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Participant: 100 €; Members: 90 €; Students: 60 €
Field trip 2 days and 1 day (October 6-8): 200 €

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The **Second** Environmental Symposium of the
German-Arabic Society for Environmental Studies

Water

Resources and Environmental Protection in the Middle East and North Africa

AMMAN, JORDAN
October, 4 and 5, 2004

Program



Organized by
German-Arabic Society for
Environmental Studies

Second Environmental Symposium of German-Arabic Society for Environmental Studies.

„Water Resources and Environmental Protection in the Middle East and North Africa.“ Amman, Jordan, October 4 - 5, 2004

Program October 4, 2004

09:00 Registration
 09:30 Opening and Welcome (Chairman Prof. Dr. Salameh)
 Chairman of German-Arabic Society for Environmental Studies: PD Dr. Fathi Zereini
 President of the University of Jordan, Amman: Prof. Dr. Abdullah Al Musa
 Minister of Water and Irrigation: Dr. Hazim El Naser

Topic 1: Water Resources, Protection and Management

Water Resources (Chairman: Prof. Dr. Nadhir Al Ansari)

10:00 Hötzl, H. (University Karlsruhe), Keynote lecture:
 Challenge of Sustainable Development for the Water Resources of the Jordan Rift System.
 10:20 Salameh, E. (University of Jordan): Redefining the Water Poverty Index.
 10:35 Ali, W. et al. (University Karlsruhe): Investigations to Improve the Ground Water Resources Situation in the Jordan Rift Valley.
 10:50 Break and Poster Presentation
 11:20 Magiera, Ph. & Taha, S. (GTZ/Amman): The National Water Master Plan of Jordan Strategies to Bridge the Gap.
 11:35 Toll, M., Dietrich, P. & Sauter, M. (University Göttingen): Investigating the Freshwater Potential of Shallow Unconsolidated Aquifers in Lower Jordan Valley (Jordan).
 11:50 Fehdi Chemseddine (University of Tébessa, Algeria) & Salameh, E. (University of Jordan): Geology and Hydrogeology of the Area Between Suleikhat and Waqqos/ Jordan.

12:05 Kolditz, O., Sawarieh, A., Chen, C., Beinhorn, M., Salameh, E. & Hötzl, H. (University Tübingen, Karlsruhe & Amman): Numerical Modeling of Thermal Water From Zara - Zarqa Main - Jiza Regions - Central Jordan.
 12:20 Abu Ju'ub, G. (RWTH Aachen): Additional Water Resources for Jenin Governorate / Palestine A Prospect for the Future.
 12:35 Lunch Break
 13:45 Weise, S., Lange, T., Marej, S., Kanan, A., Starinsky, A. & Katz, A. (Leipzig-Halle, Jerusalem): Recharge Assessment in a Semi Arid/Arid Region by Using Hydro-Chemical and Isotope Techniques in the Mountain Aquifer, Israel/Palestine.

Water Protection (Chairman: Dr. Nawal El Sunna)

14:00 Azzam, R. & Lambarki, M. (RWTH Aachen) Keynote lecture:
 Evaluation of the Contaminant Transport and the Vulnerability of the Groundwater Using the Emission-Transmission-Immission-Concept.
 14:20 Güner, I. (Gati University, Ankara, Turkey): Water Erosion and Sediment Problem Control in Turkey.
 14:35 Batarseh, M. (Mutah University/Jordan): Residue Analysis of Organic Pollutants in Sediments from the Amman/Zarqa Area, Jordan.
 14:50 Akber, A. & Ghoneim, H. (Kuwait): Diagnostic Approach in Determining Hydrocarbon Pollutants in Groundwater: A Case Study from Kuwait.
 15:05 Naji, F. (Braunschweig): The Pollution Sources of the Palestinian Environment and Their Impacts on Public Health.
 15:20 Möller A., Darwish, T., Abdullah, A., Iamoo, I. & Utermann, J. (BGR/Germany, ACSAD/Syria, CNRS/Lebanon): Nitrate Leaching and Groundwater Pollution due to Over-fertilisation in the Bekaa valley.

15:35 Rashed, K. & Parkin, G. (Libya/UK): Defining Protection Zones for Karst Aquifers Using Modified EPIK Method.
 15:50 Pourmoghaddas, H. (Iran): A Study of the Ground Water Quality of Lenjan Township of Istahan Province. Iran.
 16:05 Break and Poster Presentation

Water Management (Chairman: Eng. Fayez Bateineh)

16:35 Dr. Abu-Safieh, Y. (Palestine) Keynote lecture:
 Water Management in Palestine.
 16:55 Altfelder, S., Al Sibai, M., Schelkes, K., Rajab, R. & Darwish, T. (BGR/Germany, ACSAD/Syria, CNRS/Lebanon): Value of Preliminary Field and Model Investigations for Groundwater and Land Use Management in the Bekaa Valley, Lebanon.
 17:10 Al-Senafy, M. & Al-Khalid, A. (Kuwait): Chronology of Urban Groundwater Utilization in the State of Kuwait.
 17:25 Kirscht, H. & Rademacher, C. (University Köln): Irrigation Systems and Water Management in the Draa Catchment, Southern Morocco. - An Anthropological Comparison Between the High Atlas Mountains and the Draa Oasis.
 17:45 Yang, H. (Switzerland): Virtual Water Trade Across the Mediterranean Sea: Patterns, Scale and Policy Implications.
 18:00 Merkel, B. (University Freiburg): Groundwater Model of the Wadi Zerqa Catchment, Jordan
 19:30 Conference Dinner

