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جامعة الإسكندرية
ALEXANDRIA UNIVERSITY



The American University in Cairo

Center of Excellence for Water

**The Alexandria Water Resilience - Center of Excellence (AWR-COE)
Alexandria University International Water Symposium
(Sustainable Water Solutions)**

Four Seasons Hotel - Alexandria

6-7 September 2022



INTRODUCTION:

The international symposium on water research is one of the main tasks in the Center of Excellence for Water (COE) research pillar. This will be an annual international symposium hosted the first time by the Center of Excellence for Water at Alexandria University and then rotated to the other Egyptian Partner Universities (EPUs).

MAIN TOPICS:

- 💧 Water Use Efficiency
- 💧 Integrated Water Resources Management
- 💧 Safe Treated Wastewater & Reuse
- 💧 Non-conventional Water Resources & Desalination





The Alexandria Water Resilience Center of Excellence (AWR-COE) Alexandria University International Water Symposium (Sustainable Water Solutions)

Day 1: Tuesday, 6-9-2022

Four Seasons Hotel - Alexandria

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| 08:00 – 09:30 | REGISTRATION |
| 09:30 – 10:00 | <p style="text-align: center;">[Opening Ceremonies]</p> <ul style="list-style-type: none"> • National Anthem • Prof. Dr. Abdelaziz Konsowa, President of Alexandria University • Ms. Leslie Reed, USAID Mission Director, Cairo • Prof. Dr. Said Allam, Dean - Faculty of Engineering, AU |
| Plenary Session: I, Chairman: Prof. Dr. Walid Elbarky | |
| 10:00 – 10:45 | <p style="text-align: center;">Dr. Hossam Moghazy Professor and Head of Irrigation and Hydraulics Department, Faculty of Engineering, AU (Former Minister of Water Resources and Irrigation) Egyptian Water Resources and Climate Changes, Challenges and Solutions</p> |
| 10:45 – 10:30 | <p style="text-align: center;">Dr. Salah Elhagar Professor of Mechanical Engineering, AUC Net Zero Wastewater Concept</p> |
| 11:30 – 12:15 | <p style="text-align: center;">Dr. Ali Elbahrawy Professor of Hydraulics, ASU Water Projects, SDGs, Egypt Strategy 2030</p> |
| 12:15 – 13:30 | Opening Of Exhibition and Coffee Break |
| COE Message | |
| 13:30 – 13:45 | <p style="text-align: center;">Dr. Essam Shaaban COP of COE Project COE Water Project Objectives and Progress</p> |
| 13:45 – 14:00 | <p style="text-align: center;">Dr. Yasser Khalil Director AWR-COE AWR-COE Activities and Outlook</p> |
| Plenary Session: II, Chairman: Prof. Dr. Essam Shabaan | |
| 14:00 – 14:30 | <p style="text-align: center;">Dr. Kurt Becker Professor of Engineering Education, USU Toward a Sustainable Water Future: The Role of Innovative Water Education for Training the Next Generation of Water Professionals</p> |
| 14:30 – 15:00 | <p style="text-align: center;">Dr. Rominder Suri Professor of Environmental Engineering, Director of W.E.T Center, TU Advanced Water Treatment</p> |
| 15:00 – 15:30 | <p style="text-align: center;">Dr. Brent Haddad¹ & Mr. Daniel Hastings² 1. Professor of Environmental Studies, 2. Ph.D. Candidate, UCSC Drying Basins, Water Management, Dust Control, and Public Health: a Salton Sea Case Study</p> |
| 16:00 - 17:00 | Lunch |



The Alexandria Water Resilience Center of Excellence (AWR-COE) Alexandria University International Water Symposium (Sustainable Water Solutions)

Day 2: Wednesday, 7-9-2022

Four Seasons Hotel - Alexandria

SESSION I: WATER USE EFFICIENCY

Chairman: Prof. Dr. Abdelazim Negm

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| 09:30 – 09:50 | Eng. Ahmed Gaber Chief Executive Officer, Alexandria Water Company (AWCO) Domestic Water Supply Challenges |
| 09:50 – 10:10 | Eng. Amr Eladwy Deputy Chief Executive Officer, Abu Qir Fertilizer and Chemicals Company(AFC) Zero Liquid Discharge in Industry, Case Study AFC |
| 10:10 – 10:30 | Dr. Ahmed Hasan Gaber Professor of Chemical Engineering, Faculty of Engineering, CU Water/wastewater Sector Transition to Green Economy: Challenges and Opportunities |
| 10:30 – 11:00 | Poster Session and Coffee Break |

SESSION II: INTEGRATED WATER RESOURCES MANAGEMENT

Chairman: Prof. Dr. Ali Elbahrawy

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| 11:00 – 11:20 | Dr. Anwar Aly Professor of Water Resources Management, Faculty of Agriculture, AU The Integrated Management of the Resources within the Water-Energy-Food Nexus, WEF |
| 11:20 – 11:50 | Dr. Osama Sallam Professor of Water Resources; NWRC, Director of Groundwater Projects; Environment Agency Abu Dhabi, UAE Water Footprint and Water Resources Management |
| 11:50 – 12:20 | Dr. Abdelazim Negm Professor of Hydraulics, Faculty of Engineering, ZU Integrated Water Resources Challenge in Egypt |

SESSION III: SAFE TREATED WASTEWATER & REUSE

Chairman: Prof. Dr. Yehia Elshazly

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| 12:20 – 12:40 | Dr. Walid Abdelazeem Elbarky Professor of Sanitary Engineering and Vice Dean for Society Service and Environmental Development Affairs, Faculty of Engineering, AU Domestic Grey Water Treatment and Reuse Prototype |
| 12:40 – 13:00 | Dr. Dalia Younis Vice Dean college of international transport and logistics, AASTMT Application of Artificial Intelligence to Wastewater Treatment (Technologies, Economy, Management) and Wastewater Reuse |
| 13:00 – 13:20 | Dr. Badr Mabrouk Professor of Hydrogeology, Faculty of Science, ZU Reducing Pollution Intensity in Egyptian Drains Using Innovative Techniques of Electric Coagulation Using Direct Current by Solar Cells |



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Four Seasons Hotel - Alexandria

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| 13:20 – 14:00 | <p>Public and Private Partnership Panel Discussion Prof. Dr. Essam Shabaan Prof. Dr. Asmaa Hamouda (Mentors)</p> |
| 14:00 – 14:30 | <p>Coffee Break and Exhibition</p> |
| <p>SESSION IV: NONCONVENTIONAL WATER RESOURCES & DESALINATION Chairman: Prof. Dr. Osama Sallam</p> | |
| 14:30 – 14:50 | <p>Dr. Manal Eloffy National Institute of Oceanography and Fisheries(NIOF), Egyptian Engineers Syndicate Council, Water Committee. Desalination Technologies and Energy Challenges</p> |
| 14:50 – 15:10 | <p>Dr. Maha Elbana Associate Professor, Soil Physics & Water Relationships, Soil Department, Faculty of Agriculture, BSU Non-conventional Water Resources: A pillar for Climate Change Mitigation Strategies</p> |
| 15:10 – 15:30 | <p>Dr. Radwan Mostafa Professor of Mechanical Power Engineering, ZU Desalination Future in Egypt, Technologies, and Figures</p> |
| 15:30 – 15:45 | <p>Dr. Zeina Elzein Helwan University WEF Winning Project Group</p> |
| 15:45 – 16:00 | <p>Best Poster Award & Closure</p> |
| 16:00 – 17:00 | <p>Lunch</p> |

Thank You For Your Participation