

WSTA 9th Gulf Water Conference
Sultanate of Oman, 22-25 March, 2010

Water Sustainability in the GCC Countries
The Need for a Socio-economic and Environmental Definition

CONFERENCE PROGRAM

21 MARCH, 2010, PRE-CONFERENCE WORKSHOP ON WEAP, ACSAD (14:00-18:00 HRS)	
FIRST DAY 22 March, 2010	
08:00-09:00	Registration
09:00-10:00	OPENING CEREMONY
10:00-10:30	Refreshment Break
10:30-12:30	INVITED KEYNOTE SPEAKERS AND SPONSORS Co- Chairpersons: Dr. Ali AL-HARTHI & Dr. Abdulmajeed AL-AWADHI
(15-20 minutes each)	Guest of Honor: Ms. Ana PALACIO, Former Foreign Minister of Spain: FUNDACION VINCENTE FERRER IN ANDHRA PRADESH: WATER MANAGEMENT AS THE AXIS OF AN INTEGRATED DEVELOPMENT PROJECT
	د.نجيب أحمد الجامع، مدير إدارة الكهرباء والماء – الأمانة العامة لمجلس التعاون السياسات والإستراتيجيات المائية والإدارة المتكاملة لموارد المياه بدول مجلس التعاون لدول الخليج العربية
	Malcolm Pirnie, Douglas OWEN: APPROACHES TO THE SUSTAINABLE MANAGEMENT OF WATER RESOURCES
	UN-ESCWA, Dr. Mohammad ALHAMDI: ESCWA Water Resources Program
	UNU-INWEH, Dr. Walid SALEH: LAND AND WATER MANAGEMENT FOR ADAPTATION TO CLIMATE CHANGE IN THE GCC
	Netherlands Gulf Region Water Platform, Dr Ruud J. SCHOTTING: SMART WATER, SMART SOIL? THINKING OUTSIDE THE BOX!
	International Desalination Association, Imad MAKHZOUMI: DESALINATION INDUSTRY OVERVIEW
12:30-12:45	Refreshment Break
12:45-14:30	SESSION 1: WATER RESOURCES MANAGEMENT Co- Chairpersons: Dr. Saif AL-SHAQSI & Dr. AbdulAziz AL-TURBAK
12:45-13:00	WSTA, Waleed AL-ZUBARI: SUSTAINABLE WATER RESOURCES MANAGEMENT IN THE GCC
13:00-13:15	APPLICATION OF WEAP IN WATER RESOURCES MANAGEMENT, Jihad ElMahamid, ACSAD
13:15-13:30	A GIS WATER RESOURCES AND WATER BUDGET SYSTEM FOR AN INTEGRATED MANAGEMENT OF WATER RESOURCES IN UAE, Al Mulla, M., A. Debebe, M., M. Sherif, A.M. Ebraheem, M. Saadullah and M. Qaiser, UAE
13:30-13:45	AN INTEGRATED ASSESSMENT, PROGNOSSES, PLANNING AND MANAGEMENT TOOL (APPM) FOR A MOST EFFICIENT AND SUSTAINABLE ARID ZONE WATER MANAGEMENT, Schmitz, G.H., Al Hattaly, S., Grundmann, J., Schuetze, N., Germany.
13:45-14:00	DEVELOPMENT OF AN INFORMATION AND SIMULATION SYSTEM FOR INTEGRATED WATER RESOURCES MANAGEMENT IN THE COASTAL AREA OF SHANDONG, CHINA, Monnikhoff L., Kaden S, Germany.
14:00-14:15	USE OF MULTI-CRITERIA ANALYSIS TO PRIORITISE WATER MANAGEMENT PROGRAMS IN THE SYDNEY BASIN, AUSTRALIA, Dr. Tony Church, Australia.
14:15-14:30	Discussion
14:30-15:30	Lunch
15:30-17:30	SESSION 2, CONT., WATER RESOURCES MANAGEMENT Co- Chairpersons: Eng. Hamed AL-HATMI & Eng. Mohammad AL-ASAM
15:30-15:45	PARTICIPATORY WATER RESOURCES MANAGEMENT, Fatima Attia, Egypt
15:45-16:00	JORDAN EXPERIENCE IN WATERSHED MANAGEMENT (QAIRWAN SPRING AT JARRASH GOVERNORATE CASE STUDY), Ahemd Ali Uleimat, Jordan.
