Sharm El Sheikh—Egypt
12 – 14 March 2015
Under the auspices of his excellency

Prof. Dr. Hossam El Moghazy

Minister of Water Resources and irrigation, Egypt

Honorary Board

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President of AASTMT, Arab League

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President of Zagazig University, Egypt

&

Prof. Dr. Ahmed ElGohary

President of Egypt-Japan University of Science and Technology, E-JUST, Egypt
It is my great pleasure to welcome you all to the Eighteenth International Water Technology Conference. This conference has already established itself as a key event in which the most influential researchers in the different Water-related fields and regulators from related governmental bodies and firms can come together to exchange insights and to influence each other’s agendas.

This 18th session this session is organized in the same time Egypt's International economic conference in Sharm . It is a massage addressed world wide of peace and security in Sharm El Sheikh.

In this occasion and on behalf of organizing committee, I would like to extend my deep gratitude to The organizing committees,, for their continuous hard work in the organization of this conference.

I would like to extend my warmest regards to every guest, participant, and observer joining our conference; hoping that it will be successful and fruitful.

On behalf of the International Water Technology Association members, I would like to acknowledge the encouragement and support received from the official organizations in Egypt which has assured the continuity of Association activities since 2004 up to now.

Dear gratitude for conference sponsors; the respected ministers for their auspices and support for the organization of this conference.

Prof. Magdy Abo Reyne

President of International Water Technology Association
&
IWTC18 Chairman
Program Index

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The organizing committees extend to every participant a warm welcome to the Eighteenth International Water Technology Conference IWTC 2015.

We hope that you will find time to follow researches and savor the ethnic, business, international and cultural aspects of our setting. We will do our best to make your stay in Sharm El Sheikh, Egypt very enjoyable.

Organizing Committee

Visit our Web Page: iwtc.info
The conference is organized by:

**Main Organizer**

International Water Technology Association (IWTA) [iwta.info]

**Academic Organizers**

- CCNY, City College New York, USA
- BNU, Beijing Normal University, China
- BRGM, French Geological Survey, France
- CNR, National Research Council, Italy
- SIO, P.P. Shirshov Institute of Oceanology, RAS, Russia
- E-JUST, Egypt-Japan University of Science and Technology, Egypt
- Osaka University, Japan
- TIT, Tokyo Institute of Technology, Japan
Conference Chairperson

Prof. Magdy Abou Rayan

President of International Water Technology Association

Conference Honorary Chairpersons

Prof. Dr. Mohammed El kenawy

President of Mansoura University, Egypt

&

Prof. Dr. Ismail Abdel Ghafar

President of AASTMT, Arab League

&

Prof. Dr. Ashraf El Shehi

President of Zagazig University, Egypt

&

Prof. Dr. Ahmed El Gohary

President of Egypt-Japan University of Science and Technology, E-JUST, Egypt
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Scientific committee Chairmen

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Russian Academy of Sciences, Russia

&

Abdel Razik Zidan

Mansoura University, Egypt

Conference Secretaries General

Abdelazim Negm

E-JUST, Egypt

Public relation & Exhibition

Magdy El Sharkawy

IWTC Exhibition Coordinator, IWTA, Egypt

&

Mohammed Zakaria

Mansoura University, Egypt
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  Environment Consult, Saudi Arabia
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  Fatih University, Turkey
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  BRGM, France
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- Tamim Younos  
  The Cabell Brand Center, Virginia, USA
- Thomas Ammerl  
  Bavarian Research Alliance, Germany
**CONFERENCE SCIENTIFIC COMMITTEE**

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<td>Ibrahim Gar Al-Alm</td>
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<td>Jean Francois Cretaux</td>
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<td>Mohamed Soliman</td>
<td>Ministry of Water Resources, Egypt</td>
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<td>Mona Gamal El Din</td>
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<td>Raja Ben Amar</td>
<td>Sfax University, Tunisia</td>
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<td>Safe Elden Metwaly</td>
<td>Desert Research center, Egypt</td>
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<td>Salvatore Straface</td>
<td>University of Calabria, Italy</td>
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<td>Stefano Vignudelli</td>
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<td>Sayyed-Hassan Tabatabaei</td>
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<td>Sohair Abou-Elela</td>
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<td>Tomoo Ushio</td>
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<td>Vincenzo Lapenna</td>
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<td>Zen Kawasaki</td>
<td>Osaka University, Japan</td>
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LOCAL EXECUTIVE COMMITTEE

Zaki Zidan
Co-chairman, Mansoura University, Egypt.

Mohamed Ghieda
Chairman, Mansoura University, Egypt.

Kamal El-Nahhas
Suez Canal Authority, Egypt

Raafat Mandor
Mansoura University, Egypt.

Mohammed Zakaria
Mansoura University, Egypt

Walaa Tarek
Mansoura University, Egypt

Adel Abdel Aziz
Mansoura University, Egypt

Andromeda Mouckpell
IWTA
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  Administration Affairs, Mansoura University

- Walaa Tarek  
  Technical Affairs, Mansoura University

- Andromeda Mouckpell  
  Technical Affairs, IWTA

- Adel Abdel Aziz  
  Mansoura University
Thursday – March 12, 2015

10:00 – 19:00 Registration
13:00 – 14:00 Workshops 1,2
14:00 – 15:00 Coffee Break
15:00 – 17:00 Session 1,2,3
18:00 – 19:00 Opening Ceremonies
19:00 – 19:30 Invited Speaker 1
19:30 Dinner

Friday – March 13, 2015

10:00 – 12:00 Session 4,5,6
12:00 – 13:00 break
13:00 – 13:30 Invited speakers 2
13:30 – 14:00 Coffee Break
14:00 – 16:00 Session 7,8,9
16:00 – 18:00 Session 10,11,12

Saturday – March 14, 2015

10:00 – 12:00 Session 13,14,15
12:00 – 14:00 Session 16,17,18
14:00 – 14:30 Coffee Break
14:30 – 16:30 Session 19
16:30 – 18:30 Workshops 3,4
18:30 – 19:30 Closing ceremony
### Thursday– March 12, 2015

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<td>Opening Ceremonies</td>
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<td>19:00 – 19:30</td>
<td>Invited Speaker(^1) Professor Michael Piasecki</td>
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<td></td>
<td>* Hydro informatics: Past and Current Focal Points *</td>
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<td>19:30</td>
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<td>Invited Speaker(^2) Prof. Andrey G. Kostianoy</td>
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<td>&quot;Regional climate change in Central Asia and North Africa&quot;</td>
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<td>Closing Ceremonies</td>
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TECHNICAL SESSIONS

No. of Sessions  19
No. of Papers    89
**Session 1**

**GROUNDWATER FLOW AND CONTAMINATION (GW)"A"**

Place: Room (A)
Thursday– March 12, 2015 15:00 – 17:00

**CHAIRPERSONS:**
- Safi Eldin Metwally, Desert Research center, Egypt
- Jean Francois, CNES, France

15:00 – 15:20  
**“Numerical simulation of heavy metal transport from polluted drain”**  
Yasser Hamed  
Faculty of Engineering, Port Said University (current position: Faculty of Engineering, Salman Bin Abdulaziz University, KSA)

