



CAIRO WATER WEEK  
**CWW2019**  
RESPONDING TO WATER SCARCITY  
2<sup>ND</sup> ANNOUNCEMENT

OCTOBER 20-24, 2019 – CAIRO, EGYPT

# WELCOME NOTE

Dear Valuable participants,

It is our pleasure to invite all colleagues interested in water and sustainable development issues to Cairo Water Week (CWW2019), that will take place during the period from 20<sup>th</sup> to 24<sup>th</sup> October 2019 in Cairo - Egypt.

Cairo Water Week (CWW) is considered one of the biggest water-related events at the national, regional and international levels. It is an annual event organized by the Egyptian Ministry of Water Resources and Irrigation, under the patronage of H.E. Mr. Abdel Fatah El-Sisi, President of the Arab Republic of Egypt, in collaboration with national, regional and international partners. It aims to promote water awareness and foster innovative approaches to face the most pressing water-related challenges, keep updates on global movements to address water challenges and identify modern tools and techniques for managing water resources. The conference theme, "Responding to Water Scarcity", has been carefully chosen to mark such a milestone of our society.

The conference is an important platform for professional engagement, the exchange and sharing of ideas, learning from others and identify areas for partnerships and collaborations. We have an exciting program this year that will allow members to reflect upon and celebrate the accomplishments, extend their networks, and jointly explore current and future research directions. We hope that you will have a productive and fun-filled time at this very special conference. The rich program, wide experience and multitude of perspectives of our speakers, along with interesting field visits and a sound social program, guarantee that the Conference is interesting, fruitful and enjoyable.

It is indeed an honor and privilege to welcome you to Cairo Water Week 2019, which we see as an event of significance!

Looking forward to seeing you in the charming and inspiring city of Cairo!

**Organizing Committee**  
**Cairo Water Week 2019**

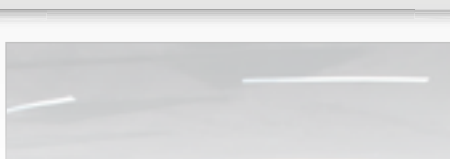
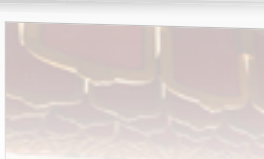
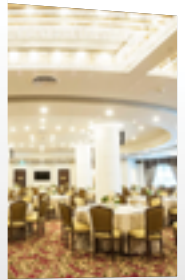
# EVENT VENUE

The event will take place at Al-Manara International Conference Center, located in New Cairo area,

A new hub for Egyptian talents and culture enthusiasts, Al Manara aims to host – not only business meetings and conferences- but also they are looking forward to welcome a huge number of visitors with different interests and preferences every year. With extensive hard work, passion and attention to the finest details this outstanding venue was built on more than 30,000 square meters of multi-purpose space divided into 13 unique and world class halls.

Al Manara is located near Cairo International Airport it takes only 25 minutes, about 10 minutes from The Fifth Settlement and 10 minutes from Nasr City which has a large concentration of shopping malls.

For more details about the facilities of the venue please visit: <https://nc-iec.com/>



