



**The Second International Conference
on Water Resources and Environmental Management
Water, Food, Energy Security and Climate Change
9th-11th April 2013,
CICG- International Center for Conferences, Geneva – Switzerland**

General Program

Tuesday, April 09th

08h30-09h30 – Registration

09h30-10h30 – Opening Ceremony

Opening Remark:

– Dr. Nidal SALIM, Director and Founder GIWEH- Global Institute for Water Environment and Health.

Introduction:

- **Water, Food, Climate and Energy.** Prof. Szöllözi Nagy, Rector of the UNESCO-IHE Institute for Water Education in Delft- The Netherlands
- **Vulnerability of water resources, and food in arid regions (challenges and impact: socio-economic and environment.** Ms. Ann Tutwiler, Special Representative of the Director General to the UN-Geneva and the World Economic Forum, Director FAO Liaison Office.
- Mr. Christian Wichard, Deputy Director General, Global Issues Sector, and World Intellectual Property Organization (WIPO): **“Water related technologies: the role of intellectual property, innovation promotion and technology transfer”**.
- **“World Water Forum/2015”**, His Excellency Mr. Hyo-sung Park, Ambassador and Deputy Permanent Representative at Korean Mission in Geneva.

10h30-11h00 – Coffee break



11h00-12h30 – Session I: “Global Challenges for Water, Food, Energy Security and Climate Change”

- **Keynote Addresses: “Coupled Land Use and Hydrological Modelling for Management of Ecosystem Services”**, Dr. Johannes van der Kwast, UNESCO-IHE, Institute for Water Education, the Netherlands.

Panel discussion:

Mr. Kees Van Der Ree, Coordinator Green Jobs Programme, International Labour Organization (ILO). Green Jobs.


- **“Environmental Impact of Seawater Desalination Plants. Case Study in Algeria”**. Prof. Kamal Mohammedi, LEMI, M Bougara University, Algeria.
- **The water sector in Morocco – status and strategic vision**”, Eng. Mohammad Alaoui, Head of small and medium dams- Directorate of Hydraulic Works, Ministry of Energy, Mines, Water and Environment Morocco.
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- WWF – Water footprint
- **Unsustainable Agricultural Practices – Experience from Wafra Agriculture Area, Kuwait**”, Mr. Mohammad Al-Murad, Kuwait Institute for Scientific Research, Kuwait
- **The water sector in Morocco – status and strategic vision**”, Eng. Mohammad Alaoui, Head of small and medium dams- Directorate of Hydraulic Works, Ministry of Energy, Mines, Water and Environment Morocco.

12h30-14h00 – Lunch

14h00-15h30 – Session II: “Water Nexus Food”

- **Keynote Speaker: Dr. Nidal SALIM, Director GIWEH: “Water Resources in the Arab Region – Challenges and Opportunities”**,

Panel discussion:

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- WWF – Water footprint
 - **Unsustainable Agricultural Practices – Experience from Wafra Agriculture Area, Kuwait**, Mr. Mohammad Al-Murad, Kuwait Institute for Scientific Research, Kuwait
 - **“The water sector in Morocco – status and strategic vision”**, Eng. Mohammad Alaoui, Head of small and medium dams-Directorate of Hydraulic Works, Ministry of Energy, Mines, Water and Environment Morocco.
 - **“An Anthropological Approach to HEPPs in Eastern Anatolia”**, Mr. Pervin Yanikkaya Aydemir, Program at Anthropology Department, Yeditepe University, Istanbul, Turkey.



15h30-16h00 – Coffee break



16h00-18h00 – Session III: “Wastewater Treatment and Reuse Methods and Concerns”

Keynote speech: Prof. Walter Wildi, Professor in geology, University of Geneva, University of Geneva.

Panel discussion:

- **UNESCO-IHE, Delft- The Netherlands**
- **“Application of High Rate Anaerobic Reactor Technology for decentralized wastewater treatment and reuse systems”**, Mr. Nanchoz Zimmermann, Autark Engineering AG, Switzerland.
- **“Using Treated Wastewater as an Adaptation Measure of Water Scarcity and Climate Change in Gaza Strip”**, Dr. Jamal Y. Al-Dadah, Water Authority, Planning Department, Gaza Strip, Palestine.
- **“Synthèse d’un matériaux mesoporeux de type mcm41 et son application dans la depollution des eaux usées textiles”**, Mr. Abdelhafid Barca, Université des sciences et de la technologie d’Oran Mohamed Boudiaf, Algerie.
- **“The Feasibility of Water Hyacinth in Treating Wastewater”**, Ms. Radwa Bakr, Water Research Institute, Egypt.



