



IWTC 2006

Tenth International Egyptian Water Technology Conference 2006

ALEXANDRIA, EGYPT, MARCH 23-25, 2006

Conference Awards

The conference financial awards for the best papers in each topic offered by His Royal Highness PRINCE SULTAN BIN ABUDULAZIZ International Prize for Water are:

TOPIC 1: Hydrology and Water Resources: (2 Papers)

“Application of GIS and Remote Sensing in Irrigation Networks Management”

Sherif M. El-Sayed
Hydraulics Research Institute, Egypt

“Evaluation Applying Biological Methods to Manage Aquatic Weeds”

Tarek El-Samman and Salwa M. Abou El Ella
National Water Research Center, Egypt

TOPIC 2: Hydraulics and Hydraulic Structures: (2 Papers)

“3-D Numerical Simulation of Flow and Clear Water Scour by Interaction between Bridge Piers”

Gamal A. A. Abouzeid, Hassan I. Mohamed, and Shima M. Ali
Assiut University, Egypt

“The Hydraulic Performance of Oriented Spur Dike Implementation in Open Channel”

Karima Attia and Gamal El-Saied
National Water Research Center
Banha University, Egypt

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TOPIC 3: Desalination Technology: (1 Paper)

“Technical and Economic Consideration for Water Desalination by Reverse Osmosis”

Y. Abdelaziz, A. Karameldin, S. Mekhamer, and N. Abdelmonem
Nuclear Research Center
Cairo University, Egypt

TOPIC 4: Water Treatment Technology: (2 Papers)

“Application of a Novel Process for Effluent Quality Improvement in Dubai’s Wastewater Treatment Plant”

Mohamed F. Hamoda and Rashid A. Bin-Fahad
Kuwait University, Kuwait
Gulf Cooperation Council, Saudi Arabia

“Kinetic Study of Cadmium Sorption from Aqueous Solutions by Almond Peel as a Sorbent Material”

H. Benassa
University of Tlemcen, Algeria

Conference Certificates

The best two papers coming after the above-mentioned papers obtain the “Conference Certificate”:

TOPIC 1: Hydrology and Water Resources: (2 Papers)

“Non-Conventional Water Resources Management”

Eman Abdel Ghaffer
National Water Research Center, Egypt

“Improvement of Crop Yield, Soil Moisture Distribution and Water Use Efficiency in Sandy Soils by Clay Application”

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Saleh M. Ismail and Kiyoshi Ozawa

Assiut University, Egypt

Japan International Research Center for Agricultural Science (JIRCAS), Japan

TOPIC 2: Hydraulics and Hydraulic Structures: (2 Papers)

“Hydraulic Model Investigation on Branch 3&4 Syphon under Toshka Spillway Canal”

Yasser Shawky

National Water Research Center, Egypt

“Experimental Study of Backwater Rise Due to Bridge Piers as Flow Obstructions”

Kassem Salah El-Alfy

Mansoura University, Egypt

TOPIC 3: Desalination Technology: (2 Papers)

“Thermoeconomic Analysis of Multi Stage Flash-Thermal Vapor Compression (MSF-TVC) Desalination System”

A. S. Nafey, H. E. S. Fath, and A. A. Mabrouk

Suez Canal University

Alexandria University, Egypt

“Potential of Application of PV System for BWRO Desalination in Gaza”

Mohammed Rabia Ahmed

Palestinian Water Authority, Palestine

TOPIC 4: Water Treatment Technology: (1 Paper)

“Effect of Distribution Nozzles on Trickling Filter Performance”

Kamal T. Ewida, Sameh M. El-Mokadem, Radwan M. Kamal, and Ayman M. Ali

Zagazig University, Egypt

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IWTC 2007

**Eleventh International Egyptian Water Technology Conference
2007**

SHARM EL-SHEIKH, EGYPT, MARCH 15-18, 2007

Conference Awards

TOPIC 1: Hydrology and Water Resources

First Award:

