Istanbul – Turkey

May 7-10, 2012

With Generous Auspices of

His Highness Prince/ Khaled Ben Sultan Ben Abdulaziz

Vice-Minister of Defense,
Chairman, Prince Sultan research center for Environment,
Water and Desert, KSA
&
The official Sponsor of IWTC16
Under the auspices of their excellences

Prof. Dr. Şerif Ali Tekalan
Rector of Fatih University, Turkey

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&

Dr. Shaker abd El_Hamid
Minister of Culture, Egypt

&

Prof. Dr. Ismail Abdel Ghafar Ismail
President of Arab Academy for Science, Technology & Maritime Transport, Egypt
It is my great pleasure to welcome you all to the Sixteenth 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 16th session in an important mark in the history of this organization, it is the first time to be organized outside Egypt. The number of participants has increased presenting 40 countries.

The hosting organization is the remarkable Fatih University. The conference is taking place in Fatih Conference facilities situated in the remarkable and vibrant campus.

In this occasion and on behalf of organizing committee, I would like to extend my deep gratitude to Prof. Dr. Şerif Ali Tekalan Rector of Fatih University and the team of organization in Fatih University headed by Prof. Dr. Cevdet Meric Dean of Engineering faculty, 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 His Royal Highness, Prince Khaled Ben Sultan Ben Abdulaziz; His royal support has assured the continuity of Association activities since 2004 up to now.

Deep gratitude for conference sponsors, the respected ministers for their auspices and support for the organization of this conference.

Prof. Magdy Abou Rayan
President of International Water Technology Association
&
IWTC16 Chairman
It is my great pleasure to welcome you all to the Sixteenth International Water Technology Conference which has become a milestone in dominating water technologies internationally. I hope that this conference will provide valuable contributions and benefits for all relevant people in the field of water.

Fatih University is hosting “Sixteenth International Water Technology Conference” with many contributions from more than 40 different countries. It is also our great honor to host the Sixteenth International Water Technology Conference that is the first time to be organized outside Egypt.

In this occasion, I would like to extend my deep gratitude to Prof. Magdy Abou Rayan, President of International Water Technology Association & IWTC16 Chairman, and IWTA members due to giving the chance to be the first hosting of IWTC organized outside Egypt.

Our beautiful campus is located in Istanbul where is one of the most beautiful places in the world. It has been a cradle for fortunate civilizations and passionately desired by the reminders throughout the history. Istanbul is an intersection point of many cultures and two continents. The Bosphorus, separating the Asia and Europe, is the pearl of Istanbul, which makes it unique in the world. I think that guests, participants, and observers will enjoy and have a chance to discover remarkable Istanbul.

It is also our great honor to host and meet His Highness Prince Khaled Ben Sultan Ben Abdulaziz whose royal support makes the IWTC16 organized in Fatih University.

I would like to thank the respected ministers for their auspices and support and also conference sponsors for the organization of this conference.

Prof. Dr. Serif Ali Tekalan
President of Fatih University
Main Sponsor

Prince Sultan Research Center for Environment, Water and Desert, KSA

Sponsors

Arab Academy for Science, Technology & Maritime Transport

TWF: Turkish Water Foundation

ISKI: Istanbul Water and Sewage Administration

IBB: Istanbul Metropolitan Municipality

CEVKOR: The Foundation for Environmental Protection and Research, Turkey

BIMTAS: Istanbul Metropolitan Planning & Urban Design Center

Beylikduzu Municipality (Local Municipality near Fatih University)
Program Index

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The organizing committees extend to every participant a warm welcome to the Sixteenth International Water Technology Conference IWTC 2012.

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 Istanbul very enjoyable.

Organizing Committees

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

International Water Technology Association (IWTA)  iwta.info

Fatih University, Istanbul, Turkey  www.fatih.edu.tr
Conference Chairperson

Prof. Magdy Abou Rayan

President of International Water Technology Association

Conference Honorary Chairpersons

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Dean of Engineering Faculty, Fatih University, Turkey

Dr. Sami Goren

Head of Environmental Engineering department, Fatih University, Turkey

Conference Co-Chairman

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University of Dammam, KSA

Scientific committee Chairman

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CNR-IGG, Italy

Conference Secretaries General

Prof. Dr. Samy Al-Fellaly

Agriculture Research Center, Egypt.

Dr. Ismail Anil

Fatih University, Turkey
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  CNES, France
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  Suez Canal Authority, Egypt
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  Fez University, Morocco
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- **Sayyed-Hassan Tabatabaei**  
  Shahrekord University, Iran
- **Salvatore Straface**  
  Univ. of Calabria, Italy
- **Stefano Vignudelli**  
  CNR-IBF, Italy
- **Talha Gunullu**  
  Adyaman Univ., Turkey
- **Tamim Younos**  
  The Cabell Brand Center, USA.
- **Thomas Ammerl**  
  Bavarian Research Alliance, Germany
- **Vincenzo Lapenna**  
  CNR-IMAA, Italy
- **Abdul Latif Qureshi**  
  Mehran University of Engineering and Technology, Jamshoro, Pakistan
Conference Administration:

- Dr. Ismail Anil  
  *Fatih University, Turkey*

- Hassan Abd El-Wahab  
  *Administration Affairs, IWTA*

- Asmaa M. Yousef  
  *Technical Affairs, IWTA*

- Amira M. Farag  
  *Administration Affairs, Mansoura University*
Sunday – May 06, 2012
17:00 – 18:30  IWTC Organizing Committee Meeting
18:30 – 19:30  IWTA Board Meeting

Monday – May 07, 2012
08:00 – 17:00  Registration at Fatih University Conference hall
09:00 – 10:30  Opening Ceremonies (Principal conference room, Fatih University)
10:30 – 11:00  Preliminary Session I  “Prof. Zekai Sen”
               The Head of Turkish Water Foundation
11:00 – 11:30  Coffee Break
11:30 – 13:30  Technical sessions 1,2,3,4
13:30 – 14:30  Lunch break
14:30 – 16:30  Technical sessions 5,6,7,8
16:30 – 17:00  Dr. Thomas Ammerl  Bavarian Research Alliance, Germany “European funding programs for research & development in the water sector”

17:00 – 18:00  IWTJ Editorial Board Meeting

Tuesday – May 08, 2012
08:00 – 18:00  Registration at Fatih University
09:00 – 11:00  Technical sessions 9,10,11,12
11:00 – 11:30  Coffee break
11:30 – 13:30  Technical sessions 13,14,15,16
13:00 – 14:30  Lunch break
14:30 – 16:30  Technical sessions 17,18,19,20
16:30 – 17:00  Invited Talk Dr. Tamim Younos  The Cabell Brand Center, USA. “Climate Change”

Wednesday – May 09, 2012
09:00 – 11:00  Technical Sessions 21, 22, 23, 24
11:00 – 11:45  Invited Talk: His Highness Prince Khaled Ben Sultan Ben Abdul-Aziz, Vice minister of Defense, KSA. Addresses for IWTC community
11:45 – 12:15  Coffee break
12:15 – 12:45  Preliminary Session II  “Prof. Zafer Ayvaz “
               Editor of Eurasian Journal of Biosciences and Ecology Scientific Journal (SCI)
12:45 – 13:45  Lunch break
13:45 – 14:45  Technical sessions 25, 26, Workshop “Water Sanctity”
13:45 – 15:30  Poster Session 27
15:30 – 16:00  Closing Ceremonies

Thursday – May 10, 2012
Social day
Sunday- May 06, 2012

17:00 – 18:30  IWTC Organizing Committee Meeting
18:30 – 19:30  IWTA Board Meeting

Monday- May 07, 2012

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Monday- May 07, 2012

17:00 –18:00  IWJT Editorial Board Meeting

Tuesday- May 08, 2012

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Tuesday- May 08, 2012

17:00 –18:00  IWJT Editorial Board Meeting

Wednesday- May 09, 2012

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Wednesday- May 09, 2012

13:45 – 15:30  Poster Session 27
15:30 – 16:00  Closing Ceremonies

Thursday- May 10, 2012

Social day
TECHNICAL SESSIONS

No. of Sessions  27
No. of Papers  140
Session 1

GIS and Remote Sensing Applications (GS) “A” – GIS Session

Place: Room M-225
Monday - May 07, 2012 11:30-13:30

CHAIRPERSONS:

- Andrey Kostianoy, Russian Academy of Sciences, Russia
- Andrea Scozzari, CNR-IGG, Italy
- Jean-Francois Cretaux, CNES, France
- Stefano Vignudelli, CNR-IBF, Italy

11:30 - 12:00
"Studying effective processes in flood outburst with flood using SCS method and geographical information system (GIS), case study of Qal’e Chaay District"
AliReza Jalalzaie¹, Naser Eghball², Azadeh Arabi³
¹Department of Geography・Zahedan IslamicAza University・Zahedan Iran
²Department of Geography・Science and Branch・IslamicAza University・Tehran
³Department of Geography・Islamshahr Branch・Islamic Azad university・Tehran
G35-HW16-GS02

12:00-12:30
"Using a Web Mapping solution for the management of water resources, case study of a watershed in the west of Algeria"
Y. Fekir¹, K. Mederbal¹, M. A. Hamadouche¹ and D. Anteur²
¹Biological System and Geomatic’s Research Laboratory, Mascara University Algeria
²Department of biology, Saida University, G102-HW43-GS14

12:30 - 13:00
"Estimation of the prefecture of Evros vulnerability in flood cases using GIS and fuzzy set Al Gebra"
Maris Fotis, Varsami Georgia and Vassileiou Apostolos Greece
Lab of Mountainous Watersheds and Risk Management, Department of Forestry and Management of the Environment and Natural Resources, Democritus University of Thrace G181-HW80-GS20

13:00 - 13:30 Discussion
Place: Room M-226  
Monday- May 07, 2012  11:30- 13:30

CHAIRPERSONS:

- **Omer Aga**  
  University of Dammam, KSA
- **Sohair Abou Elala**  
  National Research Center, Egypt