Wednesday, 10th April 2013

ROOM 1

09-10h30 Session IV: “Water – Energy Nexus and Climate Change”

Keynote Speaker:

Panel discussion:

- **SIG**
- **“The water sector in Morocco – status and strategic vision”**, Eng. Mohammad Alaoui, Head of small and medium dams- Directorate of Hydraulic Works, Ministry of Energy, Mines, Water and Environment Morocco.
- **“An Anthropological Approach to HEPPs in Eastern Anatolia”**, Mr. Pervin Yanikkaya Aydemir, Program at Anthropology Department, Yeditepe University, Istanbul, Turkey.
- **“Managing the River Corridors, Estuarine and Coastal Wetland Areas of Catanduanes Island (Luzon Philippines) Under the Prospectus of Climate Change”**, Dr. Minerva Morales, Catanduanes State University, Philippines.
- **“Gaza Water Resources under Vulnerable Climatic Changes Conditions in the Gaza Strip as Sea Level Rise”**, Dr. Ashraf Majed Mushtaha, Coastal Municipalities Water Utility (CMWU), Gaza Strip, Palestine.
- **“High-order, sensitivity analysis of the Bowen-ration energy budget to enhance the effectiveness of evaporation estimates from Nasser Lake, Egypt”**, Dr. Mohamed Elsaywaf, Water Resources Research Institute, National Water Research Center, Egypt.

10h30-11h00 Coffee Break



11h00-12h30 – Session V (1): “Water Governance and Security”



Keynote Speaker: Mr. Ahmad Aldsabban: “Water Management and Conservation from Islamic Principles”.

Panel discussion:

- “L’eau: un élément fédérateur de la coopération transfrontalière”, Mr. Charles Stadler, Département de l’intérieur, de la mobilité et de l’environnement, Canton de Genève, Switzerland.
- “Land Grabbing/ Water Grabbing in Shared Water Basins: The Emergence of New Actors”, Ms. Emel Zerrouk, Kyoto University, Graduate School of Global Environmental Studies, Japan/UK.
- “Integrated Basin Management”, Mr. Emin Taş, Bayburt University, Faculty of Engineering, Department of Civil Engineering Bayburt, Turkey.
- “Assessment of institutional and asset-related functions in the urban water sector in Libya”, Dr. Khaled Rashed, University of Tripoli, Department of Civil Engineering Tripoli, Libya.
- “The role of Water in shaping the image of rural life in Fadak area-Saudi Arabia”, Dr. Ahmed Alshabban, Department of Geography, Qassim University, Buraydah, Saudi Arabia.
- “The long empty canyon: a study of the old/new legal problems of the Nile Basin”, Prof. Shams El Din El Haggaji, Public Prosecutor, Public Prosecution Bureau-Ministry of Justice, Egypt.

12h30-14h00 – Lunch



14h00-18h00 – Posters' Session (in parallel with Sessions V-VIII)

- **Interactive website with Systems Analysis Environment for Prefeasibility Studies of Small Scale Water and Power Production Units Integrating Renewable Energy**, Mr. Djamel Boudieb, M'hamed Bougara University, Boumerdes, Algeria.
- **Integration of Renewable Energy to Tala-Oulili Desalination Plant in Algeria. Energy and Exergy Performances Analyses**, Mr. Abdelkader Bouzaine, MESO team, LEMI, M Bougara University, Boumerdès, Algeria.
- **Effect of Alpha-cypermethrin on morphological parameters in tomato plants (*Lycopersicon esculentum* Mill.)**, Mr. Karim Chahid, Laboratoire LAMEC, Faculté des sciences Dhar El Mehraz, Fès.
- **Securing the Water Environment from Pollution, "A Study on the Domestic and the International levels"**, Judge Dr. Mohamed Salah Abou Ragab A holder of a Ph.D. entitled "The International Criminal Responsibility of the Heads and Leaders of States.
- **Activation chimique de quelques argiles naturelles en vue de leur valorisation industrielle pour le traitement des eaux de rejets textiles**, Ms. Fatma Larbi, Laboratoire de chimie des polymères, Département de chimie, Faculté des Sciences, Université d'Oran, Algeria.
- **Waste water treatment: preserving our water resources (WWTP of the city of Khenchela/Algeria)**, Mr. Manel Merradi, Institut des Sciences de la Nature et de la Vie, Université Abbés Laghrour, Khenchela, Algeria.
- **Etude de la Contamination par les Eléments Traces Métalliques Plomb (Pb) Et Zinc (Zn) des Sédiments de l'Oued Aissi (Tizi Ouzou, Algérie)**, Ms. Rouibet Boubkeur, Faculté des Sciences Biologiques, Université des Sciences Technologiques Houari Boumediene (U.S.T.H.B), Alger, Algeria.