16:00-16:15	WATER SECTOR FINANCING IN THE GCC: OPTIONS AND POSSIBILITIES, Ghiyath F. Nakshbendi, USA.
16:15-16:30	الندوة المائية الحرجة في محافظة ديالى: جمهورية العراق. محمد يوسف حاجم وباسم مجيد حميد، العراق.
16:30-16:45	دور المرأة في ترشيد استهلاك المياه المنزلية، صباح محمد عبد الله العرفج ووليد محمد خليفة فرج الله، المملكة العربية السعودية.
16:45-17:00	INTEGRATED WATER RESOURCES MANAGEMENT (IWRM) STAKEHOLDER ANALYSIS (ABYAN GOVERNORATE), Yemen, Adel Alhababy, Yemen.
17:00-17:15	النهج التشاركي لإدارة وتخطيط المياه، فهمي علي سعيد الذبحاني، اليمن

17:15-17:30	REGIONAL WATER MANAGEMENT IN SOUTHERN CALIFORNIA: LESSONS FOR SUSTAINABILITY , Edward G. Means III, Andree Hunt, Mohsen Mortada, George De La O and Russ Bryden, USA	
17:30-17:45	SAN DIEGO COUNTY WATER AUTHORITY'S WATER SUPPLY DIVERSIFICATION , Halla Razak, USA	
17:45-18:00	<i>Discussion</i>	
SECOND DAY 23 March, 2010		
08:00-09:30	SESSION 3: GROUNDWATER RESOURCES MANAGEMENT Co- Chairpersons: Eng. Sulaiman AL-OBAIDANI & Dr. Ahmad KHATER	SESSION 4: MUNICIPAL WATER MANAGEMENT Co- Chairpersons: Eng. Zahir AL-SULAIMANI & Eng. Mohammed QAMBER
08:00-08:15	GROUNDWATER MANAGEMENT IN THE ARABIAN PENINSULA, RENEWABLE VS. NON-RENEWABLE , Yousuf Al-Mooji, Yemen	DRINKING WATER SECURITY AND SAFETY FOR HUMAN HEALTH IN THE FACE OF CLIMATE , Hamid Bakir, CEHA/WHO
08:15-08:30	SUSTAINABLE MANAGEMENT OF THE SALALAH COASTAL AQUIFER IN OMAN BY USING AN INTEGRATED APPROACH , Mahaad Issa Shamma, Oman.	INVESTMENT IN WATER INFRASTRUCTURE IN THE SULTANATE OF OMAN (2001-2010) , Zaher bin Khalid Al Sulaimani and Tariq Helmi Aboul Atta, Oman.
09:30-08:45	ASSESSMENT OF THE IMPACTS OF GROUNDWATER CONSUMPTION ON THE SUSTAINABLE GROUNDWATER MANAGEMENT , Ayser M. Al-Shamma'a and Ali A. Al-Azzawi, Iraq.	SAVING ENERGY AND WATER BY IMPLEMENTING INTELLIGENT WATER NETWORKS , R. Hoeijmakers, the Netherlands
08:45-09:00	COMMUNITY GROUNDWATER MANAGEMENT: CASE STUDY SHIBAM , Hadramout Pilot Area, Taha M Taher, Yemen.	CHLORINATION DESIGN AND OPERATION IN DRINKING WATER NETWORKS: MULTI-OBJECTIVE OPTIMIZATION WITH GENETIC ALGORITHMS , Issam NOURI and Féthi LEBDI, Tunisia.
09:00-09:15	THE IMPORTANCE OF GEOHYDROLOGIC INFORMATION (ONSHORE AND OFFSHORE) FOR SUSTAINABLE WATER MANAGEMENT, INCLUDING INTEGRATED WATER MANAGEMENT SOLUTIONS , G. Janssen, The Netherlands	الاستراتيجيات البديلة للإدارة المستدامة لقطاع المياه البلدية في دولة الكويت, حامد عباس عيدان ووليد خليل الزبيري
09:15-09:30	<i>Discussion</i>	<i>Discussion</i>
09:30-09:45	Refreshment Break	
09:45-11:15	SESSION 5: GROUNDWATER RESOURCES MANAGEMENT Co- Chairpersons: Dr. Mohammad ABDULRAZZAK & Eng. Said AL-HATTALI	SESSION 6: DESALINATION MANAGEMENT Co- Chairpersons: Dr. Nadir AL-BASTAKI & Dr. Khawla AL-SHAEJY
09:45-10:00	MANAGEMENT OF SHARED AQUIFER SYSTEMS , Ahmad Khater, Egypt	التأكل في الوسط البخاري بمحطات التحلية العاملة بالتقطير الوميضي المتعدد المراحل، أحمد العريفي، إبراهيم المعتاز، ماهر العودان وفرج عبدالعليم، المملكة العربية السعودية.