11:30 - 11:50  
**“Electrochemical Oxidation of Phenol on Boron-Doped Diamond Anodes in Wastewaters Containing Toxic Inorganic Species”**  
Nuhu D. Mu'azu¹, Muhammad H. Al-Malack² and **Omer Aga¹**  
1 Environmental Engineering Department, University of Dammam  
KSA  
2Civil Engineering Department, King Fahd University of Petroleum and Minerals,  
Dhahran  
KSA  
G65-WT28-IW07

11:50 –12:10  
**“Reactive transport induced by aquifer recharge management using treated wastewaters”**  
**Omer Aga**  
Environmental Engineering Department, University of Dammam  
KSA  
G66-WT29-IW08

12:10 –12:30  
**“Removal of Dyes from Wastewater by Electro coagulation”**  
C.M.Vivek Vardhan¹ and C.M.Bindu Nath²  
1Assistant Professor, Veltech Hightech, Dr.RR, Dr.SR Engineering College, Chennai  
India  
2Functional analyst, Mahindra Satyam Ltd, Bangalore  
India  
G202-WT79-IW29

12:30 - 12:50  
**“Treatment of the domestic waste water by the use of plants in the Arid Zones (Al Gerian northern Sahara)”**  
Mme Bachi Oum Elkheir, Benhadia H, Halis Y, Lahcini A, Belhamra M.  
Scientific and Technical Research Center on the Arid Regions, Biskra  
Algeria  
G91-WT40-IW12

12:50 - 13:10  
**“Cadmium and lead Biosorption by chlorella Vulgaris”**  
Gaber Edris, Yahia Alhamed, Abdulrahim Alzahrani  
Chemical and Materials Engineering Department, Faculty of Engineering, King Abdulaziz University  
KSA  
G11-WT05-IW01

13:10 -13:30  
Discussion
Place: Room M-229
Monday- May 07, 2012 11:30- 13:30

CHAIRPERSONS:

- Abdul Latif Qureshi  
  Mehran University, Jamshoro, Pakistan
- Mustafa Soliman  
  Ein Shams University, Egypt
- Khaled El-Boghdaaty  
  Beirut Arab University, Lebanon

11:30 –11:50  
“Effect of Breakwaters on wave energy dissipation (case study: Ras El- Bar beach, Egypt)”
Zidan, A. R. ¹, Rageh, O. S. ¹, Sarhan, Th. E. ² and Esmail, M.³  
¹Prof., Irrigation & Hydraulics Dept., Fac. of Engrg., EL-Mansoura Univ.
²Associate Prof., Irrigation & Hydraulics Dept., Fac. of Engrg., EL-Mansoura Univ
³Demonstrator., Irrigation & Hydraulics Dept., Fac. of Engrg., EL-Mansoura Univ.

11:50 –12:10  
“Stress evaluation of pumping station building subjected to motor vibration”
Yasser A. El-Hakem  
Associate Professor, Construction Research Institute, National Water Research Center  
G206-HS21-HS08

12:10–12:30  
“Wave interaction with single and twin pontoons”
Zidan,A.R., Rageh,O.S., Sarhan,TH.E., and El-Sharabasy,M.M.  
Irrigation and Hydraulics Dept, Mansoura university, Faculty of Engineering G198-HS18-HS05

12:30 –12:50  
“Improving seismic resistance of hydraulic structures using soil grouting technique”
Ahmed Hashad ¹, Yasser El-Hakem ¹ and Ashraf El-Ashaal ²  
¹Associate Professor, Construction Research Institute, National Water Research Center,  
²Professor, Construction Research Institute, National Water Research Center  
G203-HS20-HS07

12:50 –13:10  
“Effect of corrugated beds shapes on hydraulic jumps Characteristics”
Ibrahim H. Elsebaie  
Assistant Professor, Civil Engineering Department, King Saud University, Riyadh, G111-HS08-HS02

13:10 -13:30  
Discussion
Session 4

CLIMATE CHANGE AND WATER RESOURCES (CC)’A’

Place: Room K-112
Monday- May 07, 2012 11:30- 13:30

CHAIRPERSONS:

- **Tamim Younos**  The Cabell Brand Center, USA.
- **Thomas Ammerl**  Bavarian Research Alliance, Germany
- **Vincenzo Lapenna**  CNR-IMAA, Italy

11:30 –11:50  “Near and far future hydro-thermal tendencies for crop growing in Bulgaria”
**Veska Georgieva**¹, **Milena Moteva**² and **Veska Georgieva**¹  Bulgaria
¹National Institute of Hydrology and Meteorology, BAS
²Institute for Land Reclamation and Agricultural Mechanization
G148- HW65-CC10

11:50 –12:10  “Impact of climate change on water Resources in Morocco: the case of Ouergha watershed”
**S. Boukrim**¹, **N. Sedkaoui**², **A. Lahrach**³, **A. Chaouni**⁴ and **M. Benadelhadi**⁵  Morocco
¹,²,³,⁴,⁵ Geo-Resources & Environment Lab., Sciences & Technology University, Fez
⁴ Natural Resources & Environment Lab., Polydisciplinary University, Taza
G116-HW49-CC05

12:10 - 12:30  “Assessment of Potential Surface Water Storages to Cope up with Climate Change and Variability on Selected Reservoirs in Abbay River Basin: The Case of Tana and Fincha Sub-Basins”
**Hailay Zeray**, **Kassa Taddele** and **Solomon Seyoum**  Germany
Arba Minch University, Hydraulic and Hydropower Engineering Department,
G45-HW21-CC01

**Susan Durden**  USA
Senior Economist, Institute for Water Resources U.S. Army Corps of Engineers (USACE)
G118-HW50-CC06

**Lu LI**¹,², **Long-teng ZHU**¹,², **Yuan-sheng Chen**¹, **Lei JIANG**¹,² and **Ying Wang**¹,²  China
¹Institute of Geographical Sciences and Natural Resources Research, CAS
²Graduate University of Chinese Academy of Sciences
G121-HW53-CC09

13:10 -13:30  Discussion
Session 5

GIS and Remote Sensing Applications (GS) “B” – Lakes and Rivers Session

Place: Room M-225
Monday- May 07, 2012 14:30- 16:30

CHAIRPERSONS:
- Andrey Kostianoy Russian Academy of Sciences, Russia
- Andrea Scozzari CNR-IGG, Italy
- Jean-Francois Cretaux CNES, France
- Stefano Vignudelli CNR-IBF, Italy

14:30 - 14:50
“Hydrolare/hydroweb: A Lake database to monitor in the Near Real Time water level and storage variations from remote sensing data”
J-F. Cretaux\(^1\), W. Jelinski\(^1\), S. Calmant\(^2\), A. Kouraev\(^3\), V. Vuglinski\(^4\), M. Bergé Nguyen, M-C. Gennero, F. Nino\(^2\), R. Abarca Del Rio\(^4\), A. Cazenave\(^1\), P. Maisongrande\(^1\)

1 CNES/LEGOS France
2 IRD/LEGOS, Délégatio Brazil
3 Universite de Toulouse; UPS (OMP-PCA), LEGOS France
4 State Hydrological Institute of Roshydromet Russia
5 DEFAO, Universidad de Concepcion Chile
G95-HW38-GS9

14:50 –15:10
“Lessons learned from comparing gauge levels with Landsat and radar altimetry observations: case-study of Lake Nasser (Egypt)”
Stefano Vignudelli\(^1\), Sohair Saad Zaghloul\(^1\), Andrea Scozzari\(^3\), Ron Abileah\(^4\)
1Consiglio Nazionale delle Ricerche (CNR-IBF), Pisa Italy
2National Water Research Center, Ministry of Water Resources & Irrigation, Egypt
3 Consiglio Nazionale delle Ricerche (CNR-IGG), Pisa Italy
4 jOmegak, San Carlos CA USA
G155-HW67-GS18

15:10 –15:30
“Monitoring Burullus Lake using remote sensing techniques”
Noha Samir Donia\(^1\) and Hanan Farag\(^2\)
1Department of Environmental Engineering Science, Institute of Environmental Engineering Egypt
2Institute of Environment, National Water Research Center, Ministry of Water Resources and Irrigation Egypt
G50-HW23-GS03

15:30 -15:50
“Altimetry of rivers from satellite and modeling improvement in the Amazon basin”
IRD (Institut de Recherche pour le Développement) France
G96-HW39-GS10

15:50 –16:10
“Satellite altimetry of Gorky and Rybinsk water reservoirs on the Volga river”
Yuliya Troitskaya\(^1,2\), Galina Rybushkina\(^1,3\), Galina Balandina\(^1\), Irina Souxtova\(^1\), Andrey Panyutin\(^1\), Ludmila Filina\(^3\), Sergey Lebedev\(^3,5\), Andrey Kostianoy\(^6\) and Dmytro Solovyov\(^7\)
1Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Russia
2Lobachevsky Nizhny Novgorod State University Russia
3Hydrometeorology and Environmental Monitoring Center, Nizhny Novgorod, Russia
4Geophysical Center, Russian Academy of Sciences, Moscow, Russia
5Space Research Institute, Russian Academy of Sciences, Moscow, Russia
6P. P. Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow, Russia
7Marine Hydrophysical Institute, National Academy of Sciences of Ukraine, Sevastopol, Ukraine
G71-HW27-GS04

16:10 -16:30 Discussion
Session 6

GROUNDWATER FLOW AND CONTAMINATION (GW)

Place: Room M-226
Monday- May 07, 2012  14:30- 16:30

CHAIRPERSONS:

- Sayyed-Hassan Tabatabaei  Shahrekord University, Iran
- Salvatore Straface  Univ. of Calabria, Italy

14:30 –14:50  “Ground water modeling of Eshidya phosphate mining area, southern Jordan”
Omar Rimawi¹, Ali El-Naqa², Yasien Al Zubi³, Anwar Jiries⁴ and Ziad S. Abu-Hamatleh⁵*
1University of Jordan  Jordan
2Hashemite University  Jordan
3Al-Balqa’ Applied University  Jordan
4Mu’ta University  Jordan
5Al-Balqa’ Applied University
*On Sabbatical leave at The World Islamic Sciences and Education University (WISE)
G36-HW17-GW03

14:50 –15:10  “Management role in reducing the effect of drought damav and region with emphasis on ground water”
Azade Arbabi Sabzevari¹, and Mitra Bayat²
1Department of Geograhy, Islamshahr Branch伊斯兰Azad university  Iran
2MA of civil engineering
G124-HW54-GW09