“Wastewater Natural Treatment Using Multi-Criteria Decision Analysis Technique”

Eman Abdel Ghaffar and Aiman El Saadi
National Water Research Center, Egypt

Second and Third Awards:

They have been cancelled because of the absence of the authors

TOPIC 2: Hydraulics and Hydraulic Structures

First Award: (2 Papers)

“Sensitivity and Uncertainty Analysis for River Quality Modeling”

Mona Radwan and Patrick Willems
Nile Research Institute, Egypt
Katholieke Universiteit Leuven, Belgium

**“Recommended Supportive Toll for the Design of the Subsurface Drainage System in
Egypt”**

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Magdy Rashad Nasralla
National Water Research Center, Egypt

Second Award:

“Minimization of Scour Depth Downstream Radial Stilling Basins”

Abdelazim M. Negm
Zagazig University, Egypt

Third Award:

“Evaluation of Capacity Reliability-based and Uncertainty-Based Optimization of Water Distribution Systems”

Berge Djebedjian, Hossam A. A. Abdel-Gawad, Riham Ezzeldin, Ashraf Yaseen, and Magdy Abou Rayan
Mansoura University
Damietta Drinking Water Company, Egypt

TOPIC 3: Desalination Technology

First Award:

“Effect of Surface Temperature on the Fouling of Heat Transfer Surfaces”

Mostafa M. Awad, I. F. Abd El-Wahab and H. E. Gad
Mansoura University, Egypt

Second Award:

“Reverse Osmosis Desalination Plant in Nuweiba City (Case Study)”

Berge Djebedjian, Helmy Gad, Ibrahim Khaled and Magdy Abou Rayan
Mansoura University
Sinai Development Authority, Egypt

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TOPIC 4: Water Treatment Technology

First Award: (2 Papers)

“Rate Determining Steps Study in Cadmium Sorption from Aqueous Solutions by Amond Peel”

Houcine Benaissa
University of Tlemcen, Algeria

“Assessment Removal of Heavy Metals Ions from Wastewater by Cement Kiln Dust (CKD)”

Taha A. Waly, A. M. Dakroury, G. E. Sayed and S. A. El-Salam
Atomic Energy Authority
Banha University, Egypt

Second Award: (2 Papers)

“Growth Inhibition of Bloom-Forming Using Rice Straw in Water Courses (Case Study)”

Salwa M. Abou El Ella, Magdy M. Hosny and Mohamed F. Bakry
National Water Research Center, Egypt

“Future Trends towards Using of Alternative Best Available Techniques (BAT) as a Pre-Design Step of Anaerobic Wastewater Treatment Plants. Applications for Medium Strength Domestic Sewage”

Walid Abdel-Halim, D. Weichgrebe and K.-H. Rosenwinkel
National Research Center, Egypt
Institute for Water Quality and Waste Management, Germany

TOPIC 5: Water Economics

First Award:

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“The Suggested Cropping Patterns for Desert Lands on the Context of Groundwater Limitation”

Aly Abd Al-Rahman Aly
Ministry of Agriculture and Land Reclamation, Egypt

Second Award:

“Effect of Irrigation Frequency and Timing on Tomato Yield, Soil Water Dynamics and Water Use Efficiency under Drip Irrigation”

Saleh M. Ismail, Kiyoshi Ozawa and Nur A. Khondaker
Assiut University, Egypt
Research Center for Agricultural Science (JIRCAS), Japan
Agricultural Research Council, Bangladesh

IWTC 2008

**Twelfth International Egyptian Water Technology Conference
2008**

ALEXANDRIA, EGYPT, MARCH 27-30, 2008

Conference Awards

The conference financial awards for the best papers in each topic offered by His Royal Highness **PRINCE SULTAN BIN ABUDULAZIZ** International Prize for Water are:

TOPIC 1: Hydrology and Water Resources

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First Award: (2 Papers)

“Spatial Representation of the Egyptian Water System for Decision Support System Modeling”