10:00-10:15	RECENT ADVANCES IN UNDERSTANDING THE HYDROGEOLOGY OF THE UMM ER RADHUMA AQUIFER IN THE INTERIOR OF OMAN , William Morgan-Jones, Oman.	SIGNIFICANT IMPROVEMENTS IN NF SEAWATER PRETREATMENT UP TO 90% RECOVERY WITH 50% REDUCTION IN OPERATIONAL COST , A. Z. Abdullatef, A. M. Farooque, G. F. Al-Otaibi, N. M. Kither and S.I. Al Khames, Saudi Arabia.
10:15-10:30	SPATIALLY DISTRIBUTED DELINEATION OF GROUNDWATER RECHARGE AREAS IN ARID REGIONS , Edda Kalbus, Jan Friesen, Sascha Oswald, Irina Engelhardt, Andreas Kallioras, Christoph Schueth, Randolf Rausch, Georg Teutsch, Germany.	PLANKTON BLOOMS AFFECT DESALINATION PROCESSES IN AL JUBAIL SWCC PLANTS , Troy N. Green, Mohammed Mehmoodurrahman, Ibrahim Al-Tisan and Mohammad Al-Nomazi, Saudi Arabia.
10:30-10:45	HYDROGEOCHEMICAL AND ISOTOPE SIGNATURES OF GROUNDWATER IN THE NAJD AQUIFERS, SULTANATE OF OMAN , K. Al-Mashaikhi, G. Strauch, S. Oswald, S. Attinger, K. Knöller,	MEMBRANE AUTOPSY OFFERS SOLUTION TO PROBLEMS FACED BY RO DESALINATION PLANTS , A. Mohammed Farooque, Saudi Arabia.

	Germany/Oman.	
10:45-11:00	USING OILFIELD TECHNOLOGY IN THE WATER INDUSTRY TO IMPROVE INTEGRATED AQUIFER CHARACTERIZATION , Rolf Herrmann, UAE.	BIOFOULING IN DESALINATION EQUIPMENT OF SWCC PLANTS , Mohamed O Saeed, Ibrahim I Al-Tisan, Ghazzai F Al-Otaibi, Ahmed S Al-Amoudi, Fahd A Al-Muaili and P.K. Abdul Azis, Saudi Arabia.
11:00-11:15	<i>Discussion</i>	<i>Discussion</i>
11:15-11:30	Refreshment Break	
11:30-13:00	SESSION 7: GROUNDWATER RESOURCES MANAGEMENT Co- Chairpersons: Dr. Mohammad AL-RASHID & Dr. Osman ABDALLA	SESSION 8: DESALINATION MANAGEMENT Co- Chairpersons: Eng. Ali Redha HUSSAIN & Abdulateef AL-MOGRIN
11:30-11:45	NUMERICAL SIMULATION OF GROUNDWATER FLOW FOR THE NORTHERN BATINAH AREA, OMAN , Medhat El-Bihery, A. Al-Mushikhi, Salim Al-khanbashi, Ahmed Al Saeedi and Ali Al Lawatia, Oman.	MEMBRANES FOULING IN MICROFILTRATION SUBMERGED MEMBRANE SYSTEM , Ahmad Al-Sairafi and Sameer Bou-Hamad, Kuwait.
11:45-12:00	HYDROGEOLOGICAL CONDITIONS AND NUMERICAL MODEL FOR TUZKHURMATU AREA, IRAQ , Samaher A. Lazim and Dhia Yaqub Bashoo, Iraq.	ECONOMIC EVALUATION OF MICROFILTRATION SUBMERGED MEMBRANES , Sameer Bou-Hamad and Noura Abdulmalek, Kuwait.
12:00-12:15	SALINITY EVOLUTION PATTERNS IN A LAYERED COASTAL AQUIFER SUBJECT TO SHALLOW ABSTRACTION , Ali Al-Maktoumi, D. A. Lockington and R. E. Volker, Oman.	THE IMPACT OF THE COGENERATION POWER AND DESALTING PLANTS (CPDP) ON THE ENVIRONMENT IN KUWAIT , M. A. Darwish, Fatimah M. Al Awadhi, and Anwar O. Bin Amer, Kuwait.