15:10 –15:30  “Solute dispersion in natural porous media at different transport velocities and distances”
Carmine Fallico, Francesco Chidichimo, Salvatore Straface
Dept. of Soil Conservation University of Calabria, Arcavacata di Rende (CS)  Italy
G151-HS15-WP06

15:30 –15:50  “Upper Aquifer Complex In Azraq Basin: Saltwater Intrusion And Interface Delineation”
Ali El-Naqa¹, Omar Rimawi²* and Ziad S. Abu-Hamatleh³
1Hashemite University  Jordan
2University of Jordan
3 Al-Balqa’ Applied University
G37-HW18-GW04

“Optimal operation of a two-dimensional aquifer by genetic Al Gorithm”
M.Khadem and M.H.Afshar³
1 Iran University of Science and Technology, Narmak, Tehran  Iran
2 Iran University of Science And Technology, Enviro-Hydroinformatic Center of Excellence, Tehran  Iran
G17-HW07-GW01

15:50- 16:30  “Pollution vulnerability evaluation in some limestone Aquifers on Mediterranean Basin”
F. Sdao¹ , S. Parisi, and A. Sole
Department of Structure, Geotechnics, Engineering Geology, University of Basilicata
3Department of Environmental Engineering and Physics (DIFA), University of Basilicata, 85100 Potenza, Italy.
G159-HW71-GW11
Session 7

INDUSTRIAL WATER TREATMENT (IW)”B”

Place: Room M-229
Monday- May 07, 2012 14:30- 16:30

CHAIRPERSONS:
• Vivek vardhan Veltech Hightech Eng. College, India
• Izzet Ozturk Istanbul Technical Univ., Turkey
• Mehmet Borat Fatih University, Turkey

14:30 –14:50 “Speciation of heavy metals in the surface waters of former tin mining catchment”
Muhammad Aqeel Ashraf1, Mohd. Jamil Maah1 and Ismail Yusoff2
1Department of Chemistry University of Malaya, Kuala Lumpur
2Department of Geology, University of Malaya, Kuala Lumpur
G210-WT83-IW33 Malaysia.

14:50 - 15:10 “Degradation of phenol by the technique of pulsed high voltage discharge in water”
Yasemin Kaplan, Özlem Selçuk Kuşçu
Süleyman Demirel University, Department of Environmental Engineering Turkey
G220-WT87-IW37

15:10 - 15:30 “Current Molecular Biologic Techniques for Anaerobic Ammonium Oxidizing (Anammox) Bacteria”
Ozgun D1, Basak S2, Cinar O3*
1 Department of Bioengineering and Sciences, Kahramanmaras Sutcu Imam University, Kahramanmaraş 46100, Turkey
2 Department of Environmental Engineering, Kahramanmaraş Sutcu Imam University, Kahramanmaraş 46100, Turkey
3 Biological Sciences and Bioengineering Program, International University of Sarajevo, Bosnia and Herzegovina
G221-WT88-IW38

15:30 - 15:50 “Degradation of Atrazine by advanced Oxidation processes”
R. Kidak and S. Dogan
Cyprus International University, Faculty of Engineering, Department of Environmental Engineering Turkey
G152-WT56-IW16

15:50 - 16:30 Discussion
Session 8

ARTIFICIAL RECHARGE AND ACTIVE MANAGEMENT OF AQUIFERS (AR)

Place: Room K-112
Monday- May 07, 2012 14:30- 16:30

CHAIRPERSONS:

- Mohamed Azaroual  BRGM, France
- Ayhan Bozkurt  Vice rector Fatih University, Turkey

14:30 –14:50  “The role of the unsaturated zone in the hydro chemical and hydro dynamical functioning of Karst aquifer: the example of the Tlemcen mountains. North West Al Gebria “
H. Azzaz1, J. M. Puig2, A. Khaled3, A. Hamimed3 and B. S. Bekkoussa1
1 Laboratoire des Sciences et Techniques de l'Eau · Mascara Université · Alegria
2 Laboratoire d’Hydrogéologie · Avignon Université · France
3 Laboratoire de recherche sur les systèmes Biologiques et la Géomantique · Mascara Université · Alegria
G142-HW61-AR02

14:50 –15:10  “Assessment of the risk of conflict around the trans boundary water resources. Cases of the Jordan Basin and the Guarani Aquifer system”
M. R. Menani
Earth Sciences Department, Faculty of Sciences, Batna University · Algeria
G143-HW62-AR03

15:10 - 15:30  “The artificial recharge of the aquifers by considering The groundwater vulnerability to pollution”
M. R. Menani
Earth Sciences Department, Faculty of Sciences, Batna University · Algeria
G145-WP03-WE01

Khaled A. Rashed
Associate Professor, Department of Civil Engineering, Tripoli University, Tripoli · Libya
G87-WT39-GS05

15:50 - 16:30  Discussion
Place: Room M-225
Tuesday- May 08, 2012 09:00- 11:00

CHAIRPERSONS:

- Mohamad Rashad  
  MuCSAT, Egypt
- Sayyed-Hassan Tabatabaei  
  Shahrekord University, Iran
- Khaled El-Baghdadi  
  Beirut University, Lebanon

09:00 –09:30  
“Summulation of soil wetting pattern of subsurface drip irrigation system”
Atta Mohammad Phull¹ and Mohammad Muneer Babar²  
Pakistan
1 Associate Professor, Department of Civil Engineering, Mehran University of Eng and Tech, Jamshoro, Sindh, Pakistan
2 Professor, Institute of water Resources Engg and Management, Mehran University of Engg and Tech, Jamshoro, Sindh, Pakistan
G04-AG01-ID01

09:30–10:00  
“Potentials for improving water and agriculture productivity in Sindh, Pakistan”
Bakhshal Lashari¹ and Masood A Mahesar²  
Pakistan
1 Professor, Institute of water resources engineering and management, Mehran University of Engg and Tech Jamshoro, Sindh Pakistan
2 Chief Executive Research and Development Foundation, Hyderabad
G07-AG02-ID02

10:00–10:30  
“Stratagies to reduce nitrate leaching under furrow irrigation”
A. A. Siyal¹ and A. G. Siyal²  
Pakistan
1 Department of Land and Water Management, Sindh Agriculture University, Tandojam
2 Department of Irrigation and Drainage, Sindh Agriculture University
G40-AG06-ID06

10:30 - 11:00  
“Management of Agricultural Watershed Using GIS in Palestine”
Samah jabari¹, Majed Abu Shakh¹ and Ziad Al-Mimi²  
Palestine
1 Palestine Polytechnic University
2 Birzeit University
G190-AG13-ID13

11:00-11:30  
Discussion
Session 10

GIS and Remote Sensing Applications (GS) “C” – SEAS AND LAND

Place: Room M-226
Tuesday- May 08, 2012 09:00- 11:00

CHAIRPERSONS:

• Andrey Kostianoy  Russian Academy of Sciences, Russia
• Andrea Scozzari  CNR-IGG, Italy
• Jean-Francois Cretaux  CNES, France
• Stefano Vignudelli  CNR-IBF, Italy

09:00 –09:20 “Satellite monitoring of the Nord Stream gas pipeline construction in the Gulf of Finland in 2010-2011”
Nickolay Grishin¹, Andrey Kostianoy²
1 Nord Stream AG, Moscow
2 P.P.Shirshov Institute of Oceanology, Russian Academy of Sciences, Moscow
G99-HW40-GS11

09:20-09:40 “Flood wave propagation model of the Caspian Sea based on satellite altimetry data”
Sergey Lebedev
Geophysical Center, Russian Academy of Sciences, Moscow
G100-HW41-GS12

09:40-10:00 “Satellite monitoring of the sea surface conditions and pollution in the Black Sea coastal zone”
Marina I. Mityagina and Olga Yu. Lavrova
Space Research Institute of Russian Academy of Sciences
G101-HW42-GS13

10:00-10:20 “Estimation of actual evapotranspiration in Gash Delta, Sudan using a satellite-based energy balance model”
Khalid Ali Eltaib Elamin, Haruya Tanakamaru and Akio Tada
Graduate School of Agricultural Science, Kobe University,
G85-HW33-CC03

10:20 - 10:40 “Flood extend mapping in the Rharb Basin (Morocco) using satellites imagery and DEM”
H. Tabyaoui 1, F. El Hammichi 2 and A. Chaouni 3
1-2- 3 Sidi Mohamed Ben Abdellah University, Polydisciplinary Faculty of Taza,
B.P. 1223, Taza
G139-HW60-GS17

10:40 - 11:00 Discussion
Session 11

WATER RESOURCES MANAGEMENT (WR)

Place: Room M-229
Tuesday- May 08, 2012 09:00- 11:00

CHAIRPERSONS:

- **Salvatore Straface**  Univ. of Calabria, Italy
- **Enzo Rizzo**  CNR-IMAA, Italy
- **Nurullah Arslan**  Dean of Graduate School of Fatih, Turkey

09:00 –09:20  
"Groundwater Vulnerability Map for Northeast Missan Governorate, Southern Iraq"
Ayser M. Al Shamma\(^1\), Ala’a M. Atiya\(^1\)and Muqdad H. Al Jabbari\(^3\)  Iraq
1.Prof. Dr. University of Baghdad, Dept. of Earth Sciences
2.Ass.Prof. Dr. University of Basrah, Dept. of Geology
3.Prof. Dr. Univ. of Baghdad, Dept. of Earth Sciences

09:20 –09:40  
"Statistical analysis of evolution rain fall in North east of Algeria"
Mrad Dounia\(^1\) and Djebbar Yassine\(^2\)  Algeria
1 Doctorante chercheur. Laboratoire de recherche gestion, maintenance et réhabilitation des équipements et des infrastructures urbaines, Centre Universitaire Mohammed Chérif Messadia Souk-Ahras
2Maitre de conférence, Centre Universitaire Mohammed Chérif Messadia Souk-Ahras

09:40 –10:00  
"Water Resources Sensitivity in Estako-West and Esan Central, Nigeria”
Olotu Yahaya\(^2\) and Idogho P.O\(^1\)  Nigeria
1The Rector, Auchi Polytechnic, Auchi, Edo state, Nigeria
2Department of Agricultural Engineering, Auchi Polytechnic, Auchi