15:20 – 15:40  
**“Prediction of future ground water elevation by using Artificial Neural Network south of Riyadh, KSA (Case Study)”**  
Yasser Hamed, Mohamed Elkiki, Osama S. Al Gahtani  
1, 2 (Current position: 1visiting associate professor, Faculty of Engineering, Salman Bin Abdulaziz University, KSA, Egypt), Civil Engineering Department, Faculty of Engineering, Port Said University, Port Fouad Port Said - 2 Civil Engineering Department, Faculty of Engineering, Port Said University, Port Fouad Port Said visiting associate professor, Current position Faculty of Engineering, ElGouf University, KSA,)  
Civil Engineering Department, Faculty of Engineering, Salman bin Abdulaziz University, Riyadh, Saudi Arabia

15:40 – 16:00  
**“Tidal effect on groundwater fluctuations and saltwater intrusion in coastal heterogeneous unconfined aquifers (case study: miami beach)”**  
Hamdy A. El-Ghandour, Mahmoud E. Abd-Elmaboud, and Kassem S. El-Alfy  
1 M.Sc. Student, Irrigation & Hydraulics Dept., Faculty of Engineering, Mansoura University, Egypt.  
2 Assistant professor, Irrigation & Hydraulics Dept., Faculty of Engineering, Mansoura University, Egypt.  
3 Professor, Irrigation & Hydraulics Dept., Faculty of Engineering, Mansoura University, Egypt.

16:00 – 16:20  
**“A comparative study for discharge-drawdown relationship of eccentric wells in unconfined aquifers”**  
Hasan G. Elmazoghi, and Lubna S. Bentaher  
1 Assistant Prof., Civil Eng. Dept., Univ. of Benghazi, Libya,  
2 Research assistant, Civil Eng. Dept., Univ. of Benghazi, Libya.

16:20 – 16:40  
**“Influence of the hydrogeological parameters on low enthalpy geothermal systems”**  
S. Straface, R. Maccarone, M. De Biase, and F. Chidichimo  
1 Department of Environmental and Chemical Engineering, University of Calabria - Italy  
2 School of Engineering, University of Basilicata – Italy

16:40 – 17:00  
**Discussion**
**SESSION 2**

**WATER TREATMENT TECHNOLOGY (WASTE WATER) (WTT) "A"**

Place: Room (B)  
Thursday– March 12, 2015  
15:00 – 17:00

**CHAIRPERSONS:**
- Sohair I. Abou-Elela, National Research Center, Egypt  
- Ibrahim Gar Al-Alm, Mansoura University, Egypt

15:00 – 15:20

“Assessment of two natural wastewater treatment technologies to improve drainage water quality in the Nile Delta.”  
Ahmed El-Hawary  
Drainage Research Institute

15:20 – 15:40

“Artificial neural networks to predict wastewater treatment in different media HSSF constructed wetlands”  
Zidan, A.A.I, Rashed, A. A.2, Hatata A. Y3., and Abd El-Hady, M. A.  
1 Prof. of Hydraulics, El-Mansoura University, E-  
2 Associate Professor, National Water Research Center, E-  
3. Lecturer, Electrical Engineering Dept. El-Mansoura University E-  
4 Lecturer, Irrigation and Hydraulics Dpt. El-Mansoura University, E-  
12

15:40 – 16:00

“Nitric oxide for anammox recovery in nitrite-inhibited deammonification systems”  
Ivar Zekker  
Estonia

16:00 – 16:20

“Of heavy metals ions from drainage water using duckweed-based treatment ponds”  
A. Allam1, A. Tawfik2, and A. Negm3  
1Environmental Engineering Department, School of Energy and Environmental Engineering, Egypt-Japan University of Science and Technology, E-JUST  
26

16:20 – 16:40

“Chromium removal from tannery waste water by adsorption using powdered marbre wastes as adsorbent”  
Saliha El Abbas1, Laila Mandi2, Naaila Ouazzani3  
1Laboratory of Hydrobiology, Ecotoxicology and Sanitation  
2 National Center for Studies and Research on Water and Energy  
39

16:40 – 17:00

“Optimal operation of activated sludge processes under heavy storm water”  
Moharram Fouad  
Department of Civil Engineering, Mansoura University, Mansoura, Egypt  
78
Session 3

WATER QUALITY AND ENVIRONMENT (WQ)"A"

Place: Room (C)
Thursday– March 12, 2015 15:00 – 17:00

CHAIRPERSONS:
- Raja Ben Amar, Sfax University, Tunisia
- Ahmed Tawfik, E-JUST, Egypt

15:20 – 15:40 “Assessment of groundwater quality and its suitability for drinking and agricultural uses the Cambro-Ordovician (CO) aquifer, Jabal Hasouna of”
Fathi A. Swaid, Libya
Director of Research and Engineering Consultants, Man-made River Water Utilization Authority, Middle Region, Libya

15:40 – 16:00 “Aquatic weeds management upstream new Naga Hammady barrages.”
Hosam Ibrahim1, Emam A. Osman2, T.A. El -Samman3, and Mahmoud Zayed4
1 Channel Maintenance Research Institute (CMRI), National Water Research Center
2 Channel Maintenance Research Institute (CMRI), National Water Research Center
3 Channel Maintenance Research Institute (CMRI), National Water Research Center

16:00 – 16:20 “Water demand and supply in Santa Cruz Island-Galápagos Archipelago”
M. Reyes1, N. Trifunović1, S. Sharma1, M. Kennedy1,2
1 UNESCO–IHE Institute for Water Education, Department of Environmental Engineering and Water Technology, The Netherlands
2 Delft University of Technology, Faculty of Civil Engineering and Geosciences The Netherlands

16:20 – 16:40 "Groundwater quality investigation using water quality indexed and arcgis : case study : western Nile Delta aquifer, Egypt"
Asaad M. Armanuos1, Abdelazim Negm2, Oliver C. Saavedra Valeriano3
1 Ph.D. Student, Environmental Engineering Dept., School of Energy and Environmental Engineering, Egypt-Japan University of Science and Technology, E-JUST, Alexandria (Assistant lecturer, Tanta University),
2Chair of Environmental Engineering Dept. School of Energy and Environmental Engineering, Egypt-Japan University of Science and Technology, E-JUST, Postal Code 21934, Alexandria (Seconded from Zagazig University,
3 Dr. of Eng., Associate Professor, Dept. of Civil Engineering, Tokyo Institute of Technology(2-12-1 Oookayama, Meguro, Tokyo 152-0033, Japan), Also at E-JUST
Place: Room (A)  
Friday– March13, 2015  
10:00 – 12:00