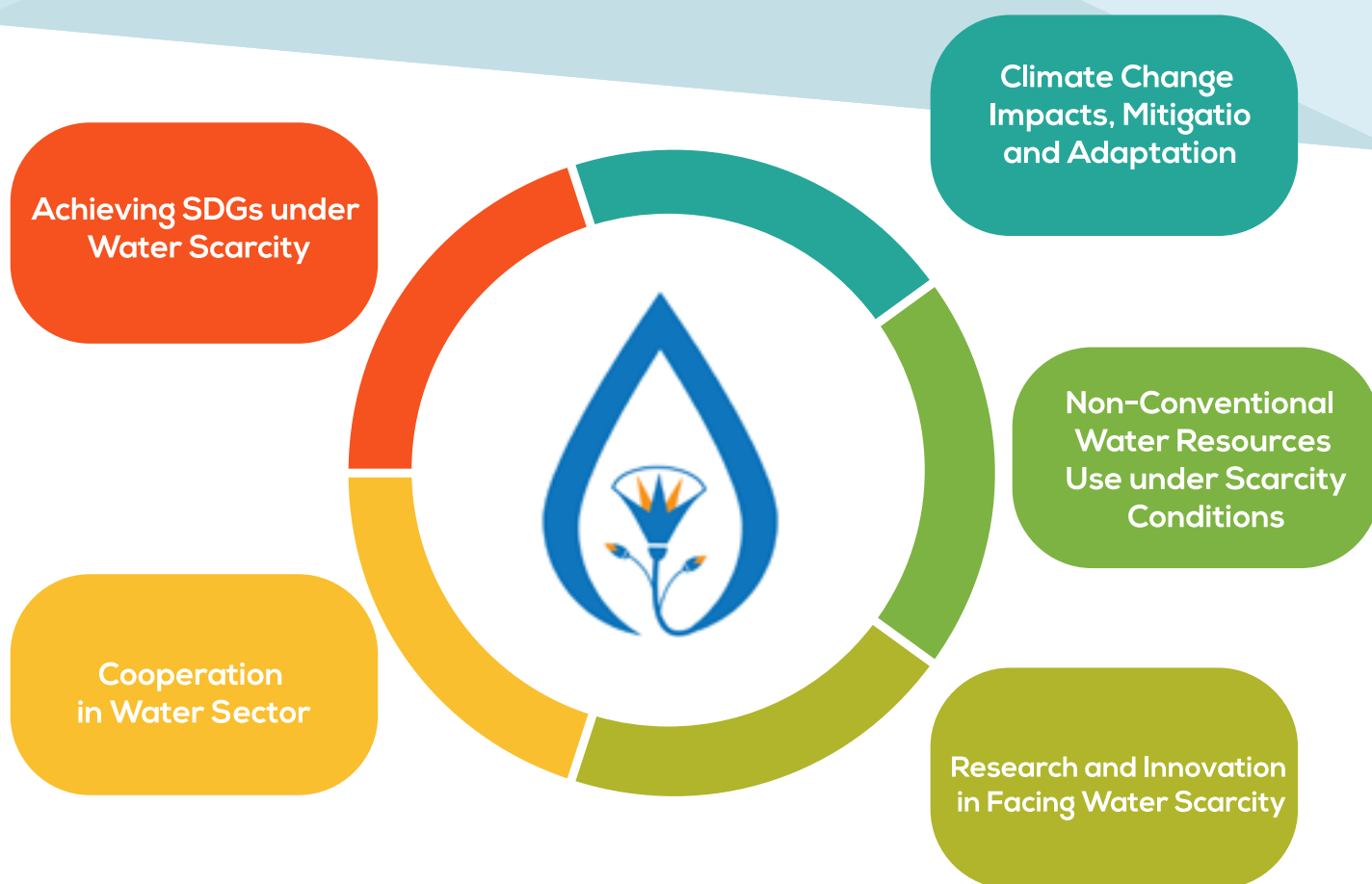
# MAIN THEMES

Cairo Water Week 2019 will address the main theme “Responding to Water Scarcity” through five sub-themes overarching a broad spectrum of the water scarcity. Under each sub-theme, variety of topics could be covered.

Five plenary sessions, in addition to, more than 40 technical and special sessions will be conducted during the week.

For more information on the main themes, please visit our website

[www.cairowaterweek.eg](http://www.cairowaterweek.eg)



# HIGH LEVEL EVENTS

This section briefly describes the High level events, for more information please visit our website <http://www.cairowaterweek.org/high-level-events>

**HLE01**

## **Second Meeting of the OIC Water Council.** (Closed Meeting – By Invitation)

**Convener (s):** OIC, MWRI

The meeting will be held on 21<sup>st</sup> and 22<sup>nd</sup> of October 2019 on the sidelines of the Cairo Water Week 2019.

The OIC Water Council aims at activating cooperation among the OIC member states in the field of water, in addition to following up the efforts and progress achieved in this regard. The second meeting of the council is considered an attempt to put countries on the right track to implement their national water strategies under the general framework of the OIC vision. The meeting hopes to produce concrete conclusions and recommendations focusing on shared priorities that will work as guidelines for countries in cooperation.

**HLE02**

## **Presidential Championing Infrastructure Initiative – Inter-Ministerial Committee Meeting** (Closed Meeting – By Invitation)

**Convener (s):** PICI, MWRI

The meeting will consider the Technical Report of the Technical Task Team Project Status Report (TTT). The ministers will also present all obstacles and constraints that might hinder the smooth project implementation. Inter-Ministerial Project Status Report will be developed to be presented to the PICI Heads of States.

11 ministers will attend the meeting in addition to high senior staff.

**HLE03**

## **Expert Meeting of the Egyptian - Dutch Advisory Panel on Water Management** (Closed Meeting – By Invitation)

**Convener (s):** Egyptian - Dutch Advisory Panel on Water Management, MWRI

The panel is chaired by the Egyptian Minister of Water Resources and Irrigation and the Dutch Minister of Infrastructure and Water. It includes members from different ministries relevant to water sector on both Egyptian and Dutch sides.

The objective of the Meeting includes: to continue the dialogue on the progress of the partnership and provide an update on completed and/or running activities, studies and projects; to exchange information and knowledge regarding the three themes of the Memorandum of Understanding signed between the two ministries, namely, Integrated Coastal Zone Management (ICZM), Rural Sanitation and Wastewater Management, and Water and Agriculture and; to discuss future actions and the plans of the panel for 2019/2020.

**HLE04**

## **First meeting of the Joint High-Level Committee between water and Agriculture** (Closed Meeting – By Invitation)

**Convener (s):** LAS, MWRI, FAO

In progress

# SIDE EVENTS

This section briefly describes the Side Events, for more information please visit our website <https://www.cairowaterweek.org/side-events/>

**SE01**

## 2<sup>nd</sup> African Young Water Professional Forum

(Closed Meeting – By Invitation)

**Convener (s):** AFRWG of the ICID, ENCID, ICID, ESCWA, MWRI

Owing to the success of the 1st Af-YWPF, the forum has grown to attract more than 570 members from all African countries, thus becoming an important platform at the African continent for capacity building of Africa's future leaders in water-related sectors. Thus, keeping in mind the importance of the Af-YWPF, the MWRI of Egypt, AFRWG of the ICID, ENCID, ICID and ESCWA are working collaboratively to organize the 2nd Af-YWPF at the CWW 2019.

The Forum catering for Young Water Professionals of diverse backgrounds including utility, government, research, and private consulting and industry engagement will be an action-packed 26 hours, spread over a 3-day period.



# SIDE EVENTS

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**SE02**

## Kids Hub “Young Water Ambassadors”

(Closed Meeting – By Invitation)

**Convener (s):** Ministry of Water Resources and Irrigation, Ministry of Culture, Ministry of Youth & Sports, Ministry of Education, European Union

In CWW 2019, we worked alongside kids to ensure their active participation in the conference and to have their voices heard. The Ministry of Water Resources and Irrigation will organize the 2nd edition of the “Kids Hub” this year, in cooperation with Ministry of Culture, Ministry of Youth & Sports, Ministry of Education and European Union. The event aims to raise the children awareness on water challenges; and to encourage them to disseminate the water conservation messages to the children everywhere. Many activities and competitions related to water will take place on the margin of the forum: lectures, a literary workshop, painting activities and puppet shows.