10:00 –10:20  
"Evaluation of inter- basin water transfer(Case study: Northren Karun basin, Iran)"
H. Samadi-Boroujeni\(^1\) and M. Saeedinia\(^2\)  Iran
1 Scientific member of department of Water Engineering, Shahrekord University
2 Ph.D. Student of department of irrigation & Drainage, Faculty of Water Sciences Engineering, Shahid Chamran University

10:20 –10:40  
"Rooftop Rainwater Harvesting as a Substantial Resource in Major Modern Cities Facing Water Supply Shortages: A Case Study Sana’a City, Yemen”
Taha M. Taher.  Yemen
Sana’a University

10:40 - 11:00  
Discussion
Session 12

GEOTHERMAL WATER

Place: Room K-112
Tuesday- May 08, 2012 09:00- 11:00

CHAIRPERSONS:

- **Elissavet Dotsika**  NCSR Demokritos, Greece
- **Lahcen Benaabidate**  Fez University, Morocco
- **Vincenzo Lapenna**  CNR-IMAA, Italy

09:00 –09:20  “Isotope geochemistry of the samothraki geothermal area, (Greece)”

**Dotsika E.**\(^1,3\), **Poutoukis D.**\(^2\) and **Raco B.**\(^3\)

\(^1\)Stable Isotope Unit, Institute of Material Science, National Center for Scientific Research, "Demokritos"
\(^2\)General Secretariat for Research and Technology,
\(^3\)Institute of Geosciences and Earth Resources

G214-HW83-WQ18

09:20–09:40  “Fluid geochemistry of the Edipsos Geothermal area, Greece”

**Dotsika E.**\(^1,3\), **Raco B.**\(^1\), **Poutoukis D.**\(^2\), **Battaglini R.**\(^4\) and **Papacharalampous Ch.**\(^3\)

\(^1\)Institute of Geosciences and Earth Resources
\(^2\)General Secretariat for Research and Technology
\(^3\)National Center for Scientific Research “Demokritos”
\(^4\)Massa spin-off srl, Largo Guido Novello

G215-HW84-WQ19

09:40–10:00  “Natural tracers for identifying causes of the quality reduction in ground water emerging along the aegean volcanic arc (Greece)”

**Dotsika E.**\(^1,3\), **Lykoudis S.**\(^2\), **Raco B.**\(^3\), **Poutoukis D.**\(^4\) and **Battaglini R.**\(^5\)

\(^1\)Institute of Geosciences and Earth Resources
\(^2\)National Observatory of Athens, I.Metaxa & V. Pavlou
\(^3\)General Secretariat for Research and Technology
\(^4\)Institute of Geosciences and Earth Resources
\(^5\)Massa spin-off srl, Largo Guido Novello

G216-HW85-WQ20

10:00 - 10:20  “Overview of the isotopic and chemical composition of Greek geothermal waters”

**Dotsika E.**\(^1,4\), **Poutoukis D.**\(^2\), **Lykoudis S.**\(^3\), **Raco B.**\(^4\) and **Battaglini R.**\(^3\)

\(^1\)Stable Isotope Unit, Institute of Material Science, National Center for Scientific Research, “Demokritos”
\(^2\)General Secretariat for Research and Technology
\(^3\)National Observatory of Athens, I.Metaxa & V. Pavlou
\(^4\)Institute of Geosciences and Earth Resources, Via G. Moruzzi

G217-HW86-WQ21
10:20 - 11:00 | Discussion

Session 13

WATER MANAGEMENT, CONTROL AND REGULATION (WM)

Place: Room M-225
Tuesday- May 08, 2012 11:30- 13:30

CHAIRPERSONS:

• Abdul Latif Qureshi, Mehran University, Jamshoro, Pakistan
• Thomas Ammerl, Bavarian Research Alliance, Germany
• Fevzi Yilmaz, Fatih Sultan Mehmet University, Turkey

Aicha El Mahi¹ and Mohamed Meddi², Algeria
¹Faculty of Science and Technology-University Mascara, El Mamounia road Mascara
²National School of Hydraulics (ENSH) of Blida
G94-HS06-WM02

11:50 –12:10 | “The suspended sediment in the water shed of Wadi bellah, Algeria”
O. Elahcene¹, A. Terfous¹, B. Remini², A. Ghenaim¹, J. B. Poulet¹
¹INSA of Strasbourg
²University of Blida
G109-HS07-WM03

12:10 –12:30 | “The performance and effectiveness of Geotextiles within permeable pavements for treating concentrated storm water”
Kiran Tota-Maharaj*, Piotr Grabowiecki², Akintunde Babatunde³ and Stephen John Coupe⁴
¹*University of Salford Manchester
²Institute of Geophysics, Polish Academy of Sciences, Warsaw
³Centre for Water Resources Research, School of Arch., University College Dublin
⁴Coventry University
G25-HS03-MS01-O1

12:30 –13:30 | Discussion
Session 14

SANITARY DRAINAGE TREATMENT (ST)

Place: Room M-226
Tuesday- May 08, 2012 11:30- 13:30

CHAIRPERSONS:

- Ibrahim Gar Al Alm  Mansoura University, Egypt
- Mehmet Borat  Fatih University, Turkey
- Hatice Eser Okten  Bahcesehir University, Turkey

11:30 –11:50  “The Use of AN Aerobic Biological Filter for Improving the Effluent Quality of A Two-Stage Anaerobic System”
A. S. El-Gendy¹, T. I. Sabry² and F. A. El-Gohary³
1 Associate Professor, Department of Environmental Engineering, Institute of Environmental Studies and Research, Ain Shams University, Cairo  Egypt
2 Professor, Department of Public Works, Faculty of Engineering, Ain Shams University, Cairo  Egypt
3 Emeritus Prof. Dr. Water Pollution Research Department (WPCD), Environmental Science Division (ESD), National Research Center (NRC)  Egypt
G55-WT20-ST02

11:50-12:10  “Synthesis of a silicate material for Sewage treatment”
Soumia.Benkhatou¹, Mohamed.Sassi², Mohamed.Bouchekara¹, Abdelkader.Bengueddach²
1 LMEA, University of Mascara  Algeria
2 Chemistry laboratory of materials, University of Oran Es-Senia, Algeria
G172-WT66-ST11

12:10-12:30  “Effect of mixing industrial and domestic waste water on settling behaviors in primary settling Tanks”
Atta N.N.¹, El Mokadem S. ², El Monayeri O. D. ³ and EL Gohary E. H. ⁴
1,2 Associate Prof. Dept. of Environmental Engineering, Faculty of Engineering, Zagazig University, Egypt
3,4 Lecture. Dept. of Construction & Building Engineering, Faculty of Engineering, The Arab Academy for Science & Technology & Marine Time Transportation. Egypt
G130-WT52-ST07

12:30-12:50  “Comparison study between inter grated fixed film activated sludge (IFAS), Membrane bioreactor (MBR) and conventional activated sludge (AS) processes”
Abdel_Kader, Amr M.  Egypt
Faculty of Eng., Northern Border University & Faculty of Eng., Alexandria University
G194-WT74-ST12

12:30 –13:30  Discussion
Place: Room M-229
Tuesday- May 08, 2012 11:30- 13:30

CHAIRPERSONS:
• Abd El_Naby Kabeel Tanta University, Egypt
• Kamal El-Nahhas Suez Canal Authority, Egypt
• El-Sayed Abdel Hadi El Shafei Mansoura University, Egypt

11:30 – 11:47 “Experimental study of the effect of mixing chamber length and diffuser angle on dredging jet pump”
Ibrahim R. Teaima¹, M.A. Younes², I.A. El-Sawaf² and M.A. Halawa³ Egypt
¹Mechanical & Electrical Research Institute, National Water Research Center
²Mechanical Power Engineering Department, Faculty of Engineering, Port-Said University, Port-Said, Egypt
³Mechanical Power Engineering Department, Faculty of Engineering, Al-Azhar University

11:47 – 12:04 “A central-type jet pump model for wheat grains removing from water channels”
Ibrahim R. Teaima
Mechanical & Electrical Research Institute, National Water Research Center, Delta Barrage
Egypt

Zeyad H. Abu Heen Palestine

12:21 - 12:38 “Analysis of an active and passive solar water heating system”
Saleem Raza Samo, Asif Ali Siyal, Zafar Ali Siyal and Abdul Rahman Jatoi
Quaid-e-Awam University of Engineering, Science and Technology, Pakistan

12:38 - 12:55 “A hybrid solar desalination system of air humidification dehumidification and water flashing evaporation”
A. E. Kabeel¹ and Emad M. S. El-Said²
¹Faculty of Engineering, Tanta University, Tanta
²Faculty of Science and Engineering Science, University of Chlef
Egypt

12:55 –13:12 “Quantification of suspended sediment in the watershed of Oued El Ardje”
Chenaouii Bakhta
Faculty of Science and Engineering Science, University of Chlef
Algeria

Chenaouii Bakhta
Laboratory Eau -Environnement University of Chlef
Algeria
Session 16

IRRIGATION AND DRAINAGE TECHNOLOGIES (ID)"B"

Place: Room K-112
Tuesday- May 08, 2012  11:30- 13:30

CHAIRPERSONS:
- Mohamad Rashad  MUCSAT, Egypt
- Samy El_Felaly  Agriculture Research Center, Egypt
- Halil Ridvan Oz  Fatih University, Turkey

11:30 –11:50  "Assessment of Institutional Reforms in Irrigation Sector in Pakistan: A way forward"
Fateh Muhammad Mari  Pakistan
Assistant Professor of Agricultural Economics Sindh Agriculture University, Tandojam, G39-AG05-ID05

11:50 –12:10  "Optimization of irrigation water management: A Case study of secondary canal, Sindh, Pakistan”
Abdul Latif Qureshi\(^1\), Khero, Z. I.\(^2\) and Lashari, B. K.\(^3\)  Pakistan
1 Professor, Institute of Water Resources Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, Pakistan
2 Executive Engineer, Irrigation & Power Department, Government of Sindh, 3 Director and Professor, Institute of Water Resources Engineering and Management, Mehran University of Engineering and Technology, Jamshoro, G78-AG08-ID08