12:15-12:30	A 2D earth resistivity imaging survey for saltwater intrusion delineation in the coastal aquifer of east UAE , Ebraheem, A., A. S. Al Matari, A. Shetty, S. Akram and M. Al Mulla, UAE	دراسة تأثير الكلور على الكائنات الحية الدقيقة المسببة للأمراض في المياه، محمد الزياتي، أسامة أحمد الزقني، محمد الأمين عبدالجواد، ليبيا
12:30-12:45	SALINITY PROBLEM OF GROUNDWATER AT THE WADI GHURĀN BASIN, WESTERN SAUDI ARABIA , Masoud Eid Al-Ahmadi, Saudi Arabia.	THE WATER-ENERGY NEXUS , Mr. S. Robb Norit, The Netherlands
12:45-13:00	<i>Discussion</i>	<i>Discussion</i>
13:00-14:00	Lunch	
14:00-15:30	SESSION 9: GROUNDWATER RESOURCES MANAGEMENT Co- Chairpersons: Dr. Mubarak AL-NOAIMI & Eng. Nasser AL-BATTASHI	SESSION 10: WASTEWATER MANAGEMENT Co- Chairpersons: Dr. Saleh AL-MOGRIN & Dr. Fatima ATTIA
14:00-14:15	POLLUTION RISKS FACING THE WATER RESOURCES OF TULKARM CITY AND THE DEVELOPMENT OF PROTECTION POLICIES , Amjad Aliewi, Najwan Imseih, Khaled Rajab, Nihad Sheikheh, Assad Sawalmeh, Palestine	BIOTECHNOLOGIES FOR WASTEWATER MANAGEMENT IN ARID REGIONS, POTENTIAL AND CHALLENGES , Ali Almahruki, Oman
14:15-14:30	POLLUTION OF GROUNDWATER, SOIL AND COASTAL WATER BY FERTILIZERS INDUSTRY IN KUWAIT , M. Al-Senafy, A. Fadlemawla, A. Al-Khalid, A. Al-Haddad, K. Al-Fahad and H. Bhandary, Kuwait.	QUALITY ASSESSMENT AND POSSIBILITY OF REUSE OF THE TREATED WASTEWATER EFFLUENT IN KUWAIT , Saud. B. Al-Shammari, A. M. Shahalam and A. Abusam, Kuwait.
14:30-14:45	QANAT AND AB-ANBAR SYSTEMS FOR WATER MANAGEMENT IN ARID AND SEMI ARID LANDS , A. R. Nejadmohamad Namghi and Z. Gholizade, Iran.	MUNICIPAL WASTEWATER MANAGEMENT IN THE KINGDOM OF BAHRAIN: A COMPARATIVE STUDY BETWEEN CENTRALIZED AND DECENTRALIZED SYSTEMS , Ali AlAswad, Bahrain.
14:45-15:00	حماية المياه الجوفية في سلطنة عمان، صالح بن سعيد بن محمد الشوكري، سلطنة عمان	DISPOSAL AND REUSE OF TREATED WASTEWATER IN KHARTOUM: PAST, PRESENT AND THE FUTURE , Tarig El Gamri, Sudan.
15:00-15:15	ASSESSMENT OF SUBMARINE GROUNDWATER DISCHARGE	MICROBIOLOGICAL WATER QUALITY OF PORTS AND MARINAS ALONG

	IMPLICATION ON KUWAIT BAY, A. Fadlemawla, F. Al-Yamani, K., Al-Rifaie, F. Marzouk, and Bahndary, Kuwait	KUWAIT COASTLINE, F.M. Malallah & M.A. Al-Sarawi, Kuwait.
15:15-15:30	<i>Discussion</i>	<i>Discussion</i>
15:30-15:45	Refreshment Break	
15:45-17:15	SESSION 11: SURFACE WATER MANAGEMENT Co-Chairpersons: Dr. Aisha AL-QURASHI & Dr. Yousif AL-MOOJJI	SESSION 12: WASTEWATER MANAGEMENT Co-Chairpersons: Dr. Ahmad SALIH & Dr. Ali AL-MAHRUKI
15:45-16:00	RAINFALL FIELDS IN THE INTERIOR DESERT REGIONS OF THE ARABIAN PENINSULA, Jan Friesen, Anke Hildebrandt, Edda Kalbus, Sabine Attinger, Germany.	إعادة تدوير المياه الرمادية في صناديق الطرد في المستشفيات والمراكز الصحية، د. صالح بن محمد المقرن، المملكة العربية السعودية.