# SIDE EVENTS

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**SE03**

## **Status Quo of the Egyptian Water Higher Education, Research and Training The Center of Excellence for Water**

*Convener (s): AUC*

*Co-convener (s): Alexandria University, Ain Shams University, Beni Suef University, Zagazig University, Aswan University, Temple University, Utah State University, University of California at Santa Cruz, Washington State University.*

The Center of Excellence for Water aims at boosting Egyptian Higher Education, Research and Training, in the field of Water Sciences and Engineering. Since its start, the CoE partners (more than 20 partners from Government, Universities, Research Centers, Private Sectors and Foundations) have been working to study the status-quo and capacities of the Egyptian Higher Education and Research Institutions. An in depth needs assessment has been carried out by the CoE and its results reveals interesting facts, potentials, and needs for Higher Education curricula, Research Grants, and Training (Capacity Building). The workshop will be divided into two main parts, the status-quo of Higher Education, research and Training, and challenges in relation to the Egyptian Water Strategy within the Egyptian Strategy for Sustainable Development, and the way forward for the Center of Excellence to address those challenges and filling the gaps.

**SE04**

## **Advanced Water Accounting: Training for Water Accounting Analyst (Closed Event – By Invitation)**

*Convener (s): FAO*

*Co-convener (s): IHE, IWMI, MWRI-WA unit*

The training targets people already familiar with Water accounting and aims to introduce advanced water accounting to practitioners who will be responsible of the analysis and packaging of information to decision makers.

A typical water accounting team should have analysts who can interpret the information revealed by the water accounting and what it means for problems/opportunities in management and policies. This training targets WA analysts of water accounting teams and is the first of a series of training –face to face and virtual- that aim to provide them with the tools for their role.

# SIDE EVENTS

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**SE05**

## **EU Water Governance & Business Forum**

**(Closed Event – By Invitation)**

*Convener (s): EU*

*Co-convener (s): UfM*

The proposed event shall be a high level event to discuss Mediterranean & Egyptian files including UfM vision and plan to achieve sustainable development and issues related to sustainable finance in water infrastructure, and mainly focusing on EIP, EFSD and possible Cooperation between EU and AFIIs. The event shall serve as a technical follow up /spinoff event to the UfM Ministerial Conference on Water. Finally, the event shall be an excellent opportunity to promote the Foreign Affairs Council conclusion on sustainable water finance.

**SE06**

## **World Water Council – 70<sup>th</sup> Board of Governors Meeting**

**(Closed Event – By Invitation)**

*Convener (s): WWC*

The World Water Council, the honorary sponsor of CWW, decided to organize its 70th Board of governors meeting in Cairo on the sidelines of CWW2019. The meeting will be held during the period from 19-23 October 2019 and will include the Task Force meeting, the ISC meeting, the Bureau meeting and the 70th BOG Meeting.

# SIDE EVENTS

This section briefly describes the Side Events, for more information please visit our website <https://www.cairowaterweek.org/side-events/>

**SE07**

## **Training Course Program on Integrated Water Resources Management (20-24 October, 2019)**

*Convener (s): MWRI, OIC*

This training course in Integrated Water Resources Management is designed to overcome the lack of capacity to manage the water in integrated manner. It allows the present and future managers to share the understanding and demonstrating principle, practice and tools used in designing and evaluating the responses to water resources management problems. This course is conducted under the framework of the Organization of Islamic Cooperation (OIC) water vision kicked off in 2009 to strengthen the collaboration of the Islamic member states to address water challenges faced by the Islamic world. The Egyptian Minister of Water Resources and irrigation Mohamed Abdel Aaty announced this training course during the Fourth Session of the Islamic conference held in Egypt in October 2018 as a contribution from Egypt to Implement the OIC water Vision. The course will be organized by the National Water Research Center, the Research entity of the Ministry of Water Resources and Irrigation in Egypt.

**SE08**

## **Promoting Urban Nexus in the MENA Region Training Workshop (Closed Event – By Invitation)**

*Convener (s): LAS, GIZ*

The overall objective of the workshop is to discuss the way forward to apply Urban Nexus in the MENA region at local government level, through reforming governance structure and favorable framework conditions.

This is to be achieved through one day workshop to:

- Provide basic knowledge and understanding on the Urban Nexus Approach, as an integrated urban planning and management tool to foster resource-efficient and resilient cities.
- Present good practice case studies on applying Urban Nexus in Asian cities. These case studies are from actual projects that include both hard-side options (e.g. wastewater to energy and food to energy) and soft-side options (e.g. inter-sectoral task forces and multi-level dialogue).

# TECHNICAL SESSIONS / SPECIAL SESSIONS

This section briefly describes the Technical sessions/ Special Sessions, for more information please visit our website <http://www.cairowaterweek.eg/ts-ss>

## **TS04: Supporting Sustainable Water Management in Newly Reclaimed Areas**

**Convener (s):** *FAO*

**Co-convener (s):** *MWRI, NWRC*

Considering the finite character of the groundwater resources and the uncertainties regarding its lifetime, it becomes essential to enhance water use efficiency and increase water productivity within the sustainable limits of such aquifers. Farmers are the key stakeholders and their personal investments may be at risk if irrigation practices mimic those practiced in the delta region under surface irrigation water systems. Hence farmers need to be trained so as to make informed decisions on water saving techniques and the associated risks. Keeping them well informed will help create a sense for the need to better manage groundwater through more participatory and efficient approaches.