CHAIRPERSONS:
- Nabil Hassan ZU
- Medhat Aziz Nile research institute

10:00 –10:20  
“Hydrological and environmental impacts of grand Ethiopian renaissance dam on the Nile River”  
Abdelkader T. Ahmed¹ and Mohamed Helmy Elsanabary ²  
¹Civil Engineering Department, Faculty of Engineering, Aswan University, Egypt.  
²Civil Engineering Dept., Port Said University, Port Said, Port Fouad, 42526, Egypt

10:20–10:40  
“Effect of composite roughness on discharge in open channels”  
I.M.H. Rashwan¹, Shimaa M. Gharaaba 2, Ahmad El Shishtawy M. Zahrany 3 and Mohamed A. Dapaan Egypt  
¹Faculty of Engineering, Tanta University, Egypt  
²Faculty of Engineering, Tanta University, Egypt  
³Faculty of Engineering, Tanta University, Egypt

10:40–11:00  
“Effect of foundation flexibility on seismic response of concrete gravity dams”  
Bakenaz A. Zeidan Egypt  
Faculty of Engineering, Tanta University, Tanta, Egypt

11:00- 11:20  
“Manning's roughness coefficients for sewer subjected to scum”  
Moharram Fouad¹ and Alaa Kishk²  
¹Associated professor of sanitary Engg, Faculty of Engineering, University of Mansoura  
²Ph.D Candidate of sanitary Engg, Faculty of Engg, University of Mansoura

11:20-11:40  
"Historical channel change analysis of Gumara River, upper blue Nile basin, Ethiopia"  
Mengiste Abate¹, Jan Nyssen², Tammo Steenhuis1,3, Michael Mehar1, Seifu Admassu¹, Temesgen Enkul¹, Enyew Adgo4Ethiopia  
1School of Civil and Water Resources Engineering, Institute of Technology, Bahir Dar University, Ethiopia  
2Department of Geography, Ghent University, Belgium  
3Department of Biological and Environmental Engineering, Cornell University, USA  
4College of Agriculture and Environmental Sciences, Bahir Dar University, Ethiopia

11:40- 12:00  
"Numerical investigation of performance of kaplan turbine with draft tube"  
Mohamed Adel and Nabil H. Mostafa  
Mechanical Power Engineering Department, Engineering Faculty Zagazig University
Eighteenth International Water Technology Conference IWTC 2015, Sharm El Sheikh, Egypt

Session 5

DESALINATION "A"

Place: Room (B)
Friday–March 13, 2015
10:00 – 12:00

CHAIRPERSONS:
• Abd Elnaby Kabeel Tanta University, Egypt
• Kamal El-Nahhas Suez Canal Authority, Egypt

10:00 – 10:20
“Effect of using nanofluids and providing vacuum on the yield of corrugated wick solar still”
F.A. Essa1, A.E. Kabeel2, and Z.M. Omara3 Egypt
1 Mechanical Engineering Department, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh, Egypt,
2 Mechanical Power Engineering Department, Faculty of Engineering, Tanta University, Tanta, Egypt,
3 Mechanical Engineering Department, Faculty of Engineering, Kafrelsheikh University, Kafrelsheikh, Egypt

10:20 – 10:40
“Experimental and theoretical study of a nanofluid solar collector assisted-hybrid desalination system for small communities needs”
Emad M. S. El-Said A. E. Kabeel Egypt
Mechanical Power Engineering Department Faculty of Engineering Tanta University
Mechanical Engineering Department Faculty of Engineering Fayoum University

10:40 – 11:00
“Solar bubbling humidification–dehumidification desalination unit”
A. Khalil, S. A. El-Agouz, Y. A. F. El-Samadony, A. I. Abdo Egypt
1 Mech. Power Eng. Department, Faculty of Eng., Tanta University, Egypt

11:00 – 11:20
“Comparison of the experimental unit for the desalination of sea water solar with Tracking system and without the tracking system”
Ali Fadiel Ali, And Mohammed Saleh Rezk Libya
Ma Master of Mechanical Engineering
Ma Master of Mechanical Engineering

11:20 – 11:40
“Absorptance of different local floated surfaces to solar radiation in Egypt”
Helmy E. Gad 1, Safya M. El-Gayar 2 and Hisham H. Gad3 Egypt
1 Mansoura University,
2 Agric. Eng. Res. Inst. A. R. C, Giza,
3 Mansoura University

11:40 – 12:00
Discussion
Place: Room (B)
Friday– March 13, 2015 10:00 – 12:00

**CHAIRPERSONS:**
- **Badr Mabrouk**  Zagazig University
- **Safe Elden Metwaly**  Desert Research center, Egypt

**10:00 – 10:20**

“New design for drip irrigation system to maximize water and fertilizers”
**R. E. Abdelraouf**  
Water Relations & Field Irrigation Dept., National Research Center, Dokki, Giza - Egypt

**10:20 – 10:40**

“Impact of solar radiation on saline water quality and its application for turnip yield”
**S. Mahmoud**, **A. S. Shakir**, and **K. Shahzad**
Centre of Excellence in Water Resources Engineering, UET-GT Road, Lahore, Pakistan

**10:40 – 11:00**

“Protection of irrigation water from the risk of fertilizers transport through the soil”
**Mohamed Eltarabily**, **Abdelazim M. Negm**
1 PhD Student, Environmental Engineering Dept., School of Energy and Environmental Engineering, Egypt - Japan University of Science and Technology (E-JUST).  
2 Chair of Environmental Engineering Dept., School of Energy and Environmental Engineering, Egypt - Japan University of Science and Technology (E-JUST)

**11:00 - 11:20**

“Ground penetrating radar images for determination of shallow groundwater during the vegetative cycle of a crop”
**A. Satriani**, **A. Loperte**, and **F. Soldovieri**
1 Institute of Methodologies for Environmental Analysis CNR, Tito (PZ) – Italy  
2 Institute of Electromagnetic Sensing of the Environment (IREA-CNR), Napoli, Italy

**11:20 – 11:40**

“Study of alaqi secondary channel in Nasser Lake”
**Gamal Sallam**, **Mohamed Ihab**, and **Waleed Emary**
Institute, National water Research Center, Cairo, Egypt

**11:40 – 12:00**

Discussion
Session 7

GROUNDWATER FLOW AND CONTAMINATION (GW) “B”

Place: Room (A)
Friday– March 13, 2015 14:00 –16:00

CHAIRPERSONS:

- Abdel Razik Zidan Mansoura University, Egypt
- Lahcen Benaabidate Fez University, Morocco

14:00 –14:20  “Remediation scenarios of a heavily polluted coastal aquifer simulated with 3D numerical model ”
F. Chidichimo₁, F. Saraceni₁, P. Celico² and S. Straface³Italy
1 Department of Environmental and Chemical Engineering, University of Calabria - Italy
2 Dipartimento di Scienze della Terra, Università degli Studi Federico II di Napoli - Italy
87

