Amman, Jordan; ACWUA has expanded its membership network to reach more than 100 utility members from 18 Arab countries, in addition to private sector companies, NGOs and academic institutions along with more than 190 individual members. Furthermore, ACWUA has also developed important partnerships with several international organizations and donors, introducing potential opportunities to its members.

In order to sustain knowledge sharing with our esteemed members and partners, we trust this newsletter _the second in 2018_ be useful to you and your organization in comprehensively projecting the latest regional and international development in the water sector, and presenting ACWUA’s activities including the preparation of the 5th Arab Water Week and Trenchless Arabia Conference and Exhibition, which will be held during 3–7 March, 2019 in the Dead Sea, Jordan.

Sincerely Yours,

Eng. Khaldon H. Khashman
ACWUA Policy

ACWUA, as a global center of excellence, will work in partnership with water and wastewater utilities in the Arab countries, on building capacities within the utilities, and on instituting best practices within a high quality level. Quality is herein defined as conforming to the requirements and specifications in all matters of training, technical Support (projects management, research & studies) and events management in the field of water and wastewater. Thus ACWUA is committed to meet ISO9001:2015, ISO14001:2015, OHSAS 18001:2007 standards requirements. In addition to, environmental protection, preservation of injuries and other legal requirements.

We committed to achieve this through continual improvement by planning and implementing specified and measurable quality objectives and activities to achieve members and other interested parties’ satisfaction.

We also recognize the importance of the entire company working within this policy and will ensure all aspects of this policy are communicated to our employee’s on a regular basis and the measurable objectives are regularly communicated and updated.

Eng. Khaldon H. Khashman

ACWUA Secretary General
ACWUA Vision

ACWUA, as a global center of excellence, will work in partnership with water and wastewater utilities in the Arab countries, on building capacities within the utilities, and on instituting best practices, in order for the utilities to achieve their objectives.

ACWUA Mission

ACWUA provides its services to its members in the Arab region relying on its own resources and on the competencies inherent within the member utilities, with the objective of providing them with technical support to develop their performance in managing and producing and supplying water and wastewater services, taking into consideration their technical and professional needs—all this through:

1. Operating as a regional platform and expanding internationally, to exchange knowledge between members and experts in the water and wastewater sector.
2. Developing resources and implementing training programs and professional O&M licensing and accreditation programs to support the members in carrying out their missions and tasks in a professional reliable manner with the least costs possible.
3. Developing and applying specifications and standards in the areas of water governance, utilities management and O&M in water and wastewater utilities.
4. Responding to the technical needs of the members through providing advisory services in various aspects that are related to the operations of the utilities through developing a data bank for technical expertise available in the Arab region, and engaging working groups composed from those utilities for this purpose.
5. Developing and publishing documents, guides, reports and scientific content that is responsive to the needs of the members and sector experts, all the while considering the regional context and challenges that are faced by the utilities.
The Arab Water Week (AWW) is an international meeting in the Arab region which tackles water management issues through establishing innovative partnerships and platforms of collaborative work on water issues in the region. The importance of this meeting lies in providing a platform for greater coordination among the existing network of key stakeholders active in the water sector in the region.

The Arab Water Week (AWW) does not only provide an opportunity to enhance communication flows, synergies and the sharing of successful experiences, but as well, it will facilitate the creation of new partnerships that complement and maximize the impact of on-going work in this sector for the benefit of all countries in the region.

The Conference and Exhibition (3 - 5 March) will provide a broad technical presentations and a policy-based program, along with the specialized exhibition targeting water supply and wastewater vendor’s and other service providers in the water sector.
Trenchless Arabia Conference and Exhibition In Conjunction with
5th Arab Water Week

Trenchless Arabia is an international conference and exhibition promoting condition assessment (cctv inspection and leak detection), ground penetrating radar (gpr), cured in place pipe (cipp) lining, close-fit sliplining, horizontal directional drilling (hdd), pipejacking, pipe bursting, auger boring, microtunnelling and several other trenchless techniques. Rehabilitation or new installation of underground utilities is possible with trenchless techniques which bring crucial advantages such as minimum surface excavation, less environmental damage, shorter construction period and less social cost.
ACWUA
Training
ACWUA Training (Certified Programs)

1. Water Distribution Operator Level:

This program conducted in Jordan country from 13 to 20 Oct. 2018. This program delivered to 17 participants working in Miyahuna water Company – Zarqa and Madaba “ and “ WAJ – Balqa.