The session goal is to bring together a group of policy makers and experts to discuss the following:

- o Potentiality of irrigation modernization in newly reclaimed areas.
- o Future of groundwater management (quantity and quality).
- o Role of new tools, e.g. modelling and decision support systems in enhancing sustainability of groundwater resources.
- o Approaches to match between water availability and demand in newly reclaimed areas.

## **SS05: Preparatory Session for 9<sup>th</sup> World Water Forum**

**Convener (s):** *Secretariat of the 9<sup>th</sup> World Water Forum*

**Co-convener (s):** *MWRI*

The Executive Secretariat of the 9th World Water Forum that hosts the National organizing committee of the Dakar 2021 Water Forum would organize a special session on the Dakar Forum.

The main objective of the special session is to inform participants the state of preparedness of the form; to present the different subthemes of the priority areas; to present the modality of contributing to the different Working Groups; probably to one or more Working Groups meeting at the sidelines of Cairo Water week.

## **TS08: Water Productivity as the Cornerstone of Water-Limited Food Production**

**Convener (s):** *FAO*

**Co-convener (s):** *EU Water STARS Project –Ministry of Water Resources and Irrigation Egypt, IHE, IWMI*

The session will first explore the crop water productivity gaps that could be bridged (ex. for the basis of our food basket), then will analyze the economic water productivity in light of recent social and institutional changes (ex. issues that affect WP such as access to water and water rights, sustainability, equity, changes along the value chain, the impact of food waste on WP), and will finally explore how to inform the society on actions needed addressing the consumer and societal perceptions of the water needs for producing food and discuss the pros and cons of available indicators (ex. water footprint).

# TECHNICAL SESSIONS / SPECIAL SESSIONS

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## **TS09: Networks for Capacity Development and Knowledge Sharing: Tools to Cope with Water Scarcity**

**Convener (s):** NBCBN

**Co-convener (s):** (IHE-Delft Institute for Water Education-Netherlands, SciDev-Net, Cap-Net UNDP.

This session aims at showing the role of knowledge networks and institutions working in knowledge production and collaborative research activities in contributing to solving water scarcity related problems with focus on regional dimensions, engagement of all stakeholders and use of collaborative tools for better technical cooperation with case studies from the Nile basin and other regions. The session is expected to provide an opportunity to learn about multidisciplinary approaches and joint programmes of knowledge sharing and partnership supporting capacity development. Discussions and recommendations on effective tools for collaborative sustainable capacity development programmes will be discussed.

## **TS11: Cooperation Projects of Egyptian-Dutch Advisory Panel on Water Management**

**Convener (s):** Egyptian- Dutch Advisory Panel on Water Management

In progress

## **SS12 & SS16: Meeting for the Expert Network for Arab Water under Occupation**

**Convener (s):** LAS and PWA

In progress

## **TS13: Challenges and Opportunities of Solar Power Irrigation System in the Near East and North Africa Region**

**Convener (s):** FAO

**Co-convener (s):** Ministry of Water Resources and Irrigation – Egypt, Ministry of Agriculture, Water Resources and Fisheries – Tunisia, League of Arab States, GIZ .

The proposed session aims to discuss the future of solar power irrigation system in Near East and North Africa and more emphasis in Egypt and Tunisia. The session will mainly present opportunities and challenges related to using solar energy for irrigation within a holistic more sustainable management of scarce water resources in the region.

The session will highlight and review current practices, identify strengths and weaknesses that helps in developing future directions on SPIS in Egypt and Tunisia. In mitigating the risks associated with the expansion of groundwater irrigation resulting from the availability of affordable, through subsidies and other governmental incentives, renewable energy source, data availability and the analytical capacity of concerned institutions become a central element of groundwater management. Real-time data availability and analysis provide water resources managers and decision makers an effective tool for timely control of water abstractions. Local experiences on the development, installation and operation of such monitoring tools will be presented and discussed in the session.

# TECHNICAL SESSIONS / SPECIAL SESSIONS

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## **TS14: Innovative Solutions to Improve Agricultural Production in Marginal Environments**

**Convener (s):** ICBA

**Co-convener (s):** Environment Agency Abu Dhabi, Abu Dhabi Agriculture and Food Safety Authority.

The session will discuss the new innovative technologies /solutions and approaches that are used to improve agricultural production while sustaining natural resources in marginal environments particularly in countries that face water scarcity like the United Arab Emirates. ICBA and Partners will present several case studies on the research achievements that has been done to improve allocation of water to different crops and better estimates of crop water requirements using lysimeters and sensors techniques which can help in saving groundwater resources and reduce over pumping, integrated farming system that uses brine water generated from RO desalinated plants in aquaculture and for irrigating halophytes like *Salicornia* which can reduce the environmental impact of the brine (zero discharge) and increase agricultural production, other case studies on using remote sensing and sensors to have a better estimates of crop water use and agricultural productivity will also be presented.

## **TS15: Non-Conventional Water Resources**

**Convener (s):** NWRC

Due to exponential increase in population and so the ambitious development plans in many countries in the region, the available fresh water resources are not satisfying the water demands. The main strategic choice to fulfil the gap between water resources

availability and water demand is the use of the non-conventional water resources. Treated drainage water, rainfall harvesting and, desalination of seawater and brackish water are examples of such non-conventional water resources. The use of non-conventional water is on the top of research priorities of the NWRC to maximize the efficiency of such resources. NWRC will present success stories in this research area including the use of wetland and natural materials for drainage water treatment and, mitigation measures used for rainfall harvesting. Consequently, the use of desalination technology in sea water will be presented.