16:00-16:15	FLOOD INUNDATION MAPPING FOR A LOW LYING AREA OF MABAR TOWN IN YEMEN, Abdulnoor A.Jazim Ghanim and Venkatesh Merwade, Yemen.	WATER QUALITY OF THE EVAPORATION LAKES AND THE POTENTIAL OF ITS REUSE IN AGRICULTURE ACTIVITIES, Al Hassa area, KSA, A.S. El Mahmoudi, K, M Al-Barrak, Y.Y. Al-Dakheel, M.A. Massoud and A.H.A. Hussein, Saudi Arabia.
16:15-16:30	خدمة Earth Google الالكترونية ومدى إمكانية الاستفادة منها في حصاد المياه "حوض صنعاء حالة دراسية"، أمين علي قحطان، اليمن.	DECENTRALISED SEWAGE TREATMENT PLANTS (UBOX-MBR): NEW TECHNOLOGIES FOR DECENTRALISED WASTEWATER TREATMENT SYSTEMS AND WASTEWATER REUSE, R. Hoeijmakers, The Netherlands
16:30-16:45	FOG WATER COLLECTION EVALUATION IN ASIR REGION-SAUDI ARABIA, Ghassan Al-Hasan, Saudi Arabia.	ENERGY NEUTRAL SEWAGE TREATMENT PLANTS, R. HOEIJMAKERS, R. Hoeijmakers, The Netherlands
16:45-17:00	ASSESSMENT OF STREAM FLOW RESPONSE TO CLIMATE VARIABILITY IN SEVERAL SUB-BASINS OF THE SEBOU WATERSHED, MOROCCO, Rachid Bouabid, Ali Chafai Elalaoui and Othmane Hafid, Morocco.	WASTE WATER STERILIZATION BY COBALT CO – 60 TO BE USED IN THE AGRICULTURAL IRRIGATION: A CASE STUDY, S.M. Sabbagh, A.S. El Mahmoudi and Y.Y. Al-Dakheel, Saudi Arabia.
17:00-17:15	<i>Discussion</i>	<i>Discussion</i>
THIRD DAY 24 March, 2010		
08:00-09:45	SESSION 13: SURFACE WATER MANAGEMENT Co- Chairpersons: Dr. Alaa AL-SADEK & Eng. Ahmed AL-BARWANI	SESSION 14, TITLE: WASTEWATER TREATMENT Co- Chairpersons: Dr. Fatima AL-AWADHI & Dr. Hamid BAKIR
08:00-08:15	MANAGEMENT OF SURFACE WATER IN ARID REGIONS, Ali Sorman, Turkey	WASTEWATER NUTRIENTS REMOVAL FOR EUTROPHICATION CONTROL, Ahmed ElZayat, Egypt.
08:15-08:30	RAINFALL-RUNOFF MODELLING PERFORMANCE IN ARID AREAS UNDER SCARCE HYDROLOGICAL DATA, Aisha Mufti Al-Qurashi, Oman.	DEGREE OF FLOCCULATION AND RHEOLOGICAL BEHAVIOUR OF WASTEWATER COLLOIDAL SUSPENSIONS, Mustafa. S. Nasser , Oman.
09:30-08:45	FLOOD ASSESSMENT AND ENVIRONMENTAL HAZARD MAPS OF WADI RABIGH, WESTERN PART OF SAUDI ARABIA, Ali M. Subyani, Saudi Arabia.	تقييم كفاءة محطات معالجة مياه الفضلات في إزالة المعادن الثقيلة لبعض مستشفيات مدينة الموصل/العراق، زينة فخري الهاشمي، العراق.
08:45-09:00	QUALITY OF STORMWATER RUNOFF IN THE STATE OF KUWAIT, Rawa Al-Jaralla, Rana Al-Fares, Kuwait.	معالجة مياه فضلات صناعة النسيج بطريقة التعويم بالهواء المذاب، ساطع محمود الراوي وحامد إدريس حامد الخشاب، العراق.
09:00-09:15	THE USE OF 2-D-HYDRAULIC- SIMULATIONS IN ARID WADIS FOR FLOOD PROTECTION IN THE BATINAH	NUMERICAL SIMULATION OF THE CONTINUOUS THICKENING OF FLOCCULATED WASTEWATER

	PLAIN, Oman , Christian Siemer, Frank Kleist, Theodor Strobl, Oman/Germany.	SUSPENSIONS , Mustafa. S. Nasser , Oman.