This Project Funded by:

[Image of Oxfam logo]
ACWUA Training (Certified Programs)

2. Operator One – Wastewater treatment operator

This program conducted in Lebanon country from 15 Oct. to 6 Nov. 2018. This program delivered to 15 participants working in Lebanon Water Establishment

This Project Funded by:

[DAI logo]
ACWUA Training (Certified Programs)

3. Operator One – Wastewater treatment operator

This program conducted in Lebanon country from 18 Oct. to 7 Nov. 2018. This program delivered to 15 participants working in Lebanon Water Establishment

This Project Funded by:

[DAI logo]
Shaping a more livable world.
ACWUA Training (Non-Certified Programs)

1. Accountability Systems

This program conducted in Jordan country from 24 to 30 Jul. 2018. This program delivered to 16 participants working in Miyahuna water Company –Zarqa and Madaba “ and “ WAJ – Balqa

This Project Funded by
ACWUA Training (Non-Certified Programs)

2. Accountability Systems

This program conducted in Jordan country from 4 to 9 Aug. 2018. This program delivered to 16 participants working in Miyahuna water Company –Zarqa and Madaba “and “ WAJ – Balqa

This Project Funded by

OXFAM
ACWUA Training (Non-Certified Programs)

3. Accountability Systems

This program conducted in Jordan country from 11 to 16 Aug. 2018. This program delivered to 15 participants working in Miyahuna water Company –Zarqa and Madaba “ and “ WAJ – Balqa
ACWUA Training (Non-Certified Programs)

4. Water Quality Analysis

This program conducted in Jordan country from 15 to 20 Sep. 2018. This program delivered to 15 participants working in Miyahuna water Company –Zarqa and Madaba “ and “ WAJ – Balqa
ACWUA Training (Non-Certified Programs)

4. Water Quality Analysis

This program conducted in Jordan country from 22 to 27 Sep. 2018. This program delivered to 15 participants working in Miyahuna water Company –Zarqa and Madaba “ and “ WAJ – Balqa

This Project Funded by

Oxfam
Members and Partners

Advertisements
NIVUS GmbH - Germany

The mobile NivuFlow Mobile 750 flowmeter was specially developed for wastewater applications in part filled canals as well as in part filled and full pipes.

Read [here](#) more about the long-term flow metering with integrated data transmission.
Lowering Groundwater Level in Aswan City project - Phase (II) has been signed for conducting a series of applied scientific research project via a joint cooperation agreement with Academy of Scientific Research & Technology (ASRT) to confront chronic environmental crisis in Aswan communities, with strategic vision to develop Aswan urban communities through three phases of that funded project, which should be incorporated into the outcomes of this substantial implemented project with the national strategy of the different sectors as housing, health, agriculture, tourism and electricity sectors in Aswan governorate.

The First Phase (I) of this project signed its cooperation protocol in March 2016, and its objectives were successfully achieved from highly integrated parties, with strategic vision to develop Aswan urban community through three phases through dealing with outcomes from phase (i) that aimed to integrated study for assessing the extension and distribution of the problem for rising groundwater level in Aswan city, and impacts of the problem on socio-economic aspects and present the proposed solutions.

Dr. Salah Bayoumi, Principal Investigator and Vice President of Holding Company for Drinking Water and Wastewater (HCWW) and professor of environmental engineering, Zagazig University, has adopted this series of Research studies as his initiatives to confront chronic environmental crisis in Aswan societies, and as
The EMA will organize the 3rd German-Arab Environment & Energy Forum from the 23 to the 26 of February 2019 in Jordan. The forum is jointly organized by the EMA and the Amman Chamber of Commerce and hosted by the Honorary President of the EMA, His Royal Highness Prince Hassan bin Talal of Jordan. The German delegation at this international forum will be led by H.E. Sigmar Gabriel, former Vice-Chancellor, Minister of Foreign Affairs, of Economy & Energy, and for the Environment of Germany.

The forum will bring together high-ranking representatives from European and Arab countries and will lead towards constructive cooperation for sustainable economic development in the Mediterranean and Middle East region. While addressing and encouraging new business opportunities in the fields of EcoMobility, Climate Change as well as the Energy, Water, and Circular Economy sectors, the event will focus on inspiring experiences and innovative know-how at expert level.

More information can be found on our website (in German/English and French)


A preliminary program is also online

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Xylem is a leading global water technology company, committed to developing innovative technology solutions that address the world’s water-related challenges.

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IDA WORLD CONGRESS
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Dubai, October 20-24
CROSSROADS TO SUSTAINABILITY

- **Learn.** The IDA World Congress offers unparalleled opportunities to learn and gain new perspectives from the world’s leaders in desalination and advanced water treatment.