- **Modeling and Simulation of Reverse Osmosis system with Renewable Energy**, Mr. Belkacem Absar, Département de Génie des Procédés, Faculté des Sciences et de la Technologie, Université de Mostaganem, Algeria.
- **Potential Effects of Climate Change on Irrigation Water Use in Gassim Area of Saudi Arabia**, Dr. Abdullah Almisnid, Qassim University, Department of Geography Qassim, Saudi Arabia Department of Geography Qassim, Saudi Arabia.
- **Legal Regulation on Dam Construction on International Rivers: The compliance of Nile Basin upstream States of the Regulations**, Dr. Mosaed Abd ElAtty Shetewy. PhD in International Law, Egypt.
- **Evaluation des variations climatiques thermiques: cas de Constantine pour la période (1978-2007)**, Ms. Zekri Jihane, Université El Hadj Lekhder Batna, Algeria.
- **Contribution to the Improvement of Seawater Desalination Plants Availability Using Bayes Networks Based Multi-Decision Approach**, Mr. Smaili Youcef, University, Boumerdès, Algeria.
- **Evaluation du Degré de la Pollution Organique des Eaux de Surface : Cas des Barrages Hammam Grouz et Beni Haroun**, Mr. Meriem Melghit, Laboratoire de Biologie et Environnement, Université Mentouri de Constantine, Département de Biologie Végétale et d'Ecologie, Algeria.
- **The Geomorphological Effects of Urbanization of the city of Karak-Jordan**, Prof. Ali Ananzeh, Director, GNRD in Amman, Jordan.
- **"Effect of citric acid dipping solutions on decontamination of shrimps"**, Dr. Abdullatif A. Neamatallah, Environmental Sciences Department, King Abdulaziz University, Saudi Arabia.
- **Account some economic input for the development of the tourism sector with the help system (GIS) in the Regional surrounding of Dhi Qar District, Iraq**, Dr. Jawad Kadhim Abood Al Rofai, Iraq.



14h00-15h45 – Session V (2): “Water Governance and Security”

Moderator: Prof. Ali Ananzi, Director, Global Network for Rights and Development (GNRD) in Amman, Jordan

Panel discussion:

- **“Evaluation de la Qualité Ecologique de l’Oued Rhumel: Approche de type Triade”**, Ms. Leila Sahli, Université Mentouri-Constantine, Laboratoire de Biologie et Environnement, Algeria.
- **“A Modeling Approach Towards Improving Compliance Of Treated Water Quality To Reduce Manpower And Chemicals”**, Assist. Prof. Alaa Husaeen Wadie, University of Babylon, Head of Environmental Engineering Department, Iraq.
- **“Interférences naturelles et anthropogéniques sur les eaux du lac Fetzara, lac appartenant aux écosystèmes humides”**, Ms. Sameh Habes, Université Kasdi Merbah Ouargla, Laboratoire Ressources en Eau & Développement Durable, Algeria.
- **“The impact of seawater desalination plants on the water security of Gaza”**, Mr. Sisalem MoahammedSari, International Development Department, University of East Anglia (UK), Palestine.

15h45-16h00 – Coffee break



16h00-18h00 – Session VI (1): “Contemporary Water Quality Concerns”

Moderator: Prof. Alaa Wadi, University of Babylon, Head of Environmental Engineering Department, Iraq.

Panel discussion:

- **“Bacterial Quantification in Sharjah’s Home Water Storage Tanks”**, Dr. A. Al Amiri, Dr. R. Alkendi, Biology Department, United Arab Emirates University, UAE.
- **“Biological Treatment of textile Effluent and its reuse in Irrigation: Encouraging Water efficiency and Sustainable Development”**, Dr. Senthil Kumar Sadasivam, National College, PG and Research Department of Biotechnology, India.
- **“Effect of fertilizer treatments on soil chemical properties and crop yields in mine affected watershed”**, Mr. Vipul Shinde, Research Scholar, India.
- **“Salinity of drinking water and its association with Renal Failure in Gaza Strip Palestine”**, Dr. Khalid Qahman, Ministry of Environmental Affairs, Palestine.
- **“Etude des caractéristiques hydrodynamiques et hydrochimiques des Lacs d’Oued Righ”**, Ms. Aziez Zeddouri, Laboratoire de BioGéoChimie des milieux désertiques. Université Kasdi-Merbah, Ouargla, Algeria.
- **“Seepage Phenomenon for Wadi Megenin Dam”**, Dr. Salaheddin Shmela, Tripoli University, Civil Engineering Department, Tripoli, Libya.



Wednesday, 10th April 2013

ROOM 2

9h00-11h00 Session VII (1): “New Technologies (Information and Innovation)”

(9h00-9h45) Accessing technological information in the area of water related technologies: the role of patent information and WIPO available technical assistance and tools in this area.

Speaker: Ms. Irene Kitsara, Project Officer, Patent Information Section, Access to Information and Knowledge Division, Global Infrastructure Sector, WIPO.

(9h45-10h00) Q&A from the public.

