

Program: Monday, September 20, 2010

08:00 Registration

09:30 Opening and Welcome

The German-Arab Scientific Forum for Environmental Studies
School of Arts & Sciences, Lebanese American University
Ministry of Energy & Water
Ministry of Environment
Arab Forum for Environment & Development (AFED), Al-Bia Wal Tanmia
Centre Nationale de la Recherche Scientifique (CNRS)
Friedrich-Ebert Stiftung, Beirut

10:00 Reception

Session 1: Impact of Global Warming on Water Resources.

(Chairman: **Najib Saab**, AFED, Lebanon)

10:30 Klingbeil, R. (UN ESCWA) & Assaf, H. (Lebanon):

Keynote lecture: Water, scarcity, climate change in the Middle East - Some considerations.

11:10 Arkadan, M. (Lebanon):

Climatic conditions change scenarios and its impact on ground water resources.

11:30 Assaf, H. (Lebanon):

Assessing the impact of climate change on the water resources of the Upper Litani River Basin, Lebanon.

11:50 Hummel, D. (Germany):

Effects of global warming, land degradation and socio-economic changes on human migration.

Session 2: Water Resources, Protection and Management.

(Chairman: **Fadi Comair**, Ministry of Energy & Water, Lebanon)

12:10 Sauter, M. et al. (Germany):

Scale effects in fractured aquifers – The eternal story.

12:30 Subah, A. & Margane, A. (Germany, Jordan):

Water resources management and protection in the framework of the New Water Strategy of Jordan.

12:50 Salameh, E. (Jordan):

Trans-boundary groundwater aquifers.

13:10 Lunch Break

(Chairman: **Hamed Assaf**, American University of Beirut, Lebanon)

14:20 Geyer, S. et al. (Germany):

Methods for characterisation of karst aquifers.

14:40 Doummar, J., Geyer, T. & Sauter, M. (Germany):

Development of a quantitative vulnerability concept for karst systems: Application on the Jeita catchment system – Lebanon.

15:00 Nouriri, I. et al. (Tunis):

Optimization of groundwater resources management.

15:20 Saadeh, M. (Lebanon):

Nitrate contamination in the Upper Litani River Basin.

15:40 Gossel, W. et al. (Germany):

Hydrochemical and isotope analysis of deep groundwater from the Nubian Aquifer system in the Egyptian Oases.

16:00 Coffee Break and Poster Presentations

16:30 Reshid, M. et al. (Germany):

Identification of nitrate sources in selected aquifers of Saudi Arabia using isotope techniques.

16:50 Margane, A. & Makki, I. (Germany):

Reducing pollution risks for the water supply of Beirut in a karst Aquifer.

17:10 Margane, A. & Doummar, J. (Germany):

Protection zone delineation using tracer tests in the Jeita ground-water catchment - Objectives and preliminary results.

Evening free.

Program: Tuesday, September 21, 2010

Session 2: Water Resources, Protection and Management.

(Chairman: **Elias Salameh**, University of Jordan)

09:00 Fehdi, Ch. et al. (Algeria):

Influence of saliferous Triassic formations on the groundwater quality of the Plio-Quaternary aquifer of Northern area of Tebessa, (North East of Algeria).

09:20 Al Baz, I. (Germany):

Strengthening the MENA water sector through regional networking and training - MENA WANT -InWEnt Water Programme.

09:40 Zian, A. & Benaabidate, L. (Morocco):

Characterisation of surface water contaminations in R'Dom watershed, Northwest Morocco.

10:00 Saggai, S. & Boutoutaou, D. (Algeria):

Reduce the evaporation by monomolecular film for the preservation of water plans in arid zones (case of northern Sahara, Algeria).

10:20 Strohschön, R., Baier, K. & Post, C. (Germany):

The effects of formal and informal mega-urban development processes on water resources – Case study area megacity Guangzhou, China.

10:40 Coffee Break and Poster Presentations

Session 3: Air and Soils Pollution and Protection.

(Chairman: **Eberhard Reimer**, Germany)

11:20 Lammel, G. et al. (Germany):

Keynote Lecture: Persistent organic pollutants in North and Sub-Saharan Africa – Levels in air and design of a continent-wide monitoring network.

12:00 Sodoudi, S. & Reimer, E. (Germany):

Verification of precipitation forecast of global ECMWF model and regional HRM model for Iran.

12:20 Bonn, B. et al. (Germany):

Estimating the compensation strength of coniferous forests and fruit orchards during climate change.

12:40 Reimer, E. (Germany):

Regional transports (Near/Middle East) of PM10 into the Teheran area.

13:00 Saliba, N. et al. (Lebanon):

Air quality assessment and implications in Beirut, Lebanon.

13:20 Melegy A. et al. (Egypt):

Trace-element geochemistry of coal and suspended particulate matter at El Maghara Mine, Egypt.

13:40 Lunch Break

14:40 Labar, S. et al. (Algeria):

Characterization of soil and groundwater contamination by effluents (Application on Algeria N.E).

Session 4: Wastewater Treatments and Reuse.

(Chairman: **Jean Chatila**, Lebanese American University, Lebanon)

15:00 Dichtl, N. & Bauerfeld, K. (Germany):

Keynote Lecture: Agricultural reuse of water and nutrients from wastewater treatment.

15:40 Korfali, S. (Lebanon):

Impact of waste dump and waste water discharge on Lebanon's coastal water quality.

16:00 Coffee Break and Poster Presentations

16:20 Chatila, J. (Lebanon):

Cost-Benefit and performance analysis of centralized and decentralized wastewater treatment plant – A case study.

16:40 Klebingat, S. et al. (Germany):

Modelling of pollutant production by underground coal gasification.

17:00 Benaïssa, H. (Algeria):

Rate determining steps study in cadmium sorption from aqueous solutions by dried activated sludge.

20:00 Conference Dinner