Fayek Farag, Ahmed El-Shafie and Nahla Abu El-Fotouh
National Water Research Center, Egypt

“Groundwater Problems Resulting from Heavy Pumping in North Governorates of Gaza Strip, Palestine (1994-2004)”

Zeyad Abu Heen , Khalil Tubail and Medhat Farouk Abu El-Naeem
Islamic University, Al Azhar University , Palestine

Second Award: (2 Papers)

“Evaluation of Water Management Options for More Food Security in Palestine”

Marwan Haddad, Anan Jayousi and Salam Abu Hantash
An-Najah National University, Palestine

“A Hierarchical Approach for Groundwater Modeling”

Noran A. Emara, Ashraf S. Hussein, Mohamed E. Khalifa and Mohamed S. Abdel-Wahab
Ain Shams University, Egypt

Third Award: (2 Papers)

“Water Quality Management Scenarios in Rosetta River Nile Branch, Egypt”

Hussein A. El Gammal and Hesham S. El Shazely
Central Water Quality Management Unit, Egypt

“Alternative Techniques to Manage Aquatic Weeds in Fresh and Brackish Water in Egypt”



Magdy M. Hosny, Salwa M. Abou El Ella and Mohamed F. Bakry
Channel Maintenance Research Institute, Egypt

TOPIC 2: Hydraulics and Hydraulic Structures

Hydraulics I

First Award:

“Exploring the Versatility of the Implicit Method of Characteristic (MOC) for Transient Simulation of Pipeline Systems”

M. H. Afshar and M. Rohani
Iran University of Science and Technology, Iran

Second Award:

“Effects of Inclined Cutoffs and Soil Foundation Characteristics on Seepage Beneath Hydraulic Structures”

Khalid Fadel Alsenousi and Hasan G. Mohamed
University of Garyounis, Libya

Third Award:

“A Semi-Theoretical Approach for Detection of Possible Cavitation at Drops in Diverging Channels”

Abdel-Reheem A. Ibrahim
Zagazig University, Egypt

Hydraulics II

First Award:



“Optimal Position of Curved Deflector to Minimize Scour Downstream Multi-Vents Regulators”

A. M. Negm, G. M. Abdel-Aal, M. M. Elfiky and Y. A. Mohamed
Zagazig University, Egypt

Second Award:

“A Nonlinear Optimization Model for Estimating of Manning’s Roughness Coefficient”

Maysoon Kh. Askar and K. K. Al-Jumaily
University of Salahaddin, University of Technology, Iraq

Third Award:

“Centrifugal Pump Performance under Stable and Unstable Oil-Water Emulsions Flow”

Mohamed F. Khalil, Sadek Z. Kassab, Ashraf S. Ismail and Ibrahim S. Elazab
Alexandria University, Egypt

TOPIC 3: Desalination Technology

First Award:

“A Novel Super-Cooled Humidification-Dehumidification System Driven by Thermal Vapor Compression Unit (HDDTVC) for Seawater Desalination”

M. S. Saadawy, A. Karameldin and E. R. Negeed
Nuclear Research Center, Egypt

Second Award:

“Optimization of Reverse Osmosis Desalination System using Genetic Algorithm Technique”

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Berge Djebedjian, Helmy Gad, Ibrahim Khaled, and Magdy Abou Rayan
Mansoura University, Sinai Development Authority, Egypt

Third Award:

“Thermophoresis Particle Deposition on Flat Surfaces Due to Fluid Flow in Darcy-Forchheimer Porous Medium”

Rebhi A. Damseh and Kamel Alzboon
Al-Balqa Applied University, Jordan

TOPIC 4: Water Treatment Technology

First Award: (2 Papers)

“Identification of New Low-Cost Sorbent Materials for Cadmium Removal from Aqueous Solutions“

H. Benaissa
University of Tlemcen, Algeria

“Primary Treatment of Municipal Wastewater in High-Rate Anaerobic Filter at Low Temperatures”