## **TS17: Count and Account for Scarce Water: Build a Sustainable water Future**

**Convener (s):** FAO

**Co-convener (s):** EU Water STARS Project – MWRI Egypt, IHE, IWMI.

The session will raise awareness on the feasibility of using water accounting for planning, and reporting in the MENA water-scarce region and its usefulness to inform the sustainable development needs. Various countries in the MENA region started implementing 'rapid water accounting' as a first step in their aim to use standardized approaches but tailor them to their realities. The session will then be able to take a closer look at the state of art developments on Water Accounting in the region while illustrating it with concrete examples from countries. The discussion should highlight the most common issues (data, tools, scaling up) and the approach to address them.

# TECHNICAL SESSIONS / SPECIAL SESSIONS

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## **TS18: The Role of Media in Raising Public Awareness for Better Water Use in Egypt**

*Convener (s): AWA*

*Co-convener (s): AWC*

Egypt's standing is below the level of water poverty. However, the population is depending mainly on the River Nile for drinking water, municipal water, and agricultural water. However, the painful reality is the fact that the river has been polluted by harmful chemical industrial waste, sewage leakages, municipal wastes, and dumping of dead animal carcasses, which has been causing a significant risk to humans, animals and also agricultural production. Water availability is an issue that is continuously growing in Egypt every day with the climate being expected continually gets drier and hotter over time. To face the above-mentioned challenges, raising public awareness has become vital for better water resources use in a rational and sustainable manner.

## **TS19: Research and Innovation in Water Resources**

*Convener (s): NWRC*

Research and innovation are very significant for water sector due to the continuous necessities for improvement of the water efficiency of the irrigation and drainage network systems and likewise of the hydraulic structures. The session will present innovated solutions to produce biogas from the aquatic weeds and water hyacinth in an efficient technique. This technique was successfully implemented in Uganda. Correspondingly, innovates to improve the efficiency and functionality of regulators on the water streams will be presented.

## **SS20 & SS25: Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project**

*Convener (s): ECCADP*

*Co-convener (s): UNDP*

The session will cover the recent advances in implementing nature based techniques to adapt to the anticipated sea level rise impacts in Egypt. This will cover the work carried out by a recently completed GEF/UNDP funded project and the currently on going GCF/UNDP funded project ECCADP. The session will also touch upon the recent efforts to develop a full integrated coastal zone management (ICZM) plan for the northern coastal zones of Egypt.

## **TS21: Climate Induced Water Hazards Drives Human Insecurity in the Eastern Nile River Basin**

*Convener (s): SIWI*

*Co-convener (s): International Centre for Water Cooperation under the auspices of UNESCO*

The session will demonstrate how climate driven hazards pose risks to human security in a basin wide context. It will facilitate discussion on how key actors in fields such as water resource management, climate policy and development planning can apply the climate security lens to identify and reduce insecurities and build long-term resilience. plan for the northern coastal zones of Egypt.

# TECHNICAL SESSIONS / SPECIAL SESSIONS

This section briefly describes the Technical sessions/ Special Sessions, for more information please visit our website <http://www.cairowaterweek.eg/ts-ss>

## **TS22: Water Accounting for Enhanced Water Productivity and Drought Management**

*Convener (s): IWMI*

This session will introduce water accounting frameworks and techniques and their use in water resource planning and policy development under normal and drought conditions. It will showcase examples from around the world with a particular focus on the MENA region bringing insight into:

- o Water accounting applications in water management
- o Water accounting and water resources plan development
- o Climate change and drought management

## **TS23: Vulnerability of Water Resources to Climate Change**

*Convener (s): NWRC*

Climate change and its impacts on water resources is a hot issue worldwide. Climate change can cause periods of unexpected floods or draughts and eventually sea level rise.

World deltas is subjected to sea level rise and land subsidence due to climate change. Nile delta is one of the deltas that is vulnerable to climate change. Draughts affect the availability of fresh water while floods can cause losses in lands, properties and lives. Research on climate change vulnerability is taking place over the globe for better understanding and impact mitigations.

Tools and models used to forecast the climate change and its impacts on rainfall and sea level rise will be presented considering the research conducted on the Nile delta. Innovates using friendly measures to protect Nile delta from floods due to climate change will be also presented.

## **TS26: Dam Break Risk Assessment**

*Convener (s): NWRC*

Dam failure, either earth or concrete dams, occurs due to natural disasters or man fault. Consequently, the failure causes losses of lives and, economic drawdown due to uncontrolled flooding. Research on dam failure/break is very crucial for predicting the negative impacts and accordingly for the necessary measures of mitigating such impacts. NWRC will present the large scale experiments that conducted, using the large facilities that is available in the NWRC, for studying the breach of earth dams due to overtopping or piping. Research and studies will be presented on concrete dams break and its impact downstream using numerical modeling techniques and risk management analysis.

## **TS27: National Water Competition for Farmers' Best Practices in Water Conservation**

*Convener (s): MWRI, UNESCO Cairo Office*

The session will include presentations of the winner farmers in the National Competition for Water Conservation that was held under the auspices of the Minister of Water Resources and Irrigation and in cooperation with the European Union,. The competition's objective is to support the strategic national efforts and initiatives to protect and conserve water resources.

It also aims to encourage the positive and best practices of farmers through water user associations to conserve water in quantity and quality. The competition was open to all water user associations in all the Egyptian governorates.

# TECHNICAL SESSIONS / SPECIAL SESSIONS

This section briefly describes the Technical sessions/ Special Sessions, for more information please visit our website <http://www.cairowaterweek.eg/ts-ss>

## **TS28: Young Innovators “STEM schools”**

**Convener (s): MWRI**

Children can play a significant role in the future of water resources management, in accordance with their evolving capacities and increasing autonomy, to be engaged in the future decision-making processes.