14:20–14:40  “Nature of groundwater in Libya southwestern zone and corrosion in the conveying metallic pipes”
Salaheddin A. Serrag₁, Abdul-khaliq M. Hussain ², Raja M. Sager ³Libya
1 Civil Engineering Dept., University of Tripoli, Libya
2 Civil Engineering Dept., University of Tripoli, Libya
3 Civil Engineering Dept., University of Tripoli, Libya
100

14:40–15:00  “Operating procedures for groundwater aquifer’s tracer test program in Kuwait”
M. Al-Senafy₁, A. Al-Khalid₁, A. Mukhopadhyay₁, K. Al-Fahad₁, and Harish Bhandary₁
₁ Kuwait Institute for Scientific Research Kuwait
112

15:00 - 15:20  "An Assessment of Groundwater Quality in Funtua Northeast, Katsina State" Aliyu Ibrahim Kankara Nigeria
Dept. of Geography and Regional Planning, Federal University PMB 5001, Dutsin-Ma, Katsina State, Nigeria
117

15:20 - 15:40  Discussion
Eighteenth International Water Technology Conference IWTC 2015, Sharm El Sheikh, Egypt

Place: Room (B)  
Friday– March13, 2015  14:00–16:00

CHAIRPERSONS:
- Sherine S. Ismail  NRI, Ministry of Water Resources and Irrigation, Egypt
- Medhat Aziz  Nile research institute

14:00 –14:20  “Enhancement use of water surface runoff in Nile Basin Countries”
Tarek Mohamed Abdel-Aziz  Egypt  
Professor and Deputy Director Nile Research Institute, National Water research Center

14:20–14:40 “Water footprint in the life cycle of construction materials – case study Egyptian brick ”
Ahmed Abdel Monteleb M. Ali¹, Abdelazim M. Negm 2, Mahmoud F. Bady 3, Mona G.E. Ibrahim 4 
EGypt
1PhD Student at Environmental Engineering Department, Egypt-Japan University of Science and Technology,  
2Chair of Environmental Engineering Department, Egypt-Japan University of Science and Technology,  
3Assistant Professor at Environmental Engineering Department, Egypt-Japan University of Science and Technology,  
4 Dean of School of Energy, Environment and Chemical & Petrochemical Engineering, Egypt-Japan University of Science and Technology (E-JUST)

14:40–15:00 “A simplified design of telemetry system for efficient monitoring of surface water networks ”
S. Mumir¹, N. Ahmed2Iraq  
1 University of Kurdistan Hewler, Erbil, Iraq  
2 CEWREM, University of Engineering and Technology, Lahore, Pakistan

15:00 - 15:20 "Distribution of some metal ion in Suez Canal from Port Said to Suez during 2011”
Yosry A. Soliman1, Mohamed A. Hamed1 , Lamiaa I. Mohamedein1, N. G. El - Koly2,  
Aida A. Salman2and Ghada Y. Zaghloul1Saudi Arabia  
1 National Institute of Oceanography and Fisheries (Suez and Hurghada)  
2 Chemistry Department- Faculty of science Al- Azhar University (Girls branch)

15:20 - 15:40 "Reduce evaporation from open water storages by monolayers ”
Sofiane Saggai², Djamel Boutoutaou 1, Dalilia Benlarbi1 and Oum Elkheir Bachí 2,3Algeria  
1University of Kasdi Merbah Ouargla, Laboratory of Exploitation and Valorization of Natural  
2Scientific and Technical Research Center in Arid Regions -Touggourt station –Algeria  
3 University of Kasdi Merbah Ouargla. Laboratory of Saharan Bio-resources: Preservation  
and Valorization, Ouargla 30000 Algeria.

15:40- 16:00 "Flow reduction impacts along river Nile in Egypt "
Sherine S. Ismail  
NRI, Ministry of Water Resources and Irrigation, Egypt
Session 9

WATER TREATMENT TECHNOLOGY (B)

Place:     Room (C)
Friday– March 13, 2015  14:00–16:00

CHAIRPERSONS:

* Abd Elnaby Kabeel  Tanta University, Egypt
* Ibrahim Gar Al-Alm  Mansoura University, Egypt

14:00 – 14:20  “Application of surfactants for efficient hydrogen production from paperboard mill wastewater”
A. Farghaly; A. Tawfik; Mona Gamal El-din Egypt
Egypt - Japan University of Science and Technology (E-JUST); Environmental Engineering

14:20–14:40  “Treatment of landfill leachate in a combined up-flow anaerobic sludge blanket (UASB) reactor followed by down-flow hanging sponge (DHS) system”
Sherif A. El-Bashir*, and Ahmed Tawfik  Egypt
Egypt - Japan University for Science and Technology (E-Just); Environmental Engineering

14:40 – 15:00  “Solar bubbling humidification–dehumidification desalination unit”
A. Khalil, S. A. El-Agouz, Y. A. F. El-Samadony, A. I. Abdou  Egypt
1Mech. Power Eng. Department, Faculty of Eng., Tanta University, Egypt

15:00 - 15:20  “Removal of sulfamethoxazole and tylosin from aqueous solutions by photocatalysis using titanium dioxide coated media”
Olfa Ahmed1, 2*, Hinda Lachheb1, Orfan Zahraa2 and Ammar Houas1, 3 Tunisia
1Research Unit of Catalysis and Materials for Environment and Processes URCMEP (UR11ES85) Faculty of Sciences of Gabes, Tunisia,
2Laboratory of Reactions and Process Engineering, CNRS UMR 7274, ENSIC, Nancy, France,
3Al Imam Mohammad Ibn Saud Islamic University (IMSIU), Department of Chemistry, College of Sciences, Riyadh, Saudi Arabia,

15:20 - 15:40  “Rejuvenation of Village Ponds in Rajasthan, India”
Sidharth Sihag, Rukmani Riar  India
Govt of India

15:40- 16:00  “In-situ Biological Water Treatment Technologies for Environmental Remediation: A Review”
Mohamed Ateia1 and Chihiro Yoshimura 1 Japan
1Department of Civil Engineering, Tokyo Institute of Technology, 2-12-1-M1-4 Ookayama

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Session 10

WATER RESOURCES PLANNING AND MANAGEMENT "B"

Place: Room (A)
Friday– March 13, 2015  16:00 – 18:00

CHAIRPERSONS:
- Oliver Saavedra  TIT, Japan
- Medhat Aziz Nile research institute

16:00 – 16:20  “Assessment of runoff potential of a small watershed southern Palestine ”
Samah Jabari, Majed Abu Sharkh, Ziad Al-Mimi  Palestinian Territory
Palestine Polytechnic University
Public Authority for Electricity and Water
Birzeit University

16:20 – 16:40  “Analysis of gross alpha and beta radio-activities levels in bottled mineral waters sold in Saudi Arabia”
A. S. AL-Hobaib¹, Kh. M. AL-Sheetan¹  Saudi Arabia
King Abdulaziz City for Science & Technology (KACST), Institute of Atomic Energy Research, Saudi Arabia