Tarek Elmitwalli, Adriaan Mels and Grietje Zeeman
Benha University, Egypt
Wageningen University, The Netherlands

Second Award:

“Removal of Heavy Metals Using Electro-coagulation Technique“

Riyad H. Al Anbari, Jabar Albaidani, Suwad Mahdi Alfatlawi, and Thikra Aissa Al-Hamdani
University of Technology, Babylon University
Directorate of Health, Babylon Governorate, Iraq

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Third Award:

“Sustainable Sewage Treatment and Reuse in Developing Countries”

Walid Abdel-Halim, Dirk Weichgrebe, K.-H. Rosenwinkel, and Johan Verink
Housing and Building National Research Center, Egypt
University of Hannover, UCY-Concepts, Germany

TOPIC 5: Water Economics

First Award:

“Diffusing Limited Aggregation (DLA) Modeling of Solute Transport in Three Main Soil Types in Northeastern Egypt”

Y. A. Hamed, H. Yasuda, M. Persson and R. Berndtsson
Suez Canal University, Egypt
Tottori University, Japan
Lund University, Sweden

Second Award:

“Virtual Water Trade as a Policy Option for the Arab States”

Alaa El-Sadek and Mohamed Hamouda
National Water Research Center, Cairo University, Egypt

Third Award:

“Effect of Water Stress on Soybean Yield and Water Relations”

Samaha A. Ouda, Fouad A. F. Khalil, Mohamed R. K. Ashry and Kamal M. R. Yousef
Soil, Water, and Environment Research Institute, Egypt

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IWTC 2009

Thirteenth International Egyptian Water Technology Conference
2009

HURGHADA, EGYPT, MARCH 12-15, 2009

IMPORTANT NOTICE

The presence of the Authors (at least one for a paper) of the Conference Awards at the Conference Opening Ceremonies is essential to obtain their awards. In case of absence, his award will be cancelled.

Conference Awards

The conference financial awards for the best papers in each topic offered by His Royal Highness **PRINCE SULTAN BIN ABUDULAZIZ** International Prize for Water are:

TOPIC 1: Hydrology and Water Resources

First Award: (2 Papers)

“Remote Sensing for Diagnosing Actual Depletion and Water Use Efficiency”

M. A. Bashir, H. Tanakamaru and A. Tada
Graduate School of Agricultural Science, Kobe University, Japan

“Multi-Criteria Project Evaluation in the Jefara Plain (Libya)”

Khaled A. Rashed
Academy of Graduate Studies, Libya

Second Award:

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“Performance Prediction of a Proposed Photovoltaic Water Pumping System at South Sinai, Egypt Climate Conditions”

Helmy E. Gad
Mansoura University, Egypt

Third Award:

“Optimizing the Water Allocation System at Jordan Valley through Adopting Water Evaluation and Planning System Model (WEAP)”

Iyad Hussein and Radwan Al – Weshah
Consultant in Water and Environment
UNESCO Regional Office in Cairo, Egypt

TOPIC 2: Hydraulics and Hydraulic Structures

First Award:

“Parameter Estimation of Pumping Test data Using Genetic Algorithm”

Hossam Abdel-Aziz Ahmed Abdel-Gawad and Hoda Ali El-Hadi
Sabratalah Faculty of Engineering, Libya
Academy of Graduate Studies, Libya

Second Award: (2 Papers)

“Scour around Bridge Piers Applying Stream Power Approach”

Abdelkawi A. Khalifa, Khaled A. Kheireldin and Abdelhamid H. Eltahan
Ain Shams University, Egypt
International Water Engineering Consultant, Egypt
British University in Cairo, Egypt

“Cost Optimization of Water Distribution Systems Subjected to Water Hammer”

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Berge Djebedjian, Mohamed Safwat Mohamed, Salah El-Sarraf and Magdy Abou Rayan
Mansoura University, Egypt
Gulf of Suez Petroleum Co. Gupco, Egypt