12:10 –12:30  "Flow through non-submerged vegetation: a flume experiment with artificial vegetation”
Nehal Laounia\(^1\), Z.M. Yan\(^2\), J.H. Xia\(^2\) and A. Khaldi\(^3\)  Algeria
1 Assistant prof. University of Mascara. Faculty of Sciences and Technology
2Professor.Water Conservancy & Hydropower Engineering College. China
3Professor. University of Mascara, Biological Systems and Geomatics Laboratory G134-AG9-ID10

12:30 - 12:50  "Impact of Agriculture on a Tunisian coastal aquifer and possible approaches for better water management”
F. El Ayni\(^1,2\), S. Cherif\(^2\), E.Manoli\(^2\), D.Assimacopoulos\(^2,4\), A. Jrad1, M. Trabelsi-Ayadi\(^3\)  Tunisia
1Centre International des Technologies de l’Environnement de Tunis (CITET) Boulevard du Leader Yasser Arafat
2Centre National de Recherches en Sciences des Matériaux,
3Laboratoire d’application de la chimie aux ressources et substances naturelles et à l’environnement Faculté des Sciences de Bizerte
4Dionysis Assimacopoulos National Technical University of Athens, Greece School of Chemical Engineering G135-AG10-ID11

12:50 - 13:10  Peanut Biochar as a Stable Adsorbent for Removing NH4-N from Wastewater: A Preliminary Study
Maher E. Saleh\(^1,2\), Amal H. Mahmoud\(^2\), Mohamed Rashad  Egypt
1 Department of Soil and Water Science, Faculty of Agriculture, Alexandria University, Alexandria, Egypt, E-mail: maher.saleh@alex-agr.edu.eg
2 Laboratory of Saline and Alkaline Soil Research, Institute of Soil, Water and Environment Research, Agricultural Research Center, Bacos, Alexandria, Egypt

3 Arid Lands Cultivation Research Institute, City for Scientific Research and Technology Applications, Universities Avenue, Alexandria, Egypt. G213-AG15-ID15

13:10 –13:30  Discussion
Session 17

INDUSTRIAL WATER TREATMENT (IW) “C”

Place: Room M-225
Tuesday- May 08, 2012 14:30- 16:30

CHAIRPERSONS:

- Omer Aga  
  University of Dammam, KSA

- Sami Goren  
  Fatih University, Turkey

14:30 - 14:50

“Removal of heavy metals from waste water by adsorption on polyamidoamine dendrimers immobilized over Titania”
M. A. Barakat¹,², M.H. Ramadan¹,³, M.A. Al-Ghamdi¹, S. S. Al-Garny¹, J.N. Kuhn² and H.L. Woodcock²
¹Department of Environmental Sciences, Faculty of Meteorology and Environment, King Abdulaziz University (KAU), KSA
²Chemical & Biomedical Engineering Department, University of South Florida, Tampa, Fl USA
³Central Metallurgical R & D Institute, Cairo Egypt
⁴High Institute of Public Health, Alexandria Egypt
G70-WT31-IW10

14:50–15:10

“Removal of phenol by carbon nanotubes and activated carbon – a comparative analysis”
Hamza Abbas Hamza¹, Muataz Ali Atieh¹ and Tahar Laoui²
¹Chemical Engineering Department, King Fahd University of Petroleum & Minerals KSA
²Mechanical Engineering Department King Fahd University of Petroleum& Minerals G191-WT71-IW23

15:10 –15:30

“Optimization of biological textile waste water decolourization through response surface methodology”
I. Khouni¹,², B. Marrot³, and R. Ben Amar¹
¹Faculté des Sciences de Sfax, Laboratoire Sciences des Matériaux et Environnemen Tunisia
²Université Paul Cézanne, UMR 6181, M2P2, Département Procédés Propres et Environnement, Europole de l’Arbois, Bat. Laennec G153-WT57-IW17

15:30 –15:50

“Environmental management of pharmaceutical wastes: experience from Egypt”
¹Water Pollution Research Department, National Research Center Egypt
²Housing and Building National Research Center Egypt
³7 Marine Hydrophysical Institute, National Academy of Sciences of Ukraine G160-WT59-IW19

15:50 -16:30 Discussion
Session 18

INSTRUMENTATION AND MEASUREMENT (IM)

Place: Room M-226  
Tuesday- May 08, 2012  14:30- 16:30

CHAIRPERSONS:

- Vincenzo Lapenna  
  CNR-IMAA, Italy
- Francesco Soldovieri  
  CNR-IREA, Italy

14:30 - 14:50

“Far-field and near-field modeling of ground-penetrating radar for digital soil mapping”
Sebastien Lambot  
Belgium

14:50–15:10

“High resolution electromagnetic hydro geophysical Imaging”
Jan van der Kruk¹, A. Klotzsche¹, A. Mester¹, S. Busch¹, G.A. Meles², J. Bikowski¹, and H. Vereecken¹
1 Research Center Jülich  
2 formerly ETH Zürich now at Edinburgh University, UK

15:10 –15:30

“Non-invasive instrumental surveys for irrigation monitoring in agriculture. The case study of a value crop”
A. Satriani¹, A. Loperte¹ and M. Catalano²
1 Institute of Methodologies for Environmental Analysis CNR, Tito (PZ) Italy  
2 Agency for the Agricultural Development and Innovation of Lucania-Basilicata Region Italy

15:30 –15:50

“Ground Penetrating Radar and cooperative target as a tool to estimate water content : numerical and experimental results”
Francesco Soldovieri¹, Giuseppe Cannazza², Andrea Cataldo², Giovanni Leucci³ and Raffaele Persico³  
1 Institute for Electromagnetic Sensing of the Environment, Italy (IREA-CNR)  
2 University of Salento, Italy  
3 Institute for Archaeological and Monumental Heritage, Italy (CNR-IBAM)

15:50 -16:10

“The use of ground penetrating radar with a frequency 1GHz to detect water leaks from pipelines”
Alaa Ezzat Hasan  
Ministry Of Science And Technology Iraq

16:10 -16:30  
Discussion
Session 19

IRRIGATION AND DRAINAGE TECHNOLOGIES (ID)"C"

Place: Room M-229
Tuesday- May 08, 2012 14:30- 16:30

CHAIRPERSONS:

- Mohamed Rashad MUCSAT, Egypt
- Sayyed-Hassan Tabatabaei Shahrekord University, Iran
- Gokce Tezcanlı Guyer Fatih University, Turkey

14:30 - 14:50
“Production And Water Use Of Faba Bean Under Deficit Irrigation Treatments”
S. Ati¹, H. Hameedi², H. M. Karim³
1 professor teaching- Soil and Water Sci. Baghdad Univ. College of Agric.
3 State Board for Agric. Researches, Iraq

14:50–15:10
“Removal of some heavy metal ions from aqueous solutions by Linde-Zeolite:
adsorption and kinetic study”
Mohamed Rashad, M.E. Selim, Faiz F., Assaad
Egypt

15:10 –15:30
“Adjustment proposal of crop production pattern and water allocation in Qira,
Xinjiang, China”
Abdulsattar Muhammadimin, Haruya Tanakamaru, Akio Tada
Graduate School of Agricultural Science, Kobe University
Japan

15:30 –15:50
“Impact of deficit irrigation on leaf area development and net primary productivity
of rapeseed (Brassica napus, L.)”
Milena Moteva¹, Valentin Kazadjiev¹ and Veska Georgieva¹
1 National Institute of Hydrology and Meteorology, BAS
2 Institute for Land Reclamation and Agricultural Mechanization, Bulgaria

15:50-16:30 Discussion
Session 20

WASTEWATER REUSE (WW)

Place: Room K-112
Tuesday- May 08, 2012 14:30- 16:30

CHAIRPERSONS:

- Mohamed Azaroual  BRGM, France
- Goksel Demir  Bahcesehir University, Turkey

14:30 - 14:50  “Biochemical Treatment of Wastewater For Irrigation (IV)”
Ali M Morsi
Chemistry Department, Faculty of Science, Zagazig University  Egypt
G09-WT04-WW02

14:50–15:10  “ Constructed wetlands incorporating surface water heat pumps (SWHPs) for concentrated urban stormwater runoff treatment and reuse”
Kiran Tota-Maharaj1, Piotr Grabowiecki2, Akintunde Babatunde3 and Prasad Devi Tumula4
1University of Salford Manchester, Civil Engineering Research Centre,  UK
2Institute of Geophysics, Polish Academy of Sciences, Warsaw,  Ireland
3Centre for Water Resources Research, School of Arch., Landscape and Civil Engineering, Newstead Building, University College Dublin, Belfield  Dublin
G27-WT11-WW03-O1

15:10 –15:30  “Anaerobic digestion for Amixture of municipal and industrial sludge”
Aboulfotoh A. M4, El Monayeri D. S.1, Atta N. N.2 and El Mokadem S.M3  Egypt
1Prof. 2- Associate Prof. 3 - Assistant Prof. 4- Assistant lecturer
Dept. of Environmental Engineering, Faculty of Engineering, Zagazig University  G51-WT17-WW06-T2

15:30 –15:50  “Improvement of anaerobic digesters using Pre-Selected micro-Organisms”
Aboulfotoh A. M4, El Monayeri D. S.1, Atta N. N.2 and El Mokadem S.M3  Egypt
1Prof. 2- Associate Prof. 3 - Assistant Prof. 4- Assistant lecturer
Dept. of Environmental Engineering, Faculty of Engineering, Zagazig University  G64-WT27-WW8

15:50 -16:30  Discussion
Session 21

WATER QUALITY ASSESSMENT AND PROTECTION (WQ)”A”

Place: Room M-225
Wednesday– May 09, 2012 09:00- 11:00

CHAIRPERSONS:

• Lahcen Benaabidate  Fez University, Morocco
• Kiran Tota-Maharaj  University of Salford Manchester, UK
• Bestamin Ozkaya  Yildiz Technical University, Turkey