16:40 – 17:00  “Hydrodynamic impacts of Egyptian costal lakes due to climate change – example Manzala lake”
Mohamed Elshemy¹, Mosaad Khadr²  Egypt
1, 2 Irrigation and Hydraulic Engineering Department, Faculty of Engineering, Tanta University, Egypt

17:00 – 17:20  “Data – driven modelling for water quality parameters prediction of the drainage system associated with lake Manzala, Egypt”
Mosaad Khadr¹, Mohamed Elshemy²  Egypt
1, 2 Irrigation and Hydraulic Engineering Department, Faculty of Engineering, Tanta University, Egypt

17:20 – 17:40  “Waste water treatment under Algerian arid conditions : comparison between two processes ( lagoon and activated sludge)”
Oum Elkheir BACHI ¹², Med Tahar HALLAT², Samia BISSATI¹  Algeria
¹University of Kasdi Merbah Ouargla, Laboratory of Saharan bio-resources: conservation and valorization, Faculty of Sciences of Nature and Life, Ouargla 30000 Algeria.
²Scientific and Technical Research Center in Arid Regions -Touggourt station –Algeria.

17:40 – 18:00  Discussion
Session 11

DESalination and water treatment

Place: Room (B)
Friday–March 13, 2015 16:10 – 18:00

Chairpersons:
- Abd Elnaby Kabeel Tanta University, Egypt
- Kamal El-Nahhas Suez Canal Authority, Egypt

16:00 – 16:20
“A study in activation of El-Maghara coal for use in the removal of some heavy ions from liquid industrial wastes”
Basma El-Saied Ahmed Zahran
Egyptian Petrochemical Company

16:20 – 16:40
“Experimental study on different solar still designs for Egyptian climate conditions”
M.S. El-Sebaey, Sh. Shams El-Din, M. Habib and A. El-Hanafy
Mechanical Power Engineering Department, Faculty of Engineering
Minoufiya University, Shebin El-Kom, Egypt

16:40 – 17:00
“Heat and Mass Transfer Analysis in a Conical Solar Still: An Experimental Study”
H. E. Gad, Sh. Shams El-Din, A. A. Hussien and Kh. Ramzy
Department of Mechanical Power Engineering, Faculty of Engineering
Mansoura University, Egypt

17:00 – 17:20
“Laboratory Investigation of Aerobic Granular Sludge Performance at High Temperature”
M. Bob, S. Azmi, M. Abd Halim, N. Jamal, A. Nur Anuar3, Z. Ujang
1 Department of Civil Engineering, Taibah University, Madinah, Kingdom of Saudi Arabia.
2 Department of Environmental Engineering, Faculty of Civil Engineering, Universiti Teknologi Malaysia, Johor, Malaysia.
3 Institute of Environment and Water Resource Management, WATER Research Alliance, Universiti Teknologi Malaysia, Johor, Malaysia

17:20 – 17:40
“Energy production from organic waste material”
M. Elsamadony, A. Tawfik
1 Egypt-Japan University of Science and Technology (E-JUST), Environmental Engineering

17:40 – 18:00
Discussion
Session 12

WATER PURIFICATION AND NETWORKS

Place: Room (C)
Friday– March 13, 2015 16:10 – 18:10

CHAIRPERSONS:

- Kamal El-Nahhas Suez Canal Authority, Egypt
- Ibrahim Gar Al-Alm Mansoura University, Egypt

16:00 – 16:20 "Pressure management in water distribution network by multi-objective genetic algorithm"
H. A. El-Ghandour1, M. M. El-Gamal2, A. S. El-Ansary3, and A. R. Zidan4 Egypt

1 Assis. Prof., Irrigation & Hydraulics Dept., Fac. of Engrg., Mansoura Univ., Egypt,
2 Prof., Irrigation & Hydraulics Dept., Fac. of Engrg., Mansoura Univ., Egypt,
3 Prof., Irrigation & Hydraulics Dept., Fac. of Engrg., Cairo Univ., Egypt,
4 Prof., Irrigation & Hydraulics Dept., Fac. of Engrg., Mansoura Univ., Egypt.

16:20 – 16:40 "Real-time monitoring of drinking water quality using advanced devices"
Amani Abdallah, Isam Shahrour France

Laboratoire Génie Civil et Géo-Environnement (LGCGE), Polytech'Lille, Lille, France

16:40 – 17:00 "Application of Aquis 1.4 to maintain the free residual chorine level in water distribution system according to the Water Safety Plan, The Metropolitan Waterworks Authority, Bangkok Thailand"
Nisapas Wongpat, Porrawee Nakakul, Sarapon Treesuwan, Torpong Choophanth Thailand

The Metropolitan Waterworks Authority 400 Prachachuen Rd, Laksi Bangkok 10210 THAILAND

17:00 - 17:20 "Antibacterial silver embedded nanofibers for water disinfection"
Th. Shalaby1, O. Abd El Kader2, and A. Aloufy3

1 Medical Biophysics Dept., Medical Research Institute, Alexandria University,
2 Microbiology Dept., Medical Research Institute, Alexandria University
3 Textile Eng. Dept., Faculty of Engineering, Alexandria University

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17:20 - 17:40 Discussion
Place: Room (A)  
Saturday–March 14, 2015  10:00-12:00

CHAIRPERSONS:  
- Abdelazim Negm E-JUST, Egypt  
- Oliver Saavedra TIT, Japan

10:00 – 10:20  “An investigation on water pollution detection by a microwave cavity sensor.”  
G. Gennarelli, F. Soldovieri  
Institute for Electromagnetic Sensing of the Environment,  
National Research Council of Italy, via Diocleziano 328, 80124, Napoli, Italy

10:20- 10:40  “The study of contaminant transport process in the subsoil by integrated geophysical EM techniques: a sand box experiment”  
L. Capozzoli1,2, V. Giampaolo2, V. Lapenna2, E. Rizzo2  
1 University of Basilicata, Potenza (PZ), Italy  
2 Laboratorio Hydrogeosite, Istituto di Metodologie per le Analisi Ambientali, Consiglio Nazionale delle Ricerche, Tito (PZ)

10:40- 11:00  “Inland water altimetry: perspectives for hydrology ”  
Stefano Vignudelli1, Andrea Scozzari2, Ron Abileah3  
1 National Research Council of Italy (CNR-IBF) Via Moruzzi 1, 56124 Pisa, Italy,  
2 National Research Council of Italy (CNR-ISTI) Via Moruzzi 1, 56124 Pisa, Italy,  
3 jOmegak, San Carlos CA, USA

11:00- 11:20  “Water hyacinth growth rate in Egyptian irrigation and drainage networks ”  
salwa Abou ElElla, Reda Hassan  
Channel Maintenance Research Institute, National Water Research Center, El-Kanater El-Kharia

11:10-11:40  "Environmental characteristics and future challenges of the Egyptian-side of Red Sea: State of the art review"  
Ahmed Eladawy, Abdelazim Negm, Kazuo Nadaoka  
Egypt-Japan University of Science and Technology  
Tokyo Institute of Technology