In CWW 2019, we worked alongside kids to make sure their participation in the conference and have their voices heard. The session will present the STEM school's students innovations in the field of Water Resources conversation.

The STEM school was founded on September 17, 2011 in the Global Village. It was established to equip the children with the skills needed to excel in the global economy. The core components of the rigorous curriculum ensure a community of STEM educated students who are problem-solvers, innovators, logical thinkers and technologically literate.

## **TS29: Best Graduation Projects Competition**

**Convener (s): (MWRI)**

This session is a part of the Best Graduation Projects competition that was held under the umbrella of Cairo Water Week. All graduation projects, of the academic year 2018/2019, from Governmental and Private Universities were encouraged to apply if their projects fall under the areas of the competition.

The Scientific Committee of Cairo Water Week will select the best three projects and the winners will present their work during this session.

## **TS31: Localization of Strategies and Action Plans for Better Community Resilience (RAED)**

**Convener (s): Arab Network for Environment and Development (RAED)**

**Co-convener (s): ESDF/ GEF/ Small Grants Programme**

The scope of the session is to advocate for better community resilience through localization of strategies and action plans related to water, agriculture, sustainable development, etc. as well as following to risk-based management approach. However, institutional capacity development and ensuring multi stakeholders engagement focusing on youth and women empowerment are considered key elements. The session aims to initiate dialogue among participants on localization of strategies, plans and resources; discuss challenges facing localization to reach better resilience and potential opportunities; highlight possible synergies between various international, regional, national strategies and policies addressing water, agriculture and climate change; emphasize on roles and responsibilities of different stakeholders (particularly civil society).

# TECHNICAL SESSIONS / SPECIAL SESSIONS

This section briefly describes the Technical sessions/ Special Sessions, for more information please visit our website <http://www.cairowaterweek.eg/ts-ss>

## **TS44: The Household Water Insecurity Experiences Scale: a simple questionnaire for generating high-resolution data on water security**

**Convener (s):** *Northwestern University, US/ University of Western England*

**Co-convener (s):** *UNESCO*

The Household Water Insecurity Experiences Scale (HWISE) Scale is a simple 12-item survey that measures universal experiences of household water insecurity across low- and middle-income countries. Its development ushers in the ability to quantify the prevalence, causes, and consequences of household water insecurity. As such, it can contribute an evidence base for clinical, public health, and policy recommendations regarding water.

This session will briefly describe the development of the HWISE Scale, illustrate how measuring household water insecurity can help track progress towards a number of SDGs, and what implementation in 30+ countries to date has revealed. We will conclude with a brief hands-on learning lab in which participants are trained on the use and analysis of the HWISE Scale.

## **TS32 to TS40: Technical Session of the Scientific Researches submitted to CWW2019**

The Scientific committee of the Cairo Water Week 2019 received more than 150 technical abstracts from 134 researcher, covering the 5 main themes of the event.

The scientific committee has evaluated the submitted abstracts carefully and 47 abstracts were accepted. The accepted abstracts distributed into 9 technical sessions. In addition to the technical sessions, a number of poster sessions will be organized. The details of the sessions will be announced soon.



**Achieving SDGs under  
Water Scarcity.**

**Cooperation in Water Sector.**

**Research and Innovation  
in Facing Water Scarcity.**

**Climate Change Impacts,  
Mitigation and Adaptation.**

**Non-Conventional Water  
Resources Use under Scarcity  
Conditions.**

# COMPETITIONS AND GRANTS

A number of contests will be hosted, with honor, by the Cairo Water Week Organizing Committee. The focus on these contests will be on technical feasibility, efficiency and innovation as well as testing the creativity of the participants.

For more information, please visit the following link

<https://www.cairowaterweek.eg/national-competition/>



## Best Graduation Projects

All graduation projects, of the academic year 2018/2019, from Governmental and Private Universities, were encouraged to apply if their projects fall under the areas of the competition (Irrigation, Hydraulics, Water Management, Coastal Management, and Desalination). The invitation was not limited to the Faculties of Engineering; students in other disciplines were invited to apply as well. The winners will present their projects in a session during CWW2019.



## MWRI-EU National Competition for Water Conservation Best Practices

Under the auspices of the Minister of Water Resources and Irrigation of Egypt, the European Union in cooperation with MWRI has launched the National Competition for Water Conservation. The competition's objective is to support the strategic national efforts and initiatives to protect and conserve water resources. The competition is conducted among two of the most important target groups who can play a key role in achieving such objective; these are School students and Farmers. The farmers' best practices will be presented in a session during the week.



## Journalists Grant

The Cairo Water Week Journalist Grant aims to build capacity in water-related issues among journalists active in developing countries, thereby creating the potential for raised awareness among large audiences of listeners and viewers. Through the Cairo Water Week Journalist Grant, we offered journalists from low-income nations the opportunity to visit Cairo and report on Cairo Water Week. Five journalists have been selected to attend the event among more than 70 applicants.

# EXHIBITION

CWW 2019 Expo will be organized in parallel with the Cairo Water Week activities during the period from October 20- 24, 2019 at the same venue of the conference. It will be a unique opportunity for all public and private institutions in the water sector and related businesses & industries to display their activities, programs, and products and generate modern ideas & advanced technology in the water-related such as desalination, renewable energy, and water conservation technology.

Limited booths are still available; please visit our website to know more about the exhibition and how to book your booth.

<https://www.cairowaterweek.eg/exhibition/>

# REGISTRATION

Registration is required for all participants and accompanying persons. Registration fees and on-line registration procedures are available on the CWW website at

[www.cairowaterweek.eg/register/](http://www.cairowaterweek.eg/register/)

# ACCOMMODATION

Different options for accommodation preferences in neighboring hotels to the venue of the conference will be announced soon on our website.