Program October 5, 2004

Water Management (Chairman: Eng. Raed Daoud)

09:00 El Alami, H. (Al al Bayt University, Mafraq, Jordan): Statistical Analysis of Records at Three Major Meteorological Stations in Jordan.
 09:15 Sunna, N. (Water Authority, Amman): Quality Criteria Challenges in Wastewater Reuse Management in Jordan.
 09:30 El Farajat, M. (Al al Bayt University, Mafraq, Jordan): Hydrogeo-Eco-Systems in Aqaba/Jordan.
 09:45 Break and Poster Presentation

Topic 2: Waste Water Treatment and Reuse (Chairman: Prof. Dr. Adel Mahasneh)

10:15 Pöttmann, W. & Salameh, E. (University Frankfurt am Main, University of Jordan) Keynote lecture:
 New Polar Organic Pollutants in Waste and Surface water.
 10:35 Dichtl, N. (University Braunschweig): Wastewater and Sewage Sludge Reuse in Agriculture.
 10:50 Nassar, A. & Afifi, S. (Islamic University Gaza, Palestine): Sewage Sludge Dewatering Using Reed Bed System in the Gaza Strip-Palestine.

11:05 Al Baz, I. (InWent/Amman): Waste Water Treatment and Reuse.
 11:20 Al-Ansari, N. & Al-Hanbali, R. (Al al Bayt University, Mafraq, Jordan): Solid Waste Management and Disposal in Mafraq City.
 11:35 Fugaha, A. & Al-Saed, R. (Birzeit University, Palestine): Development of a Two-Stage Biofilter System to Enhance the Effluent Quality of a UASB Pre-treated Domestic Sewage.
 11:50 Schulz, E., Jakubowska, J., Wenzel, K.-D., Hubert, A., El-Ama, C. & Chefetz, B. (Leipzig-Halle, Jerusalem): Fate of Pesticides in Soils Irrigated with Treated Wastewater: Interactions with Soil Organic Matter and Plant Materials.
 12:05 Lunch Break

Topic 3: Air Pollution, Protection and Climatic Changes (Chairman: Dr. Jaser Rabadi)

13:30 Jaeschke, W. (University Frankfurt am Main) Keynote lecture:
 On the Uptake of Organic Compounds in Rainwater.
 13:50 Seiler, W., Kunstmann, H. & Suppan, P. (Forschungszentrum Karlsruhe): High Resolution Regional Climate Simulations for the Eastern Mediterranean and the Near East.

14:05 Reimer, E., Beekmann, M., Kerschbaumer, A. & Möller, D. (Freie University Berlin, Cottbus, France): Measurement Campaign HOVERT: Aerosol Transports Comparison of Model Results and Measurements.
 14:20 Kuhlbusch, T. & Müller, W. (Duisburg/Hanover): Fine Particles in the Atmosphere - Effects, Sources and Implications.
 14:35 Rabadi, J. (Jordan): The Adverse Impact of Weather on Environment.
 14:50 Break and Poster Presentation

Topic 4: Water Conflicts (Chairman: PD Dr. F. Zereini)

15:15 Liebscher, H.-J. (Vallendar, Germany) Keynote lecture:
 Potential of Conflict in Transboundary Waters in the Middle East and North Africa can Anything be Done towards their Solution?
 15:35 Messerschmid, C. (Palestine): Plans and Effects of the Israeli Separation Barrier on Palestinian Water Resources.

Poster

Kirscht, H. & Rademacher, C. (University Köln): Anthropological Work in an Interdisciplinary Research Project-IMPETUS in the Draa Valley, Southern Morocco.
 Jakubowska, J., Schulz, E., Wenzel, K.D., Hubert, A., El-Ama, C. & Chefetz, B. (Leipzig-Halle, Jerusalem): Influence of Irrigation Water Quality on Spectroscopic Properties of Different Soil Organic Matter (SOM) Fractions.
 Hummel, D. (Inst. For Social-ecological Research, Frankfurt am Main): Demographic Changes, Transformations of Water and Food supply Systems and Conflicts on Resources in the Middle East.
 Salah, T. (Palestine): Septage Characterization and Impact Assessment on the Treatment Efficiency of Albireh Sewage Treatment Plant.

Al-Dergham, M. (GTZ/Amman): Reclaimed Water Project.
 Suppan, P., Schmitz, R. & Seiler, W. (Forschungszentrum Karlsruhe): A Concept for Air Quality Modelling in the Eastern Mediterranean based on the MCCM/NMS Modelling System.
 Al-Qallaf, H. & Al-Otaibi, M. (Kuwait): Recharge Improvement of Tertiary Treated Wastewater through Soil Aquifer Treatment System.
 Aish, A. & De Smedt, F. (Brussel, Belgium): Artificial Recharge Modeling in the Gaza Coastal Aquifer, Palestine
 Banat, F., Qiblawi, H., Seibert, U., & Vogt, G. (Jordan, Germany): Autonomous Desalination System Concepts for Sea Water and Brackish Water in Rural Areas Withrenewable Energy Potentials.

Hassan, S., Böcker, R. & Schmieder, K. (Hohenheim University Stuttgart, Syria): Assessment of the Ecological status of Lake Qattienah /Syria.
 Margane, A., Droubi, A. & Hobler, M. (BGR-Hanover, ACSAD-Syria): Guidelines for Groundwater Resources Management and Protection in the Arab Region.
 Daoud, R. (Jordan): Optimized Water Management in the Jordan Valley Area.