09:00–09:20  “Interactive Rheological Modelling of Turbid Water”
Isam Mohammed Abdel-Magid², Sumia Salih Mahmoud⁴, Sarra Ahmed Mohamed Saad³
1 Assistant professor, College of Education, Kasala University
2 Professor of water resources & environmental engineering, Environmental Engineering Department, College of Engineering, Dammam KSA
3Associate professor, Institute of Environmental Studies, National Council for Research.
4Assistant professor, College of Science, University of Khartoum
G76-HW30-WQ04

09:20–09:40  “Water quality and Macroinvertebrates community structure along a Saharan stream: the Saoura Wadi (Algeria)”
ARAB A., Hamzaouid Algeria
Laboratory of Dynamic and biodiversity, Faculty of Biological Sciences, University of the Sciences and the Technology Houari Boumediene
G138-HW59-WQ06

09:40 –10:00  “Hydrology and surface water quality of the inaouen e river watershed, Morocco”
Lahcen Benaabidate ¹, J. Naoura ¹ and A. Dridri²
1 USMBA, FST Fez, Morocco
2 USMBA, FSDM Fez Morocco
G158-HW70-WQ10

10:00 - 10:20  “Microbiological Assessment of Drinking Water Quality in Wad-Medani & Khartoum States”
Amira M. Ell-Amin, Abdel Moneim E. Sulieman and Elamin A. El-Khalifa
Department of Food Science & Technology, Faculty of Engineering University of Gezira Sudan
G32-HW13-WQ02

10:20 - 11:00  Discussion
09:00–09:30  “Spatial and temporal variability of stream flow and solid yields in Semiarid areas; Case of the oued Taria (North west Algeria)”
Hayet Madani Cherif, A. Terfous, A. Bouanani and A. Ghenaim
1 Laboratory of Hydrology and management of the water resources, Department of Hydraulics, Faculty of Architecture and Civil engineering, University of Sciences and the Technology of Oran, Algeria
2 Laboratory (LGECO), INSA Strasbourg, France
3 University Aboubakr Belkaid Tlemcen, Algeria
G15-HW05-WD01

09:30–10:00  “The Hydrological Assessment of Green Roofs within the Greater Manchester Area, UK”
Kiran Tota-Maharaj, Piotr Grabowiecki, Prasad Devi Tumula and Akintunde Babatunde
1 University of Salford Manchester, Civil Engineering Research Centre, UK
2 Institute of Geophysics, Polish Academy of Sciences, Warsaw, Poland
3 University of Cardiff, School of Engineering, UK
G26-HW11-WD02-02

10:00 –10:30  “Evaporation reduction of water plans in arid zones by monomolecular films (Case of Ouargla)”
SAGGAÏ Sofiane and Boutoutaou Djamel
Laboratory of exploitation and valorization of natural resources in arid zones
University of Kasdi Merbah-Ouargla, Algeria
G73-HW28-WD06

10:30 - 11:00 Discussion
Session 23

INDUSTRIAL WATER TREATMENT (IW)"D"

Place: Room M-229
Wednesday– May 09, 2012 09:00- 11:00

CHAIRPERSONS:

• Ibrahim Gar Al Alm Mansoura University, Egypt
• Mustafa Petek Fatih University, Turkey

09:00–09:20 “Simplified Packed Tower Design Calculations for the Removal of VOC's from Contaminated Water”
Mohamed Ali El-Behlil1, El-Gezawi Saed M 1 and Sabri A. Adma2
1 Chemical Engineering department – Tripoli University
2 Process Engineering department Eni Oil Company Tripoli Libya
G196-WT76-IW27

09:20–09:40 “Volatile Organic Chemicals Removal from Contaminated Water using Air Stripping Low Profile Sieve Tray Towers”
Mohamed Ali El-Behlil1, El-Gezawi Sead M.1 and Sabri A. Adma2
1 Chemical Engineering department – Tripoli University
2 Process Engineering Eni Oil Company Libya
G197-WT77-IW28

09:40 –10:00 “Ammoniac and health in middle urbanized industrial. Complex case fertial (plain of Annaba), north east Algeria”
Hannouche Mani 1, Abour Fella 2
1,2 Laboratory of Geology, University Badji Mokhtar, BP 12, Annaba Algeria
G205-WT80-IW30

10:00 - 10:20 “Copper Sorption by Clinoptilolite: Equilibrium and Thermodynamic Investigation”
Mustafa Korkmaz*, Cengiz Özmétil and Elif Özmétil
Balkesir University, Department of Environmental Eng, Turkey
G207-WT81-IW31

10:20 - 10:40 “MAPS – A Multidisciplinary Tool for Life Cycle Management”
Klaus Petersen Mitsubishi electric Business Development Manager Germany
G173-WT67-EF12

10:40 - 11:00 Discussion
Session 24

PURIFICATION PLANTS AND NETWORKS (PP)

Place: Room K-112
Wednesday - May 09, 2012 09:00 - 11:00

CHAIRPERSONS:

- Vivek vardhan  Veltech Hightech Eng. College, India
- Izzet Ozturk  Istanbul Technical Univ., Turkey
- Ahmet Dogan  Yildiz Technical University, Turkey

09:00–09:20  “Recirculation Proses of Water Demineralization Plant to Reduce Conductivity Level of Water”
Kukuh Pambudi, Widi Nurcahyo, K. Adi Dharma, W. Tantrawan
Indonesia Chemistry of Power Generation Association (ICEMPO)  Indonesia
G61-WT25-PP03

09:20–09:40  “Modeling of oxygen transfer in self- Rotating biological contactors (SRBC)”
Sami Daif¹, Diaa S. El Monayerie¹, Nabil N. Atta² and Dalia. S. El Din³.
1Professor. of Environmental Eng. Dept.  Egypt
2Associate Professor of Environmental Eng. Dept.  Egypt
3Lecturer. of Environmental Eng. Dept. Faculty of Engineering, Zagazig University, Zagazig,  Egypt
G83-WT36-PP05

09:40 –10:00  “Influence of the physical- chemical factors on the residuals management for drinking water treatment plants”
Kamal El-Nahhas  Egypt
Ph.D., Water Sector, Suez Canal Authority, Egypt
E-mail: k_elnahhas@yahoo.com
G208-WT80-PP06

10:00 - 10:20  “Enhanced Coagulation using a spiral clari-flocculator”
Mohamed I. Gar Al-Alm Rashed, Ahamed Fadel Ashery and Kamal Radwan
Public Works Department, Faculty of Engineering – Mansoura University
G184-WT72-IW21

10:20 - 11:00  Discussion
Session 25

WATER QUALITY ASSESSMENT AND PROTECTION (WQ)’B’’

Place: Room M-225
Wednesday– May 09, 2012 13:45- 14:45

CHAIRPERSONS:

- Lahcen Benaabidate  Fez University, Morocco
- Kiran Tota-Maharaj  University of Salford Manchester, UK

11:30 -12:00  “Comparison of ANN and ANFIS techniques in modeling dissolved oxygen”
Murat Ay¹ and Ozgur KISI²  Turkey
¹Bozok University, Engineering Faculty, Department of Civil Engineering, Yozgat,
²Erciyes University, Engineering Faculty, Department of Civil Engineering, Kayseri
G165-WT63-WQ11

12:00 - 12:30  “Potential Formation of Bromoform and Bromate in Blended Water Samples Disinfected with Chlorine or Ozone”
Bassam Tawabini  KSA
Earth Sciences Department, King Fahd University of Petroleum and Minerals (KFUPM)
G185-HW81-WQ16

12:30 - 13:00  “Bacteriological quality evaluation of bottled water sold in the Gaza strip, Palestine’
Adnan M. Aish¹, Abdallah Bashir²  Palestine
¹Biology Department, Faculty of Science, Al Azhar University- Gaza,
²Institute of Water and Environment, Geology Department, Faculty of Science, Al Azhar University
G107-HW44-WQ05

13:00- 13:30  Discussion
Session 26

WASTEWATER REUSE
(WW)’’B’’

Place: Room M-226
Wednesday– May 09, 2012 13:45- 14:45

CHAIRPERSONS:

- Ibrahim Gar Al Alm  Mansoura University, Egypt
- Vivek vardhan  Veltech Hightech Eng. College, India

11:30 -12:00 “Influence of some experimental parameters on methylene blue sorption kinetic from synthetique aqueous solutions using thistle stalks as a low- cost sorbent”
H. BENAÏSSA and Z. Senouci Bereksi  Algeria
Laboratory of Sorbent materials and Water Treatment, Department of Chemistry-
Faculty of Sciences, University of Tlemcen
G112-WT47-WW12

12:00 -12:30 “Batch comparative study of sorptive properties of two varieties of almond peels for Bezanyl Red (ACID DYE) from synthetic aqueous solution”
H. BENAÏSSA1 and M. Boumediene1,2  Algeria
1Laboratory of Sorbent materials and Water Treatment, Department of Chemistry-
Faculty of Sciences, University of Tlemcen
2 Department of Hydraulics, Faculty of Technology, University of Tlemcen,
G113-WT48-WW13

12:30 -13:00 Study of the physico- chemical and mycological wastewater of Ain El Hajar city in the wilaya of Saida, Algeria.
TALIA Amel  Algeria
Laboratoire des sciences et techniques de l’eau (LSTE), Mascara university,
Algeria, E-mail : talia_a2003@yahoo.fr
G129-WT51-WW14

13:00- 13:30 Discussion
Wednesday– May 09, 2012 13:45- 15:30

CHAIRPERSONS:
- Omer Aga University of Dammam, KSA
- Sami Goren Fatih University, Turkey
- Abdulrahman Hariri Univ. of Dammam, KSA

“Ressources en eau et transfert des polluants : Cas de la zone industrielle de BERRAHAL (N-E Algérien)”
H. Majour\textsuperscript{1}, N. Loucif\textsuperscript{2}, k. khenchouli\textsuperscript{1} and S. Djorfi\textsuperscript{1}  
\textsuperscript{1}Laboratoire de Géologie. Université de Annaba. 
\textsuperscript{2}Laboratoire de biologie marine. Université de Annaba. 
G16-HW06-WR02