11:30 – 12:00  Discussion

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Eighteenth International Water Technology Conference IWTC 2015, Sharm El Sheikh, Egypt

Session 14

**HYDRAULICS AND HYDRAULIC STRUCTURES"B"**

Place: Room (B)
Saturday–March 14, 2015 10:00–12:00

**CHAIRPERSONS:**
- Abdelazim Negm E-JUST, Egypt
- Nabil Hassan ZU, Egypt

10:00 – 10:20  
“Effect of Transverse Water velocity distribution on sedimentation at Aswan High Dam Reservoir”  
*Nasr Tawfik Hekal, Tarek Mohamed Abdel Aziz*  
Nile Research Institute, National Water Research Center  
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10:20–10:40  
“Near shore and beach nourishments effects on the stability of rosetta promontory, Egypt”  
*Ali Masria*, Kazuo Nadaoka2,Yoshiaki Kuriyama3,AbdelazimNegm1, MohebIskander4, andOliver C. Saavedra5  
1Department of Environmental Engineering, Egypt-Japan University of Science and Technology E-JUST,  
New Borg El-Arab, Alexandria, Egypt,  
2Department of Mechanical and Environmental Informatics, Graduate School of Information Science and Engineering, Tokyo Institute of Technology, Tokyo, Japan,  
3Director of Coastal and Estuarine Environment Field, andDirector General of Asia-Pacific Center for Coastal Disaster Research (APaC-CDR),  
4Coastal Research Institute, Alexandria, Egypt,  
5Department of Civil Engineering, Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo,  
93

10:40–11:00  
“Effect of the flow Characteristics in pump intake on dynamic and hydraulic Performance”  
*M.A. Halawa1, M. A. Younes2, I.R. Teaima2 and M. A. Hashim2*  
1Assistant professor, Mechanical Power Engineering Department, Faculty of Engineering,  
Al-Azhar University, Egypt.  
2Mechanical and Electrical Research Institute, National Water Research Center, Egypt  
140

11:00–11:20  
“Numerical analysis of flow characteristics in pump sump intake”  
*O M.A. Halawa1, M. A. Younes2, I.R. Teaima2 and M. A. Hashim2*  
1Assistant professor, Mechanical Power Engineering Department, Faculty of Engineering,  
Al-Azhar University, Egypt.  
2Mechanical and Electrical Research Institute, National Water Research Center, Egypt  
141

11:10–11:40  
"Scenarios for groundwater remediation using N15 in Nile Delta "  
*Bakenaz Zidan*  
Tanta University  
134

11:30–12:00  
Discussion
Session 15

REMOTE SENSING AND CLIMATE CHANGE

Place: Room (C)
Saturday– March 14, 2015 10:00- 12:00

CHAIRPERSONS:
- Andrey Kostianoy, Russian Academy of Sciences, Russia
- Safe Elden Metwaly, Desert Research center, Egypt

10:00 – 10:20
“Detecting coastal feature changes in mekonge Delta using multi-temporal landsat and google earth images”
D. Hak1, K. Nadaoka1, A. Collin2
1 Department of Mechanical and Environmental Informatics, Graduate School of Information Science and Engineering, Tokyo Institute of Technology
2 Littoral Geomorphology & Environment, Ecole Pratique des Hautes Etudes

10:20- 10:40
“Lake Maryut monitoring using remote sensing”
Noha Donia
ain shams university

10:40- 11:00
“Assessment of artificial neural network for bathymetry estimation using High resolution satellite imagery in shallow Lakes: case study El Burullus lake”
Hassan Mohamed1, AbdelazimNegm2, Mohamed Zahran3, and Oliver C. Saavedra4
1 PhD Student, Department of Environmental Engineering, Egypt-Japan University of Science and Technology E-JUST, New Borg El-Arab, Alexandria, Egypt,
2 Chairperson of Department of Environmental Engineering, Egypt-Japan University of Science and Technology E- JUST, New Borg El-Arab, Alexandria, Egypt,
3 Chairperson of Surveying Engineering Dept., Faculty of Engineering at Shoubra, Benha University, Egypt,
4 Department of Civil Engineering, Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo.

11:00- 11:20
“An Asian-African platform for integrated water resources management under climate change JPS mega Delta projet”.
SAAVEDRA1, C.YOSHIMURA1, A. NEGM2, M., ATEIA1, K. NADAOKA1, S.KANAEI, V. TRI3, N. PHONG4, L. PHU4, H. AWAD5, Q. TOAN6, O. RAGAB5, SUIF1, D. HAK1, A. EL-ADAWY2, A. MASRIA2,M and EL-TARABILY2
1 Tokyo Institute of Technology, Japan, 2 Egypt-Japan University of Science and Technology, Egypt
3 Can Tho University, Vietnam 4Ho Chi Minh City University of Technology, Vietnam
5Alexandria University, Egypt 6 Southern Institute of Water Resources Research, Vietnam

11:10-11:40
“Variation of evapotranspiration during 2000 to 2010 in Egypt due to Consequences of climate change”
Sherif Tharwat Kamel
Environment and Climate changes Research Institute

11:30 – 12:00 Discussion
Session 16

GROUND WATER FLOW

Place: Room (A)
Saturday–March 14, 2015 12:00-14:00

CHAIRPERSONS:
• Abdel Razik Zidan Mansoura University, Egypt
• Abdelazim Negm E-JUST, Egypt

12:00-12:20 “Mathematical simulation of agriculture drainage water quality and quantity and its effect on El-Nobaria canal.”
S.A.K. HASSANIN Egypt
Dr. in EL-Nasr Drainage Directorate, Ministry of water resources and irrigation, Alexandria, Egypt

12:20-12:40 “Optimal water productivity of crop pattern in central Nile Delta”
Ayat Elmmer, Mosaad Khadr, Bakenaz A. Zeidan
Irrigation and Hydraulic Engineering Department, Faculty of Engineering, Tanta University, Egypt

12:40-13:00 “Assessment of hydrogeochemical processes affecting groundwater quality in the area between Safaga and El-Quseir, Eastern Desert, Egypt”
M.A. Gomaa, A.A. Hamouda & M.E. Abdelfattah
Desert Research Center, Hydrogeochemistry Dept

13:00-13:20 “Groundwater vulnerability to pollution in some huge carbonate aquifers in mediterranean basin”
Stefania Pascale, Francesco Sdao
Basilicata University

13:20-13:40 Discussion
Session 17

WATER RESOURCES PLANNING AND MANAGEMENT "C"

Place:          Room (B)
Saturday– March 14, 2015  12:00-14:00

CHAIRPERSONS:

• Abdellazim Negm E-JUST, Egypt
• Oliver Saavedra TIT, Japan

12:00-12:20  “Nile delta challenges and opportunities, a state of the art review”
Ahmed Eladawy, Abdellazim Negm, Oliver C. Saavedra Valeriano
Egypt-Japan University of Science and Technology