- **Experience.** Located in the epicenter of World Congress activities for easy access, the Exhibition features the world’s leading companies and exciting innovators, showcasing their products and services and introducing new offerings before a global marketplace.

- **Connect.** The World Congress is filled with abundant opportunities for networking and forging valuable business-building relationships throughout the Congress week.

REGISTER NOW AND SAVE ... TAKE ADVANTAGE OF THE EARLY REGISTRATION DISCOUNT! IDA MEMBERS ALSO RECEIVE A GENEROUS MEMBER DISCOUNT (IF YOU’RE NOT A MEMBER, JOIN NOW AT WC.IDADESAL.ORG/JOIN-IDA/)

Calling all authors! There is still time to submit your abstract for consideration in the World Congress Technical Program. We have extended the deadline to January 30, 2019 and made submission easier through the new IDA World Congress website. Visit wc.idadesal.org/call-for-papers for more information.
نحتاج يومياً 186 ألف مترًا مكعبًا من المياه العذبة 
تحصل عليها من 42 نبعًا و 30 بئرًا نجمعتها في 343 خزانًا 
تنقيها ونوزعها على 888 مشترك عبر 100 كم من خطوط الدفع والجز 
تعالج مياه الصرف الصحي في ثماني محطات 

المحافظة على مصادر المياه وشبكات التوزيع وتسديد البدلات والرسوم 
مسؤولية مشتركة بين المؤسسة وكل البقاعيين 

مكتب المؤسسة في خمطحم 
دائرة إراحة: 88/3301311 
دائرة شكل: 88/3301311 
دائرة البقاء الشمالي: 88/3301311 
دائرة البقاء الجنوبي: 88/3301311
Renewal of TSM-Arab Certificate for Zei Water Plant and Issuing TSM-Arab Certificate for Zara Maen Water Plant

Technical Sustainable Management TSM Arab is a Quality Management System that enables water and wastewater facilities to comply with national and international standards in the fields of Operation, Maintenance, Occupational Health and Safety, Quality Assurance and Human Resource.

In order to promote the implementation of TSM Arab among different ACWUA Utility members, the partnership project between ACWUA and German Water Partnership (GWP) supported the renewal of TSM-Arab certificate for Zei Water Plant and Issuing TSM-Arab Certificate for Zara Maen Water Plant. The activity took place in three different phases. The aim of the first phase was to update the first version of TSM Arab, develop a first TSM Arab RO version of water desalination plants (TSM Arab-RO). Phase two aimed to prepare the water plant to meet all the TSM Arab requirements and a final phase of inspection by a group of experts proved the fulfillment of the requirements of TSM Arab -RO. Zara Maen Desalination Water Plant is the first in the region to be certified TSM Arab RO.
Information Workshop on ACWUA’s Service and the Fifth Arab Water Week

On December 5th 2108, the partnership project between ACWUA and German Water Partnership (GWP) organized a joint workshop to provide information on ACWUA services and the upcoming fifth Arab Water Week conference and exhibition. More than 20 water related private companies and organizations including representatives of ACWUA water utilities members from Jordan, the Holding Company for Water and Water and Wastewater (HCWW) from Egypt, the North Lebanon Water Establishment (NLWE) from Lebanon and the National Water Distribution Utility (SONEDE) participated in this event.

Dr. Azmi Ghneim welcomed the participants and pointed out the aim of the workshop and highlighted the importance of the variety of services provided by ACWUA to its members in addition to ACWUA’s role in facilitating communication among different water stakeholders. Eng. Khaldon Khashman provided the participants with an extensive overview about ACWUA’s history, goals, structure, achievements, future plans and the upcoming fifth Arab Water Week conference and exhibition.

During the workshop, representatives of ACWUA water utilities members appreciated the services provided by ACWUA as regional platform for exchanging knowledge on water issues in the Arab Countries and one of the leading training providers in the region. Representative of private companies pointed out their interest in the participation at the exhibition of the Arab Water Week.
Special AquaShares opportunity @ Arab Water Week

Discover how to secure a reliable new source of clean water: from customers

Arab thirsty cities face an agonizing choice. To meet a 55% increase in demand for water by 2030, some depend on large infrastructure. Others may impose rations, rate hikes or restrictions. Each poses massive costs, risks, uncertainty & inequity.

Happily, a safe new path to urban water security has emerged. Your city can now generate more potable water by offering families or firms cash, to seek, find capture ‘new’ water – already circulating within the existing system.