Please note that you will not be able to obtain the special rates of these hotels unless you mention your registration confirmation code. The registration team will send the confirmation code to you as soon as they receive a copy of your payment document.

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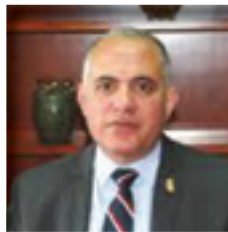


Ministry of Agriculture and Rural Economy

# CWW 2019 HIGHER COMMITTEE

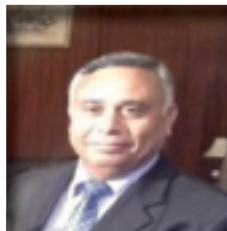
The CWW2019 Higher Committee is made up of a group of distinguished experts from the water and sustainable development community who provide overarching guidance to the conference. The Committee includes members from the Ministry of Water Resources and Irrigation; and representatives from the partner organizations.

## Head of Higher Committee



**H.E. Dr. Mohamed Abdelaty**  
Minister of Water Resources  
and Irrigation, Egypt.

## Head of Organizing Committee



**Dr. Ragb Abdelazim**  
Undersecretary, Ministry of  
Water Resources and Irrigation,  
Egypt.

## Executive Director, Cairo Water Week



**Dr. Eman Sayed**  
Head of Planning Sector,  
Ministry of Water Resources  
and Irrigation, Egypt.

# CWW 2019 HIGHER COMMITTEE

The CWW2019 Higher Committee is made up of a group of distinguished experts from the water and sustainable development community who provide overarching guidance to the conference. The Committee includes members from the Ministry of Water Resources and Irrigation; and representatives from the partner organizations.



**Eng. Dr. Charafat Afailal**

Former Minister in Charge of Water, Morocco.



**Dr. Fadi Georges Comair**

Director General of Hydraulic and Electric Resources, Ministry of Energy and Water, Lebanon.



**Prof. Eng. Felix Reinders**

the president of international commission on irrigation and drainage (ICID))



**Dr. Ghaith H. Fariz**

Director, UNESCO Regional Bureau for Sciences in the Arab States



**Dr. Hammou Laamrani**

Senior Expert for Water, Energy, Food Security and Climate Change Nexus, Economic Sector, League of Arab States



**Dr. Karima Attia**

Emeritus Professor, National Water Research Center, Ministry of Water Resources and Irrigation, Egypt.



**Dr. Khaled Abd El Hay**

Chairman, National Water Research Center Ministry of Water Resources and Irrigation, Egypt.



**Dr. Mohamed I. Al-Hamdi,**

Senior Land and Water Officer, Food and Agriculture Organization of the United Nations – Regional Office for the Near East and North Africa (FAO-RNE).



**Dr. Mohamed Shehata**

International Visiting Scientist - Chinese Academy of Science  
Chairman - African Regional Working Group (AFRWG) – ICID  
Vice President Honoraria (VPH) - ICID



**Eng. Mohamed Tawfik**

Project Manager for IGAD-HYCOS to assist WMO and IGAD in implementing the Inland Water Resources Programme.



**Dr. Sven Geissen**

Head of the Environmental Process Engineering Chair, Department of Environmental Technology, Technical University of Berlin.



**Eng. Walid Hakiki**

Head of the Central Department for Water Resources and Water Uses, Ministry of Water Resources and Irrigation, Egypt.

# CWW 2019

## SCIENTIFIC COMMITTEE

The Scientific Committee was established as an advisory body to the Higher Committee. The Scientific Committee is constituted of distinguished national and international scientists and experts in the different water and sustainable development fields to enhance and broaden the expertise of the Scientific Committee and of its Working Parties.

### Head of Scientific Committee



**Prof. Dr. Mohamed Safwat**

Emeritus Professor at the National Water Research Center and Chairman of Scientific Committee



**Prof Dr. Aris P. Georgakakos**

Professor and Director, Georgia Water Resources Institute, USA



**Dr. Eman Ragab**

Researcher at Research Institute for Groundwater, National Water Research Center



**Prof. Dr. Amr Fadlelmawla**

Director, Research Institute for Groundwater, National Water Research Center



**Prof Dr. Enas Mohamed Aboutaleb**

Prof. of Wastewater Treatment Technology and Environmental Studies



**Prof Dr. Bayoumi Bayoumi Attia**

The President of Resources Technology Bureau & Engineering Consultancy (RTB)



**Prof Dr. Hani Sewilam**

Academic Director of the Department of Engineering Hydrology and the Managing Director of the UNESCO Chair in Hydrological Changes and Water Resources Management at the RWTH Aachen University in Germany.

# CWW 2019

## SCIENTIFIC COMMITTEE



**Prof Dr. Hesham Bekhit**

Professor at the department of irrigation and Hydraulics, faculty of Engineering, Cairo University



**Prof Dr. Rifaat Abdel Wahaab**

Professor of W/WWW Treatment Technologies, National Research Centre; and Head of Research & development (R & D) at the Holding Co. for Water and Wastewater



**Prof Dr. Mohamed Nour El-Din**

Water Resources & Irrigation consultant, Professor Emeritus, Faculty of Engineering- Ain Shams University



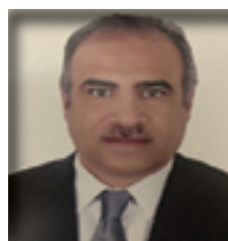
**Prof Dr. Stefan Uhlenbrook**

Coordinator of the UNESCO World Water Assessment Programme (WWAP) the Director of the UNESCO Programme Office on Global Water Assessment Perugia, Italy



**Prof Dr. Pasquale Steduto**

Chief of the Water Resources, Development and Management Service in (FAO)



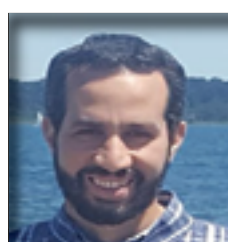
**Prof Dr. Yasser Raslan**

The director of Nile Research Institute.