12:20-12:40  “Effects of heterogeneity of hydraulic conductivity on fresh-water and salt-water
interface in the Nile Delta aquifer, Egypt”
Bakenaz A. Zeidan *, Mahmoud Baker **, Hebatalla Elshinnawy ***
* Prof. Water Resources, Faculty of Engineering, Tanta University, Egypt.
** Associate Research Professor at National Water Resources Center, Egypt.
*** Research Assistant at National Water Resources Center, Egypt

12:40-13:00  “Morphological simulation for Human intervention towards the Nile River”
Mohamed El Sayed M. Abdelnaby
Researcher, Nile Research Institute (NRI), National Water Research Center
(NWRC), Cairo

13:00-13:20  “Quantifying the impacts of impounding grand ethiopian renaissance dam
reservoir on Nasser lake active storage”
Elsayed M. Ramadan **, Abdelazim M. Negm* Moustafa El-Sammany*** and
Ahmed H. El-Sayed**,
* Environmental Engineering Dept., Egypt-Japan University for Science and Technology, E-JUST, P.O.Box 179 New Borg Elarab City, Postal Code 21934, Alex., Egypt, (Seconded from Faculty of Engineering, Zagazig University).
** Water and Water Structures Engineering Dept., Faculty of Engineering, Zagazig University (ZU), Postal Code 44519, Zagazig, Egypt
*** Assoc. Professor, Nile Research Institute (NRI), National Water Research Center (NWRC), Ministry of Water Resources and Irrigation (MWRI),

13:20-13:40  “Assessment of temporal and spatial alteration costal lakes- Egypt”
Hala Abayazid
Coastal Research Institute, National Water Research Center

13:40-14:00  Discussion
Session 18
GENERAL HYDRAULICS

Place: Room (C)
Saturday–March 14, 2015 12:00-14:00

CHAIRPERSONS:
- Abdel Razik Zidan Mansoura University, Egypt
- Moustafa Soliman ASCE

12:00-12:20 “Eutrophication control ecosystems”
Ahmed EL-Zayat,
EMG

12:20-12:40 “Environmental Threats of On-Site Sewage Disposal on Groundwater at Minia-Alqamh, Sharkia Governorate, Egypt”
Abdelazim Negm
E-just

12:40-13:00 "Water Resource Management: Dam Collapse and its Impacts on Agric. Production in Kankia, Northern Nigeria" 
Suleiman Iguda Ladan
Department of Basic and Applied Sciences Hassan Usman Katsina Polytechnic Katsina, Katsina State

13:00-13:20 "Assessment of Artificial Neural Network for bathymetry estimation using High Resolution Satellite imagery in Shallow Lakes: Case Study El Burullus Lake"
Hassan Mohamed1, AbdelazimNegm2, Mohamed Zahran3, and Oliver C. Saavedra4
1 PhD Student, Department of Environmental Engineering, Egypt-Japan University of Science and Technology E-JUST, New Borg El-Arab, Alexandria, Egypt,
2 Chairperson of Department of Environmental Engineering, Egypt-Japan University of Science and Technology E-JUST, New Borg El-Arab, Alexandria,
3 Chairperson of Surveying Engineering Dept., Faculty of Engineering at Shoubra, Benha University, Egypt,
4 Department of Civil Engineering, Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo,
Sharm El-Sheikh has become Egypt’s best known visited beach resorts. In fact, in recent years, the Egyptian government has worked hard to spread around the beach vacationers by developing or encouraging the development of many other beach resorts, but Sharm remains the leading tourist spot in the Sinai and there are a number of reasons for this. First of all, it is a year round resort, hot in the summer, but pleasant and warm in the winter, and it has an international airport that attracts both private and many international charter flights. Next, the area between Tiran Island and Ras Mohammed National Park on the tip of the Southern Sinai features some of the world’s most amazing underwater scenery. Here, one finds crystal clear water, rare and beautiful reefs, and an incredible variety of exotic fish amongst the colorful coral. Much of this can be seen simply by snorkeling off the coast, but of course it is well known world-wide for scuba diving, with easy access to some of the Red Sea's most prominent and interesting dive sites. Just to the south of Sharm, on the very tip of the Sinai, is also one of Egypt's oldest and most beautiful, mostly underwater protectorates, Ras Mohamed.

To accommodate divers, Sharm has ever possible amenity, including first rate dive shops, centers and boats. Many of these are operated by Europeans, and they also provide excellent diving training. A few of the oldest include the Camel Dive Center and South Sinai Divers.
However, Sharm el-Sheikh also offers the beauty of the Sinai, with its majestic mountains and valleys, a number of national parks, as well as some well known nearby tourist attractions such as St. Catherine's Monastery. There is more to Sharm, however, than the beaches, sea and landscape. It is a well developed area that almost seems more like a European resort than Egyptian, with refined facilities and amenities, including these days, some more budget oriented accommodations as well as five star hotels equal to most any in the world. And, while one is capable of spending most any budget at their disposal here, for most Europeans, it remains a relatively inexpensive alternative to more costly beach resort alternatives elsewhere.

Add to this the fact that, because of the number of tourists who continually pour into Sharm, there is just about every activity a vacationer could hope to find, and it is no wonder that the resort area is so popular. Name a water sport and it can almost certainly be found here, but there is also every other activity from four wheeling to go cart tracts, from horse riding to championship golf. One may bowl, bungee jump or, believe it or not, even ice skate. Furthermore, there are many activities for children, as well as adults, because Sharm is very much family oriented. Then in the evening, Sharm takes on almost a Las Vegas flavor with, all along the boardwalk between the hotels and the sea, various types and styles of floorshows (animations), bands, both Arabic and Western, and other entertainment. It’s a circus, but it is a charming circus as one walks along the boardwalk, hearing a dozen or more languages from every part of the world. True, Sharm el-Sheikh is often called the "City of Peace", because of the various peace conferences held in the city and attended by world leaders, but it is also a "world resort", popular among and visited by people from all over Europe, because of its affordability, but also by those from much more distant lands, because it is fun.

The Sharm el-Sheikh area consists of three main areas, consisting of the old town Sharm el Maya (Moya) and its bay, a number of other bays, where most of the tourist facilities are located, though in fact some very fine resorts are located elsewhere, and El Hadaba, where there are vacations villas, apartments, condominiums and a few hotels.