“The oceanic anoxic event during the Cenomanian-Turonian in the Essouabaa region (Tebessa, NE Algeria : stable isotopes and biostratigraphic evidence”
S. SALMI-LAOUAR\textsuperscript{1}, K.CHABANE\textsuperscript{2}, R.LAOUAR\textsuperscript{3} and A.J. BOYCE\textsuperscript{3}  
\textsuperscript{1}Département de Géologie, Université Badji Mokhtar, Annaba 
\textsuperscript{2}Département de Géologie, Université de Batna. 
\textsuperscript{3}Isotope Geosciences Unit, S.U.E.R.C., EastKilbride, Scotland 
G22-HW10-WR05

“Blooms Of Toxic Cyanobacteria In Fresh Water In East-Algeria”
Hichem NASRI\textsuperscript{1,2}, Noureddine BOUAÏCHA\textsuperscript{3} and Amira ABDESSELAM\textsuperscript{3}  
\textsuperscript{1}Laboratory of Biodiversity and pollution of Ecosystems, Institute of Biology, University of El Taref, El Taref, Algeria 
\textsuperscript{2}The National observatory of the Environment and the Sustainable Development,  
\textsuperscript{3}Laboratory of « Ecologie, Systématique et Evolution »,Clement, University of Paris, France. 
G72-WT32-PO01

“Combination of Coagulation/Flocculation and Chemical Oxidation Processes for Treating a Cotton Dyeing Wastewater – Comparison of Performances and Cost Analysis”
Carmen S.D. Rodrigues\textsuperscript{1,2}, Rui A.R. Boaventura\textsuperscript{1} and Luis M. Madeira\textsuperscript{2}  
\textsuperscript{1}LSRE- Laboratório de Processos de Separação e Reacção, Departamento de Engenharia Química, Faculdade de Engenharia da Universidade do Porto Portugal  
\textsuperscript{2}LEPAE – Laboratório de Engenharia de Processos, Ambiente e Energia, Departamento de Engenharia Química, Faculdade de Engenharia da Universidade do Porto (Portugal) 
G86-WT38-WW11-T03

“Development Of Vulnerability Maps For Groundwater Pollution In Morocco: Case Of Saiss Water Table”
N. Sedkaoui\textsuperscript{1}, S. Boukrim\textsuperscript{1}, A. Lahrach\textsuperscript{1}, A. Chaouni\textsuperscript{2}, H. Tabyaoui\textsuperscript{2}, and F. El
“Toxicity Mitigation of TCE towards Toluene Oxidizer Bacterium using PEG Encapsulation”.
S. Hamid $^1$, M.T. Amin $^2$,*, A.A. Alazba $^1$, U. Manzoor $^2$ KSA
1 Researcher, Alamoudi Water Chair, King Saud University
2 Asst. Professor, Alamoudi Water Chair, King Saud University,
3Professor & Supervisor, Alamoudi Water Chair, Agricultural Engineering Dept.,
King Saud University, Kingdom of Saudi Arabia
G122-WT49-JW14

“Silver disinfection of E. coli in stored rainwater of a rooftop rainwater harvesting system for potable purposes”.
M. Nawaz $^1$, M. Y. Han $^2$, U. Manzoor $^3$, A.A. Alazba $^4$, M.T. Amin $^3$ KSA
1 Researcher, Alamoudi Water Chair, King Saud University, KSA
2Professor, Civil and Environmental Engineering Department (#38-206), Seoul National University
3 Asst. Professor, Alamoudi Water Chair, King Saud University, KSA
4 Professor & Supervisor, Alamoudi Water Chair, Agricultural Engineering Dept.,
King Saud University
G128-HW56-WR10

“Statistical Approach Of Sediments In Suspension On The Oued El Hammam Basin”
BENSTAALI Imène$^{1,2}$, BENAYADA Lahouari$^3$ et BOUREGBA Naouel$^{1,2}$ Algeria
1Hydraulic department, Faculty of Science and technology university of Mascara,
2Laboratory of the Sciences and Techniques of the Water, university of Mascara.
3 Civil engineering department, Faculty of Science and technology, university of Oran
G141-HS14-HS04

“Creation Of Dielectric Barrier Discharge For Colored And Wastewater Treatment”
BOUREGBA Naouel$^1$ Benmimoun Youcef $^2$, Meddah Boumediene $^3$ Tilmatine Amar
$^4$, Benaoum Benali $^2$ and Ketrouci Khadidja $^1$
1 Department of Hydraulic, Laboratory of Science and Technology of water,
University of Mascara, Algeria
2 Department of Electrotechnics, Laboratory of Science and Technology of water,
University of Mascara, Algeria
3 Department of Biology, University of Mascara, Street of Mamounia, Algeria
4 Department of Electrotechnics, University of Sidi Bel Abbes, Algeria
G146-WT55-WW15

“Origin of the chemical pollution of the aquifer system of the plain of Ghriss (Northwest Algeria)”
Laouni BENADELA$^1$ and Belkacem BEKKOUSSA$^2$
Laboratory of science and technology of water-Faculty of Science and Technology-University Mascara, El Mamounia road Mascara Algeria
G156-HW68-AR04

“The photooxidative destruction of anionic dye (c.i. Acid blue 25) by uv/s2o82− process”s
Houria Ghodbane$^1$ and Oualid Hamdaoui$^2$ Algeria
1Department of Process Engineering, University Center mohamed cherif messaadia –Souk-ahras, Algeria
“Removing Residuals Of Different Kinds Of Biocides From Wastewater”
M. Sus and T. Mitchenko
National Technical University of Ukraine “Kiev Polytechnic Institute”
Kiev
G188-WT69-JW22

“Sorptive Extraction Of Antiscalants From Reverse Osmosis Waste And Prospects Of Their Reuse”
E. Orestov and T. Mitchenko
National Technical University of Ukraine “Kiev Polytechnic Institute”, Kiev
G189-WT70-EF14

“A contribution to the numerical modeling of dam reservoirs siltation cycles”
Bessenasse M.¹, Paquier A. ² and Moulla A. S. ³
1Saad Dahlab University, Blida
2CEMAGREF, Hydrology & Hydraulics Research Unit– Lyon
3Researcher, Dating & Isotope Tracing Dept.
Algeria

“Palaeo climate and ground water Resources in the Northern Sahara Basin (Isotopic tools)”
Guendouz A.¹, Moulla A.S. ² and Bessenasse M.¹
1Blida University, Engineering Science Faculty
2Algiers Nuclear Research Centre
Algeria

“Assessment of the impact of desalination plants brines discharge on the environment”
M.bessenasse¹, A.guendouz², Moulla. A. S. ³, M. Belkachem Filali
1Lecturer - Researcher – Saad Dahlab University
2Lecturer - Researcher – Saad Dahlab University, Blida
3Researcher, Dating & Isotope Tracing Dept., ANRC
Algeria

“Removal of endocrine disrupters (phthalates) by ozone/activated carbon coupling process”
Tatianne Ferreira de Oliveira¹, Benoît Cagnon², Olivier Chedeville², Henri Fauduet¹
1ICOA, CNRS-University, Rue d’Issoudun,
2 CRMD, CNRS-University, 1B, Rue de la Ferollerie
France

“Ecological (waste-free) technologies for Drip-irrigation products. Recycling and using own reprocess able material”
V.Florov¹, S.Djoumalisky², G.Kotzev²and I.Borovanska²
1 Research Institute for Land Reclamation and Agricultural Mechanization – Agricultural Academy
2Institute of Mechanics – Bulgarian Academy of Sciences
Bulgaria

“Electro-Oxidation Of Total Phenol From Pistachio Processing Industry Wastewaters”
Baybars Ali FİLİ, Serkan BAYARI, Alper Erdem YILMAZI and Recep BONCUKGÜLU
1Ataturk University, Faculty of Engineering, Department of Environmental Engineering, 25240 Erzurum,
Turkey

“Turbidity Removal Of Pistachio Processing Industry Wastewaters By Electrocoagulation Method”
Serkan BAYAR, Alper Erdem YILMAZ, Baybars Ali FİL and Recep BONCUKCUOĞLU
1Atatürk University, Faculty of Engineering, Department of Environmental Engineering, 25240 Erzurum, Turkey
G218-WT85-JW35
“Boron removal from industrial waste waters by using aluminium nitrate coagulant with chemical coagulation method”
Zeynep KARCIOGLU KARAKAŞI*, M. Tolga YILMAZ 1, Recep BONCUKCUOĞLU1
1Atatürk University, Faculty of Engineering, Department of Environmental Engineering, 25240 Erzurum, Turkey
G209-WT82-JW32
“Simulation of River regulation works to improve navigation condition in Damietta branch”
Karima Attia1, Ahmad El Belasy2, Gamal El Saeed3, and Abeer Samy4 Egypt
1 Professor, Deputy Director, Nile Research Institute, National Water Research Center.
2 Associate, Professor Hydraulics Research Institute, National Water Research Center.
3 Associate, Professor, Faculty of Engineering, Shoubra, Banha University.
4 Assistant Lecturer, Faculty of Engineering, Shoubra, Banha University.
G02-HS01-WM01
“Incineration residues valorization in phosphate waste water treatment”
Z. Salem1, F. Salem2, L. Boumehdi1 F. Kharchi2 and K. Allia1
1 FGMGP, LSGPI, University of Sciences and Technology of Houari Boumediene,
2 FGC, LBE, University of Sciences and Technology of Houari Boumediene Algeria
G104-WT44-EF07
“Landfill leachate evaluation and combined treatment process”
Z. Salem, K. Khellif and K. Allia Algeria
FGMGP, LSGPI, University of Sciences and Technology of Houari Boumediene
G161-WT60-EF10
“The removal and degradation of a persistent micropollutant by an advanced oxidation process using an immobilized Titanium Dioxide Catalyst”
Laoufi N. A and F. Bentahar Algeria
Université des Sciences et de la Technologie Houari Boumediene
G170-HW74-WQ13
“The Effect of Initial pH types and supporting electrolyte on Nickel Removal by Electrocoagulation Process”
Alper Erdem YILMAZ, Baybars Ali FİL, Serkan BAYAR, and Recep BONCUKCUOĞLU
Atatürk University Engineering Faculty Environmental Engineering Department
25240, Yakutiyе, Erzurum, Turkey
G211-WT84-JW34
“Dynamic simulation for biological treatment about the Municipal Wastewater Treatment Plant Case of Souk-Ahras/Algeria”.
Dairi S\textsuperscript{1,2}, Mrad D\textsuperscript{1,2} Djebar Y\textsuperscript{1}, Hammar Y\textsuperscript{2}
1Laboratoire de recherche INFRA Res de Souk-Ahras, Algérie ; E: mail daira_sabri@hotmail.fr
2Université Badji Mokhtar d’Annaba, Algérie
G103-WT43-ST06