09:15-09:30	MODELLING FLASH FLOODS IN EGYPT: THE FLAFLOM PROJECT , Jan Cools, Marc Huygens, Ahmed Abdelkhalek, Willy Bauwens, Mostafa El Sammany, Ahmed Hassan Fahmi and Medhat El Bihery, Belgium.	تصميم وحدة معالجة مياه صرف صناعي ناتجة من مصنع ظلاء المعدني، خيرى محمد العمارى، ليبيا
09:30-09:45	<i>Discussion</i>	<i>Discussion</i>
09:45-10:00	Refreshment Break	
10:00-11:30	SESSION 15: CLIMATE CHANGE IMPACTS ON WATER RESOURCES Co- Chairpersons: Dr. Abudlaziz AL-MUSHAIKHI & Dr. Ali AL-MAKTOOMI	SESSION 16, TITLE: AGRICULTURE AND WATER Co- Chairpersons: Asadullah AL-AJMI & Dr. Ahmed AL-BAKRI
10:00-10:15	Some Aspects of Hydrological Modeling for Climate Change , Vincent Kotwicki, Kuwait.	EVALUATING POTENTIALS AND CORRESPONDING RISKS OF OPTIMAL DEFICIT IRRIGATION STRATEGIES IN OMAN UNDER CLIMATE CHANGE , Niels Schütze, Sebastian Kloss and Gerd H. Schmitz, Germany.
10:15-10:30	WATER RESOURCES ASSESSMENT & CLIMATIC CHANGE IN OMAN , Said Al Hattaly, Masoud Al-Kindy and Hamed Al Hatmi, Oman.	تقييم خصائص أداء نظام الري بالتنقيط ومكوناته في المملكة العربية السعودية، حسين محمد الغباري، المملكة العربية السعودية.
10:30-10:45	IMPACT OF CLIMATE CHANGE ON WATER RESOURCES IN YEMEN: CASE STUDY: SURDUD DRAINAGE BASIN , Dr. Mansour Haidera and Dr. Abdullah Noaman, , Yemen.	EFFECT OF IRRIGATION REGIME AND EMITTER DEPTH ON YIELD AND WATER USE FOR TOMATO , Al-Omran, A. M., S. El-Damry, M.E.A. Nadeem and A. El-Eter, Saudi Arabia.
10:45-11:00	CLIMATE CHANGE IMPACTS ON WATER RESOURCES IN YEMEN , Georg Petersen, Jens Kiesel, Steven Wade, Yemen.	NOVEL IRRIGATION TECHNIQUE ON ROOFS OF OMANI HOUSES: CAPILLARY SIPHONING, OPTIMIZATION OF WATER UPTAKE, THERMAL INSULATION AND WASHBURN-TYPE MODEL , Kacimov A.R., Al-Issai, J., and Al-Amri M. , Oman.
11:00-11:15	REAL-TIME MONITORING OF GROUNDWATER SALINITY IN COASTAL AQUIFERS , Niels Schröder, Paul Thorn And John Mortensen, Denmark	EFFECT OF ZEOLITE AND WATER STRESS ON BARLEY IRRIGATED WITH SUB-SURFACE DRIPPER IN HOT ENVIRONMENTS , Ahmed Al-Busaidi, Tahei Yamamoto, Torahiko Tanigawa and Hayder Abdel Rahman, Oman.
11:15-11:30	VARIATION OF GROUNDWATER LEVELS DUE TO DECREASING OF RAINFALL , Ali Mohamad ALASAAD, Syria.	SAVING 50% OF IRRIGATION WATER BY IMPLEMENTING PROVEN SENSOR TECHNOLOGY: NEW SENSOR TECHNOLOGY SAVES UP TO 50% OF IRRIGATION WATER IN THE GCC REGION , A. Rol, The Netherlands
11:30-11:45	تأثير التغيرات المناخية على الواردات المائية لنهر الحصين، غطان عمّار - سوريا.	
11:45-12:00	<i>Discussion</i>	<i>Discussion</i>
12:00-12:15	Refreshment Break	
12:15-12:45	SESSION: CONFERENCE CONCLUSION AND RECOMMENDATION Co- Chairpersons: Eng. Ali Redha HUSSAIN, WSTA President & Dr. Waleed AL-ZUBARI, Scientific Committee Chairman	
12:45-	Lunch	
FOURTH DAY 25 March 2009		
FIELD TRIP (Wadi Daygah Dam); registration required		