Through targeted engagement with metered accounts, AquaShares lets you ‘buy back’ water from clients that had been lost or leaked. ‘Crowd-source’ water you need, when you need it, with a responsive voluntary price that you control. The result? Loyal customers, high earnings, zero impacts, low risk, deep resilience.

For Marrakesh, AquaShares offers an elegant and equitable solution to urban water stress and scarcity.
– Yasser Biazi, King Mohammed VI Polytechnic University

AquaShares
Your Online Water Savings Market

THE ONLINE PLATFORM THAT TURNS CONSUMERS INTO PRODUCERS

AquaShares.com has developed an online platform to help utilities unlock an untapped alternative water supply source: end user efficiency. We empower ‘consumers’ to become ‘producers’ who own and trade water they save! “It's like Uber or Airbnb...for water.”

AquaShares creates an urban ‘sharing economy’ that allows consumers to earn and own water credits based on savings below past consumption levels. Utilities can then encourage, track and recover this affordable new ‘reservoir’ from its own customer base using existing infrastructure.
Members and Partners Advertisements
Background

The Hydraulics Research Center is the main research center in the field of water in Sudan. It was established during 1976 – 1986 through UNDP and Sudan government support to solve problems related to the development, implementation, and management of water resources projects in Sudan. It is located in Wad Medani, Gezira State. The HRC-Sudan has gained a good reputation through its achievements and successes in conducting many research and technical studies related to water sector, as well as training programs.

Objectives:

To conduct applied research to solve water related problems and provide scientific advice for developing, implementing, and managing water resources in Sudan, including: Irrigation, Hydrology, Hydropower, River transport, River Training, Flood Management, Water Quality, etc.

The HRC-Sudan, is one department of the Ministry of Water Resources, Irrigation & Electricity.

Mission

The mission of HRC-Sudan is “to support decision making of water resources management in Sudan through solution-oriented research, and capacity building.

Contact information:

Hydraulics Research Center, HRC-Sudan
P.O. Box 318, Wad Medani, Sudan, www.hrc-sudan.sd
Tel: +249 911 843120-843121 Fax: +24981859700
E-mail: info@hrc-sudan.sd
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Hydraulics Research Center

HRC

Research Directorates

General Directorate of River engineering and Dams

General Directorate of Hydrology & water resources

General Directorate of Water management

General Directorate of Laboratories and testing

General Directorate of financial and human resources

Research Partnership

Since its establishment HRC has established partnerships with national and international research institutions in the same areas of interest. These, includes water research centers and universities and international organizations.

Capacity building and Training

One of the mandates of the HRC-Sudan is to conduct training and capacity building programs in the field of water resources and its uses. Many national, regional and international courses have been successfully completed.

Recently, HRC-Sudan has joined the Sudan Academy of Science, which allows the center to give joint MSc and PhD degrees (by research).

Research facilities

The center is equipped with state-of-the-art facilities for field measurements, lab work, and data analysis and modeling including: Physical model Hall; mathematical modelling tools, GIS software’s, databank, electronic library.
OPEN: 2019 PHOTO COMPETITION

THROUGH THE GENDER LENS: ACTION, PARTICIPATION, AND THE FIGHT AGAINST CORRUPTION IN WATER

DEADLINE: Sunday 17 February 2019
INFORMATION: www.waterintegritynetwork.net
Global Network of Isotopes in Precipitation (GNIP) within the IAEA
Eng. Mohammad Radwan Almomani
Amman, Jordan

The International Atomic Energy Agency (IAEA) and cooperative involved organizations, also with involvement of other regional laboratories globally, as the regional Isotope laboratory in the Water Authority of Jordan (WAJ) played an important role in Nuclear Isotope Hydrology of peaceful Application. Isotope hydrology is a nuclear technique that uses both stable and radioactive environmental isotopes to trace the movements of water in the hydrological cycle. Isotopes are atoms of the same element that are chemically identical, but physically different.

Common isotopes integrated within the GNIP network are stable isotopes of deuterium (\(^2\text{H}\)), oxygen-18 (\(^{18}\text{O}\)) and radioactive isotopes of Tritium (\(^3\text{H}\)).

Hydrological Cycle: Isotopes in a Hydrologic Cycle.