“Integrated Groundwater Management Using Genetic Algorithm in El-Farafra Oasis, Western Desert, Egypt”

S. Khalaf Allah\textsuperscript{1}, T.A. Saafan\textsuperscript{2}, M.I. Gad\textsuperscript{3} and S.H Moharam\textsuperscript{4}
1 Assistance lecture, Irrigation and Hydraulics Dept., Faculty of Engineering, Mansoura University
2 Prof. Head of Irrigation and Hydraulics Dept., Faculty of Engineering, Mansoura University
3 Prof. Dr., Hydrology Division, Desert Research Center, Cairo,
4 Prof., Irrigation and Hydraulics Dept., Faculty of Engineering, Mansoura University

G204-HW85-GW13
Istanbul is the largest city in the Republic of Turkey. It is located on the shores of the Bosphorus, and is bordered to the north by the Black Sea, to the east by the region of Kocaeli and the Marmara Sea and to the west by Tekirdag and the Kirklareli region. The city covers a total area of 5712 km² including, within the urban district, the islands of the Marmara known as the Princes Islands. It is flanked by a range of high hills to the east of the Bosphorus, the highest of which is Aydos (537m.) near Kartal. Camlica hill (229 m.) east of Uskudar, is a recognized tourist spot. Forests surround the city sporadically, the most extensive being the Belgrad Forest which is 20 square kms, to the north of the city.

Istanbul is the only city in the world that spans over two continents. Europe and Asia. The city embodies mystery, intrigue, and glamour which left most other cities long ago.

The city, whose population is about 12 million, is a major port and trade center. It is the most important city in Turkey, possessing a number of universities, high schools, libraries and cultural centers. The city is an impressive sight, situated, as it is, on a site dominating both the Golden Horn and the Bosphorus, and brimming with fine monuments and artifacts of the Byzantine and Ottoman era.

**Climate**

May usually brings perfect weather throughout Turkey, with long sunny days and not much rain. It also brings tourists: May is the busiest month for individual tourists who like to travel on their own or in small-group tours and stay in boutique hotels.

**History of Istanbul**

**The Republican Period**

Following the defeat of the Ottoman Empire and her allies in World War I, the National War of Independence was waged from 1919 to 1923.

Following the war’s completion, the Turkish Republican State was formed. The first president of the new republic was, of course, Mustafa Kemal Atatürk, the commander-in-chief in the War of Independence. As a result of the modernization process that has characterized Turkey’s Republican history since its beginning, Istanbul has developed an identity as a modern, global city that is unique to itself. From an economic and cultural perspective, Istanbul is the heart of contemporary Turkey. Due to the city’s unparalleled historical heritage, it continues to be a uniquely important city, not only for Turkey, but also in the eyes of the world as a whole.
Before the Byzantine Empire

Excavations conducted at Yarımburgaz cave have uncovered evidence of human culture in the region of Küçükçekmece Lake. Collective inhabitation of Istanbul, which would later become one of the most crowded cities in the world, dates back to the Sixth Millennium B.C.E. These societies inhabited caves on both the European and Anatolian sides of the city. While the first societies to exist in the area of Istanbul were nomadic and semi-nomadic, more culturally-developed groups, whose livelihood relied upon fishing, agriculture, and animal husbandry, emerged over time. Research conducted at Fikirtepe has shown that these societies engaged in fishing and raising such animals as dogs, sheep, goats, oxen, and pigs from the Sixth Millennium B.C.E. onward.

With the arrival of the Third Millennium B.C.E., settlement in Istanbul and the surrounding areas grew rapidly, and city-states began to form. Throughout the area’s entire history, and particularly during this era, the area near Sultanahmet Square—which would later become the seat of three different empires—was an important focus of settlement.

The first societies to reside in and around Istanbul—which is today such an important economic centre in the global arena—were nomadic and semi-nomadic. In the Third Millennium B.C.E., after the establishment of permanent settlements, Sultanahmet Square and the area nearby became an important centre of growth.

The Constantinople Era

The Megarians were the first historical people to settle in the area of present-day Istanbul. In the 680s BCE, they migrated from Greece, passed by the Marmara Sea and founded the city of Chalcedon at the site of the current neighborhood of Kadıköy, on the Asian side. The first inhabitants of Chalcedon were agriculturists, and bear the dubious honour of being known as “The Nation of the Blind”.

In the 660s B.C.E., another group of Megarians founded a city at the present-day location of Sarayburnu. According to legend, these Megarians visited the oracle at the Temple of Delphi before setting out by sea to establish a city. The oracle advised them to settle “directly opposite the Nation of the Blind”.

When they reached the present-day site of Sarayburnu, the Megarian colonists were impressed by its height and by the fact that it was naturally protected on three sides by the sea. After they noticed Chalcedon, directly across the Bosphorus from Sarayburnu, they thought to themselves, “Anyone who could establish a city in view of such a perfect site must indeed be blind!”

The Ottoman Era

Among all cities in the area, Istanbul was a unique prize desired by all major states and empires nearby, both for its beauty and for its strategic important. The Ottoman sultans Yıldırım Bayezid and Murad the Second had surrounded the city in 1393 and 1422, respectively, but neither of them was able to take it.
In the wake of these unsuccessful attempts, Fatih Sultan Mehmed began more thorough preparations to conquer the city in 1452. In addition to building Rumeli Fortress in order to take control of the Bosphorus, he also commissioned the casting of giant cannonballs to be used in the siege. The number of soldiers in the army was increased twofold. While carrying out these rapid preparations for the attack by land, Mehmed also ordered the formation of a powerful fleet of sixteen galleys to be used in a naval attack on the city.

After taking control of all of the routes by which the Byzantines might receive foreign support, the Ottomans made sure that the Genoans, who were in control of the Galata Tower, remained neutral. Following all of these preparations, the Ottoman Army mounted a fearsome attack by both land and sea. The Turks breeched the city from all sides and destroyed all of the Byzantine defenses. Around noon on 29 May 1453, Fatih Sultan Mehmed entered the city through the Topkapı gate and immediately paid a visit to Ayasofya.

Currency Exchange

Turkish banks are usually open Monday through Friday 9:00am to 5:00pm. Some may close for the lunch hour. Banks located in shopping districts have extended weekday hours, and many are open on Saturday morning.

American Dollars and European Euro can be used as pay off currency practically in every shopping center or bazaar, pub or restaurant and even taxi. But, still, in Istanbul remained such places, where only New Turkish lira is the only acceptable currency, for example in public transport or in some supermarkets. Nowadays, the approximate currency exchange rates are: 1 USD = 1.25 TRY, 1 EURO = 2 TRY.

Major credit cards are accepted at almost all hotels, most restaurants, department stores, grocery stores, and big retailers.

Emergency Calls

- Emergency 112
- Police Help 155
- Firefighters 177
- Traffic Center 154
- Gendarme 156
- Coast Guard 158
- Firefighters 110
- Funeral Services 188
- Health Help Desk 184
Vision

Fatih University aims at pioneering in scientific fields by providing education for the needs of practice and theory, devoted to research and development with its activities that take global approach from local point of view.

Mission

- Keeping scientific, ethic and universal values in view of local frame.
- To find scientific solutions to social problems by considering produced knowledge to be sensitive to the human being and environment.
- To train proficient people devoted to their profession.
- Educating individuals having free, critical, productive and innovative thought.
- To fore interdisciplinary works.
- To structure relations with international institutions and establishments by various activities.
- Contribute to the development of the country by strengthening the relations with industry and service sectors by various projects.

General Information:

- Fatih University which was established by Turkey Health and Treatment Foundation, was opened on 18.11.1996

- Fatih University opened department in the fields of physics, biology, geography, industry and environment that require highly expensive infrastructure and set up research and education laboratories rapidly in the related fields by exerting budget capabilities.

- Fatih University pays attention to bringing up scientists by its graduate programs. The research and education programs which are offered to students almost completely with scholarships are good enough to fill the gap in this field in our country.
• Fatih University, which has the highest rate of foreign students among the universities in the country, has international position with the interaction of different cultures.

• Associate Degree and Bachelor’s Degree students are provided with the facilities to apply their knowledge and experiences. Especially the students of applied sciences are directed to the professional application fields and contribute to the university-industry cooperation.

• For students to find jobs in the fields where only few people are employed and respond their expectations of business sectors, students are provided with the facility to select their optional courses out of foreign language, secretariat, computer information, management etc…
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.
Registration, Opening Ceremonies, Technical Sessions and Exhibition will all be held at:

**FATIH UNIVERSITY CONFERENCE AREA**

TEL: (0212) 866 33 00  FAX: 0212-866 33 37

- Opening and Closing Ceremonies will be held in the Principal Conference Room, Fatih University.
- Technical Sessions and Workshops will be held in Rooms M-225, M-226, M229 and K-112

**REGISTRATION AT THE CONFERENCE DESK**

All participants must register upon their arrival at the registration desk located at Fatih University. The registration desk will be open from Monday 7 May at 08:00 to 17:00. and in Marine princess hotel on Sunday 6 May at 17:00. in the main lobby.

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 four 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**

- There will be a computer at the library connecting to the internet; if any author wants to access his mail.
- If the author/participant wants to enjoy the WI-FI service at the hotel, it’s free.
- Also, there is WI-FI service available in Fatih University and the password is in your registration kit.
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.

MESSAGE CENTER

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:
Participants: 380 Euro (425 incl. IWTJ one year subscr.)
IWTA members: 340 Euro (385 incl. IWTJ one year subscr.)

Registration fees for participants cover:

- Conference briefcase and registration kit.
- Opening and closing ceremonies.
- Coffee breaks.
- One dinner or lunch per conference days.
- Conference CD and publications.
- Attendance of all conference sessions.
### Session Chairmen

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