10h00-11h00 Session VII (2): “Innovation promotion and technology transfer of water R&D results and technologies: the role of intellectual property (IP) and WIPO available tools and capacity in this area building”

(10h00-10h30) Innovation Division, Innovation and Technology Sector, WIPO.

Speaker: Ms. Olga Spasic, Head, Innovation Structures Section, Innovation Division, Innovation and Technology Sector.

(10h30-10h45) WIPO Green, Global Challenges Division, Global Issues Sector, WIPO.

Speaker: Ms. Yesim Baykal, Senior Program Officer, Climate Change and Food Security, Global Challenges Division, Department for Traditional Knowledge and Global Challenges WIPO.

(10h45h-11h00) Q&A from the public.

11h00-11h15 – Coffee Break



11h15-12h30 – Session V (3): “Water Governance and Security”

Moderator: Prof. Abdelkader Larabi, Ecole Mohamadia, Morocco

Panel discussion:

- **“Benefits distribution pattern of a WatSan program”**, Mr. Javaid Ahmed, Aga Khan Planning and Building Service, Pakistan.
- **“Sustainable Development In Iraqi Provinces According To Agenda 21 Indicators”**, Assist. Prof. Salah F. A. Sharif, University of Technology, Building and Construction Department, Iraq.
- **“Environmental Impact of Seawater Desalination Plants. Case Study in Algeria”**. Prof. Kamal Mohammedi, LEMI, M Bougara University, Algeria.
- **“Community-Based Water Management: The Oasis of Figiog, Morrocco Recenet Extensions and Transformations”**, Mrs. Hasnaa El Jamali, Graduate Institute of International and Development Studies, Switzerland.

12h30-14h00 – Lunch



14h00-15h30 – Session VIII: “New Technologies: Modelling and Simulation”

Moderator: Prof. M Bouzelboudjin, University of Neuchatel, Switzerland.

Panel Discussion:

- **“Feasibility Study of AL-Masab AL-Aam Water Drainage in Thi Qar and Treatment for Irrigation”**, Dr. Kadhim Naief Kadhim, College of Engineering, University of Babylon, Iraq.
- **“Calibration of System Input Volume and Non-Revenue Water Index in Edo North, Nigeria”**, Dr. Philipa O. Idogho, Rector, Auchi Polytechnic, Auchi, Edo State, Nigeria.
- **“Coupled Land Use and Hydrological Modelling for Management of Ecosystem Services”**, Dr. Johannes van der Kwast, UNESCO-IHE, Institute for Water Education, the Netherlands.
- **“Contribution des systèmes d’informations Géographiques à la gestion des ressources en eau. Cas du complexe aquifère de la plaine de Mascara (Algérie)”**, Mr Baghdadadi Boukerma, Université des Sciences et de la Technologie d’Oran, Département d’Hydraulique, Algeria.
- **“Groundwater Simulation System Study on Physical and Climatic properties on Kuwait Group Aquifer”**, Dr. Emad Al Ali, Kuwait Institute for Scientific Research, Kuwait.

15h30-16h00 – Coffee Break



16h00-18h00 – Session VI (2): “Contemporary Water Quality Concerns”

Moderator: Prof. John Pote, F.-A, Forel Institute- University of Geneva

Panel Discussion:

- **“Impact des rejets (industriels et urbains) sur la qualité des eaux superficielles: cas de la région de Annaba”**, Prof. Larbi Djabri, Université Badji Mokhtar Annaba, Laboratoire Ressource en eau et développement durable, Algeria.
- **“Impact des eaux d’irrigation sur la salinisation de sols dans la plaine du Bas-Chélif”**, Mr. Abderrahmen Akkacha, Université Hassiba Ben Bouali de Chlef, Algeria.
- **“Aspect hydrogéochimique des eaux souterraines utilisées à l’irrigation des sols dans la plaine Algérienne du Bas-Chélif”**, Ms. Nassira Salhi, Université Hassiba Benboual de Chlef, Laboratoire Eau, Roche et Plante “ISNT”, Algeria.
- **“Scheduling Pumped Hydro Power Storage Systems Under Price and Flow Uncertainty”**, Dr. Ahmet Yucekaya, Department of Industrial Engineering, Kadir Has University, Fatih, Istanbul, Turkey.
- **“Les Bassins Versants de Skikda et l’état Global des Réserves Hydriques”**, Ms. Titi Benrabah, Université Badji Mokhtar, Faculté des sciences de l’ingénieur, Département de Géologie, Laboratoire de Géologie, Annaba, Algeria.

Thursday, 11th April 2013

9h00-10h30 Session XI – Roundtable Discussion.

Closing Session: Geneva statement on Water, food, energy and climate change

10h30-11h00 Coffee Break

11h00-12h30 Session XII: Conclusion and Recommendation



14h00-18h00 – Posters’ Session (in parallel with Sessions V-VIII)

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