Map of the Great Sharm el-Sheikh Resort Region

In the greater resort area of Sharm el-Sheikh, the bays include, from south to north, Sharm el Maya, Na'ama Bay, Garden Bay, Tiger Bay, Sharks Bay, and Nabq Bay. There are all sorts of hotels and resorts along this strip of coastline. Some are resort compounds, similar to those more frequently seen on the Red Sea coast, which attempt to provide every option to vacations in one spot. Others are more open, particularly along Na'ama bay, where the board walk provides access to various hotel facilities making them available to everyone. Of the bays, probably Na'ama Bay, which means "pleasant" in Hebrew, is best known, and this is also where the most hotels are located. These include some of,
but by no means all of the finer hotels, including several Hiltons, several Sonesta hotels, a Marriott, the Movenpick, and the less expensive Ghazala, run by the always hospitable people of South Sinai Travel. Up the coast just a bit, near the airport one finds actually some of the newer, very exclusive hotels, including the Four Seasons, the Hyatt, the Intercontinental, another Hilton, the Sheraton, the Movenpick Golf Hotel, which was host to Egypt's first professional golf tournament, and others such as the Holiday Inn. A number of other hotels are scattered about, including the Ritz Carlton and the Hilton Waterfalls to the south of Na'ama Bay nearer to downtown. There are a number of other very fine hotels that are not part of major chains, as well as more affordable hotels, some private and some chain, such as the Days Inn.

The downtown area of Sharm, or at least the old town, around Sharm el Maya (Moya) is not large, but there are any number of restaurants and nightspots, such as the Hard Rock Cafe, and various well known fast food chains. Here, one finds the local bazaar (suq). This is also where the main port and marina at Sharm are located, though there are several other marinas up the coast from here at Na'ama Bay and Sharks Bay. Here, one finds the fishing and diving boat jetty. There are banks, and other facilities, as well as one of the three hospitals located in the area.

Sharm el-Sheikh is really, in the end, an extravaganza of entertainment in a beach setting backed by the natural wonders and historic enclaves of the Sinai. I suppose that Sharm is not for everyone, though this author has always enjoyed his visits to this part of the Sinai. What it is not, for the most part, is a laid back experience. For that, one would need to head a little further north to somewhere like Dahab or Nuweiba. Let there be no doubt Sharm is a tourist town with little other purposes, but the community has taken pride in making it more than a vacation destination. It is a one of those places where memories are made, that remain pleasant and fondly cherished dreams.
Water Technology Association is a non-governmental Association no.1623 for 2004. It was established by a panel of experts and university professors. On October 2010 the Council announcement of the structure amendment to create the International Association.

The aims of this association are to:

1. highlight the importance of water issue both socially and economically at the local, national and international levels.
2. highlight the importance of preserving water and its resources.
3. support and spread out modern technology concerning water treatment and desalination.
4. organize training courses in the field of water management and treatment.
5. organize scientific meetings which aim to raise the awareness of people concerning the water issue and its dimensions.
6. conduct research studies and projects in the field of preserving the aquatic resources and water management.

The first activity of this association was participating in the organization of the 8th International Conference for Water Technology. The association aims at organizing a number of training courses in the field of protecting aquatic resources against pollution, the technology of water desalination and water treatment. In addition, a number of workshops will be held on the importance of some national issues such as:

- Water and development of isolated areas.
- Crop structure and its role in saving water.
- Water resources management.
- Evaluating the economic value of water.
Registration, Opening Ceremonies, Technical Sessions and Exhibition will all be held at:

**DOMINA CORAL BAY**
**SHARM EL SHEIKH**

- Opening and Closing Ceremonies will be held in the Principal Conference Room
- Technical Sessions and Workshops will be held in Rooms A, B and C

**REGISTRATION AT THE CONFERENCE DESK**

All participants must register upon their arrival at the registration desk located at hotel. The registration desk will be open from Thursday 12 March at 10:00 to 17:00.

Every registered participant will receive the necessary documents: name tags, Abstracts booklet, tickets for lunches, bag and a CD.

**PRESENTATION, COMMUNICATIONS AND DISCUSSION**

There will be three parallel sessions, according to this program. Every session room is equipped with an LCD projector. If you require any specific audio-visual equipment, all authors must contact the technicians’ 30 min. before the session.

The time allocated for each presentation is 15 minutes in addition to 5 minutes discussion. All conducted in English Language.

**INTERNET ACCESS**

- If the author/participant wants to enjoy the WI-FI service at the hotel, it’s free.
AUTHOR’S BRIEFING / AUDIO VISUAL PRACTICE

A single orientation meeting will be held in each session meeting room at 8:00 AM on each day for all technical sessions scheduled during the day.

Authors may practice with and review their presentations in their session rooms at any time when the rooms are not in use for sessions or briefings.

MESSAGECENTER

A bulletin board will be used to post messages received by the conference management staff on behalf of attendees and participants. The bulletin board will be located in the registration area.

Conference Registration Form

Please Check:
Registration Fees + Accommodation $550 USD
On-site registration fees $530 USD

Registration fees for participants cover:

- Conference briefcase and registration kit.
- Opening and closing ceremonies.
- Coffee breaks.
- One dinner per conference days.
- Conference CD and publications.
- Attendance of all conference sessions.
<table>
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<th>#</th>
<th>Session title</th>
<th>Chairman &amp; Co-Chairman</th>
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<tbody>
<tr>
<td>1</td>
<td>GROUNDWATER FLOW AND CONTAMINATION (GW)&quot;A&quot;</td>
<td>Safi Eldin Metwally, Desert Research center, Egypt</td>
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<td></td>
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<td>Jean Francois, CNES, France</td>
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<td>2</td>
<td>Water Treatment Technology (waste water) (WTT)&quot;A&quot;</td>
<td>Sohair I. Abou-Elela National Research Center, Egypt</td>
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<td>Ibrahim Gar Al-Alm Mansoura University, Egypt</td>
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<td>3</td>
<td>WATER QUALITY AND ENVIRONMENT (WQ)&quot;A&quot;</td>
<td>Raja Ben Amar</td>
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<td>Ahmed Tawfik E-JUST, Egypt</td>
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<td>4</td>
<td>Hydraulics And Hydraulic Structures</td>
<td>Nabil Hassan ZU</td>
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<td>Medhat Aziz Nile research institute</td>
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<td>5</td>
<td>Desalination &quot;A&quot;</td>
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<td>6</td>
<td>Agricultural Issues+ IRRIGATION</td>
<td>Badr Mabrouk Zagazig University</td>
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<td>7</td>
<td>GROUNDWATER FLOW AND CONTAMINATION (GW)&quot;B&quot;</td>
<td>Abdel Razik Zidan Mansoura University, Egypt</td>
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<td>Lahcen Benaabidate Fez University, Morocco</td>
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<td>8</td>
<td>Water Resources Planning and Management&quot;A&quot;</td>
<td>Sherine S. Ismail NRI, Ministry of Water Resources and</td>
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<td>WATER RESOURCES PLANNING AND MANAGEMENT &quot;B&quot;</td>
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<td>HYDRAULICS AND HYDRAULIC STRUCTURES &quot;B&quot;</td>
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<td>Andrey Kostianoy Russian Academy of Sciences, Russia Safe Elden Metwaly Desert Research center, Egypt</td>
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<td>18</td>
<td>general Hydraulics</td>
<td>Abdel Razik Zidan Mansoura University, Egypt Moustafa Soliman ASCE</td>
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