**Prof Dr. Ragab Ragab**

Principal Hydrologist & Water Resources Management Specialist. Centre for Ecology and Hydrology, CEH, UK



**Dr. Yehya Imam**

Assistant professor in the Environmental Engineering Program at the Zewail City University of Science and Technology



**Prof Dr. Rasha El-Kholy**

Vice President and Dean of Faculty of Engineering Heliopolis University for Sustainable Development, Egypt

# LIST OF ABBREVIATIONS

<b>AFRWG</b>	The African Regional Working Group
<b>AF-YWPF</b>	The African Young Water Professional Forum
<b>AUC</b>	American University in Egypt
<b>AWA</b>	Arab Water Academy
<b>AWC</b>	Arab Water Council
<b>BoG</b>	Board of Governors
<b>Cap-Net</b>	Capacity Development in Sustainable Water Management Network
<b>CoE</b>	The Center of Excellence
<b>CWW</b>	Cairo Water Week
<b>ECCADP</b>	Enhancing Climate Change Adaptation in the North Coast and Nile Delta Regions in Egypt Project
<b>EFSD</b>	European Fund for Sustainable Development
<b>EFSD</b>	European Fund for Sustainable Development
<b>EIP</b>	European Investment Plan
<b>ENCID</b>	Egyptian National Committee for Irrigation and Drainage
<b>ESCWA</b>	United Nations Economic and Social Commission for Western Asia
<b>ESDF</b>	Egyptian Sustainable Development Forum
<b>EU</b>	European Union
<b>FAO</b>	The Food and Agriculture Organization of the United Nations
<b>GCF</b>	Green Climate Fund
<b>GEF</b>	the Global Environment Facility
<b>GIZ</b>	The German Agency for International Cooperation
<b>ICBA</b>	International Center for Bio saline Agriculture
<b>ICID</b>	International Commission on Irrigation and Drainage
<b>ICWC</b>	International Centre for Water Cooperation
<b>IHE</b>	Delft Institute for Water Education
<b>IMC</b>	Inter-Ministerial Committee Meeting
<b>ISC</b>	International Steering Committee
<b>IWMI</b>	International Water Management Institute
<b>LAS</b>	League of Arab States
<b>MWRI</b>	Ministry Of Water Resources and Irrigation
<b>NBCBN</b>	Nile Basin Capacity Building Network
<b>NENA</b>	Near East and North Africa Regional
<b>NWRC</b>	National Water Research Center
<b>OIC</b>	Organization of Islamic Cooperation
<b>PICI</b>	Presidential Infrastructure Champion Initiative
<b>RAED</b>	Arab Network for Environment and Development
<b>SciDev-Net</b>	Science and Development Network
<b>SDGs</b>	Sustainable Development Goals
<b>SIDA</b>	Swedish International Development Cooperation Agency
<b>SPIS</b>	Solar Power Irrigation System
<b>STEM</b>	Schools for Science, Technology, Engineering and Mathematics
<b>UFM</b>	Union for the Mediterranean
<b>UN</b>	United Nations
<b>UNESCO</b>	The United Nations Educational, Scientific and Cultural Organization
<b>WA</b>	Water Accounting
<b>WWC</b>	World Water Council



# CAIRO

## IN WORDS

Cairo “The City of a Thousand Minarets” is the capital of Egypt and with a total population in excess of 9 million people, one of the largest cities in both Africa and the Middle East. It is also the 19th largest city in the world, and among the world’s most densely populated cities.

On the Nile River, Cairo is famous for its own history, preserved in the fabulous medieval Islamic city and Coptic sites in Old Cairo. The Egyptian Museum in the center of town is a must see (few meters from the conference venue), with its countless Ancient Egyptian artifacts, as is shopping at the Khan al-Khalili bazaar. No trip to Cairo would be complete, for example, without a visit to the Giza Pyramids, and to the nearby Saqqara Pyramid Complex, where visitors will see Egypt’s first step pyramid built by the architect Imhotep for the third dynasty Pharaoh, Djoser.





Though firmly attached to the past, Cairo is also home to a vibrant modern society. The center of downtown Cairo is in Tahrir Square, which is located along the east bank. A hub of tourist activity, the vast and open square contains numerous attractions, including the Egyptian Museum, the Arab League headquarters, and the modern Umar Makram Mosque. Cairo's main thoroughfare, Corniche, extends from north to south along the east bank of the Nile. Located nearby is the narrow strip of land known as Garden City, one of the city's newer residential areas. In the center of the city is the river island of Zamalek (also called Jezerah, meaning "the island"), which contains an upscale residential and commercial neighborhood also known as Zamalek, the Cairo Opera House (founded in 1869), and the Cairo Tower (1961). Three bridges link the island of Zamalek with both banks of the river. The island of AL-Rodah, located to the south, is linked to the mainland by two additional bridges, while another bridge to the north carries road and rail traffic across the Nile. A felucca ride on the Nile is a good way to escape from the busy city, as well as a visit to AL-Azhar Park.



**Looking forward to seeing you in Cairo  
October 2019, Organizing Committee.  
Cairo Water Week 2019  
Ministry of Water Resources and Irrigation**



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