Third Award: (2 Papers)

“Investigating the Impact of Flow Conditions on Metal Contents in Nile Bed Sediments”

Mohsen M. Yousry, Mahmoud T. Heikal, Amal El-Sherbini and Talaat A. Salem
Nile Research Institute, Egypt

“Prediction of Lift and Drag Coefficients on Stationary Capsule in Pipeline”

Mohamed F. Khalil, Sadek Z. Kassab, Ihab G. Adam and Mohamed A. Samaha
Alexandria University, Egypt

TOPIC 3: Desalination Technology

First Award: (Cancelled)

Second Award: (2 Papers)

“Mechanism of Crystallization Fouling during Pool Boiling of Finned Tubes”

M. Esawy, M. R. Malayeri and H. Müller-Steinhagen
University of Stuttgart, Germany
German Aerospace Centre (DLR), Germany

“Safety Aspects and Economic Evaluation of Nuclear-Fuelled Desalination Plants”

A. A. Gadallah and M. M. El-Fawal
National Center for Nuclear Safety and Radiation, Egypt

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“New Concept for Improving Solar Still Performance by Using Vibratory Harmonic Effect: Theoretical Analysis, Part-2”

Khaled M. S. Eldalil
Tanta University, Egypt

TOPIC 4: Water Treatment Technology

First Award:

“Flux and Rejection of Monoethanolamine (MEA) in Wastewater using Membrane Technology”

S. Binyam, H. Mukhtar and L. K. Leong
Universiti Teknologi PETRONAS, Malaysia

Second Award: (Paper was not presented)

Third Award:

“Geostatistical Analyst as a Tool to Predict Nutrients Pollution in Water”

Gehan A. H. Sallam and Mohamed Embaby
Drainage Research Institute (DRI), Egypt
National Water Research Center, Egypt

TOPIC 5: Soil and Agriculture Economics

First Award:

“An Economic Study on Water Allocation to Achieve Food Security in Egypt”

Mohammed Youssuf Sultan, Hammad Hosni Ahmed El Sayed and Enas Moh. Abbas Saleh
Agricultural Economics Research Institute, Egypt

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Second Award: (Paper was not presented)

Third Award: (2 papers)

“The Occurrence Probability and Return Period of Extreme Hydrological Droughts”

Zeyad S. Tarawneh and Jose D. Salas
The Hashemite University, Jordan
Colorado State University, USA

“Application of Remotely Sensed Imagery to Watershed Analysis A Case Study of Lake Karoun, Egypt”

Noha Donia
Ain Shams University, Egypt

TOPIC 6: Water Quality & Water and Health

First Award:

“Water Treatment Plant Optimization by Controlling the Suspended Solids Physicochemical Environment”

Kamal El-Nahhas
Suez Canal Authority, Egypt

Second and Third Awards: (Papers were not presented)

IWTC 2010

Fourteenth International Water Technology Conference
2010

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CAIRO, EGYPT, MARCH 21-23, 2010

First Award:

“Physiological Responses to Water Stress and Nitrogen Management in Wheat (*Triticum Aestivum* L.): Evaluation of Gas Exchange, Water Relations and Water Use Efficiency”

Ejaz Ahmad Waraich and R. Ahmad
University of Agriculture, Pakistan

Second Award:

“Combined Electrocoagulation and Fungal Processes for the Treatment of Olive Mill Wastewater”

F. Hanafi, M. Mountadar and O. Assobhei
Université Chouaib Doukkali, Morocco

"A Waste Load Model Analysis for El Noubariya Canal Drinking Water Abstraction, Egypt"

N. S. Donia and H. A. Farag
Ain Shams University, Egypt
National Water Research Center, Egypt

“Assessment of Cooling Water Chemistry on the Safety of Water Cooled Power Reactors”

Narmine S. Mahmoud, Mohamed M. El-Fawal and Abdel-Raouf A. Gadalla
National Center for Nuclear Safety and Radiation Control, Egypt

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