Origin of precipitation and Rainfall:

Global Network of Isotopes in Precipitation (GNIP):
The International Atomic Energy Agency (IAEA's) Water Resources Program and the World Meteorological Organization (WMO) have been surveying the stable hydrogen and oxygen isotope and tritium composition in precipitation around the globe since 1961. Isotopic data collected as part of the GNIP network serves as an indispensable database to inform a range of scientific disciplines, including, but not limited to hydrology, meteorology and climatology, oceanography and limnology, and in studies related to the Earth's water cycle and climate. Recently, GNIP has played an important new role in facilitating novel isotope research in ecological investigations, food authentication and traceability, and forensics.
ACWUA
Projects
New ACWUA Projects

Water Trucking Impact and Transboundary Water Resources Management

_This Project applying on the Yemen and Syria Countries_

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_This Project Funded by:_

[UNICEF Logo]
• Under the project Non-Revenue Water (NRW) reduction plan, knowledge sharing workshop and water utility management training in Jordan (funded by USAID), ACWUA and Water Management Initiative (WMI) project conducted workshop during 3th-4th Dec 2018 under the title of Non-Revenue Water (NRW) Reduction Master Plan Knowledge Sharing Workshop.

Workshop’s overall objective was to present the Non-Revenue Water (NRW) reduction plan for Jordanian utilities and exchange the local and regional experiences in management NRW on regional and international levels.

For more information about this workshop please visit this link:

Click here
Latest News for ACWUA Projects

- Renewed TSM Arab re-certified water treatment plant ZAI-Jordan operated by Miyahuna in September 2018.

- TSM Arab certified for Desalination water treatment plant Zara Ma’in - Jordan operated by Miyahuna in December 2018.
ACWUA’s Participation in Regional and International Events
ACWUA’s Participation in Regional and International Events


- “2018 SDC Middle East Region Wash Workshop” organized by the Swiss Agency for Development and Cooperation (SDC) in Bekaa, Lebanon during 1st – 5th July 2018.


- “The 6th ESCWA Technology Center’s Technical Committee Meeting” organized by the ESCWA Technology Center’s Technical Committee in Amman, Jordan during 2nd -3rd October 2018.

- “WATERIST - Istanbul Water Congress and Fair” organized by Istanbul Water and Sewerage Administration (ISKI) in Istanbul, Turkey during 11th – 13th October 2018.

- “First International Cairo Water Week” organized by Egypt’s Ministry of Water Resources and Irrigation in Cairo, Egypt during 14th -18th October 2018.

- “Solar Energy Solutions for Electricity and Water Supply in Rural Areas Conference” organized by The American University in Cairo (AUC) in Cairo, Egypt during 7th – 10th November 2018.


- “Water scarcity and governance in Jordan and Spain” organized by Casa Árabe in Madrid, Spain on 26th November 2018.
Utility and NGO’s Members

Holding Company for Water & Waste Water

Greater Cairo Water Company
Assiut Water and Wastewater Company
Alexandria Water Company

Menya Water and Sanitation Company
Fayoum Drinking Water and Sanitation Company
Giza Drinking Water & Wastewater Company

Dakahlia Potable Water and Sanitary Drainage Company
Cairo Water Company
Luxor Water & Wastewater Company

Greater Cairo Sanitary Drainage Company
Beheira Water & Wastewater Company
Sharkia Water & Wastewater Company
Gharbia Water and Sanitation Company

Qena Water & Wastewater Company

Gharbia Water and Sanitation Company

Damietta Water & Wastewater Company

Alexandria Sanitary Drainage Company

Aswan Water & Wastewater Company

Matrouh Water & Wastewater Company

North and South Sinai Company for Water and Wastewater

Sohag Water and Wastewater Company

Benisuef Water and Sanitation Company

Menoufia Company for Water and Wastewater

Kafr ElShikh for Water & Wastewater Company
Yemen

General Administration of Water and Sanitation and the Ministry of Environment

Sadah Water Supply and Sanitation Local Corporation

Bajil Water and Sanitation LLC

Abyan Local Corporation

Bait Al-faqih Water and Sanitation Local Corporation

Seiyun Local Corporation

Ibb Water and Sanitation Local Corporation

National Water and Sanitation Authority

Local Water and Sanitation Corporation Ta’az

University of Sana’a

Central Authority for Rural areas - Yemen

Zabid Water and Sanitation Local Corporation - Yemen
Private Sector Members

Xylem Water Solutions

World Engineering and Technology

Salalah Sanitary Drainage Services Company – Oman

Maalouf Trading & Contracting s.a.l

Chemonics International, Inc – USA

Public Authority for Electricity and Water – Oman

Emirates Sembcorp Water and Power Company - UAE

Nivus GmbH - German

Smart Water Metering - Canada

Wilo SE International Co-operation – German

RUQN AL HANADASA CONSULTING ENGINEERS