



Technische  
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Braunschweig

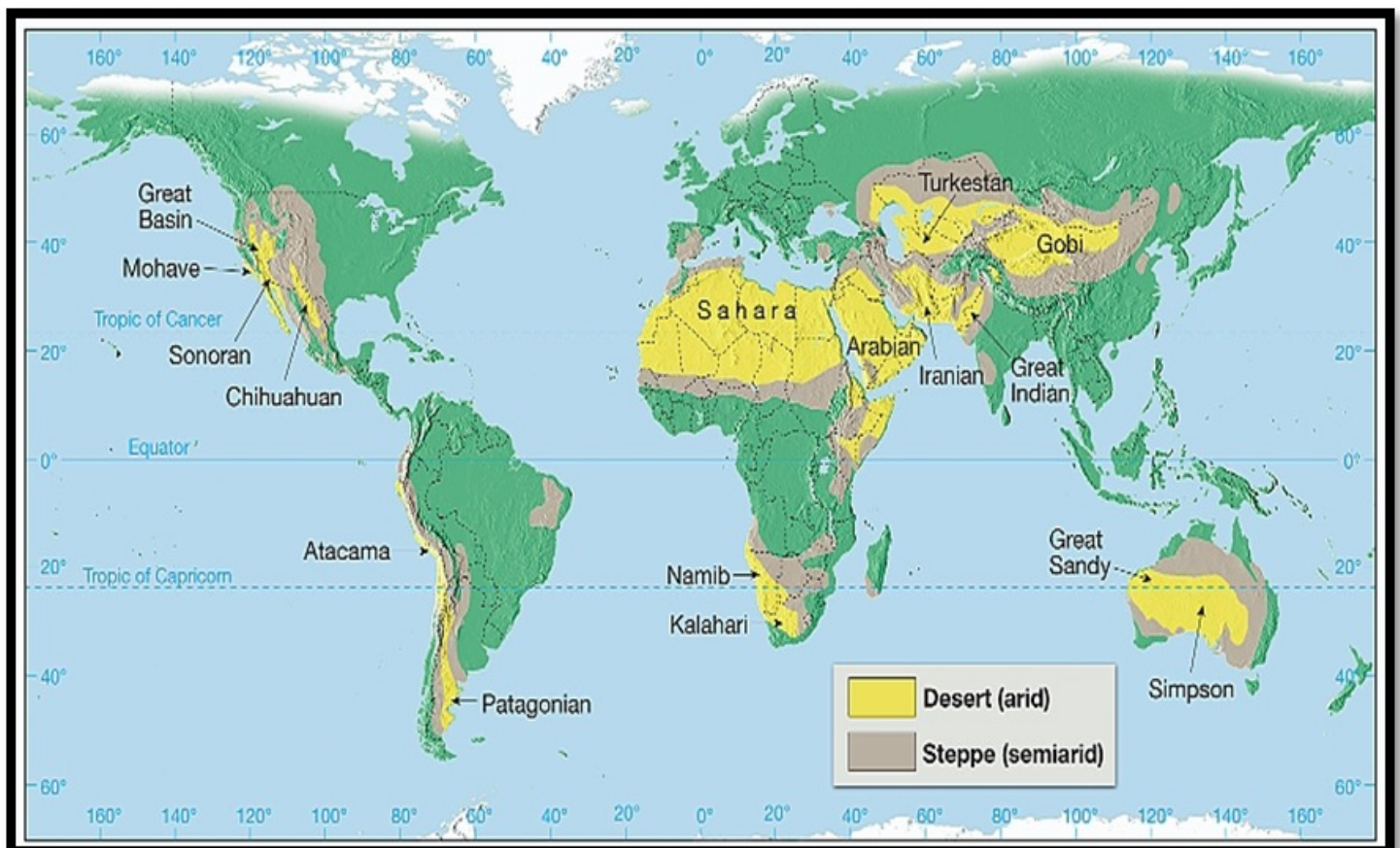


EXCELLENCE CENTER FOR  
DEVELOPMENT COOPERATION  
SUSTAINABLE WATER MANAGEMENT

## Regional Workshop

# Sustainable Management of Hydrological Systems in Arid and Semi-Arid Regions

May 11 – 15, 2013 / Karak/Amman, Jordan



Funded by



DAAD

# Sustainable Management of Hydrological Systems in Arid and Semi-Arid Regions

## Overview

Natural water scarcity in the Mediterranean countries, especially in arid and semiarid zones with high rate of population growth, urbanization and industrialization, forced by man-made factors, makes it difficult to achieve a reliable water resources supply. Dry-lands cover about 41% of Earth's land surface and are habitat to more than 38% of the total global population of 6.5 billion. Several aspects of severe land degradation are in attendance on 10 to 20% of these lands. The consequences of these aspects are directly affect more than 250 million people were most of them are living in the developing countries. This estimation is likely to expand substantially as a result of climate change and population growth.

. These problems are presenting an important insight into the complexity of arid region hydrology. Therefore, the engineering hydrology of arid and semi-arid regions are demanding to explore the key components for formulating and implementing integrated management approaches in catchments (Wadi) systems.

During the last two decades, the research efforts and networking have enhanced the state of knowledge about arid and semi-arid areas, especially watershed and catchments systems. By combining these information together into a comprehensive resource, this workshop provides a better understanding of wadi hydrology, capacity-building processes, water education and training, and institutional development. This understanding can then, be used to select the appropriate tools to support water management and sustainable use of water resources in arid and semi-arid regions.

## Objectives

The workshop main objectives are: to share the experience, knowledge, research between the different partners, to discuss main problems and challenges in the field of water management in arid and semi arid regions, including various hydrological and meteorological aspects, and to build up networks between the Middle East and Sub-Sahara African scientists sharing the same challenges and research problems.

## Topics

- Water Resources Management in Arid and Semi-Arid Regions.
- Climate Change Impacts.
- Practice Experience in the Field of Flash Flood Control.
- Ground Water as a Main Source of Water in Arid and Semi-Arid Regions.
- Reuse of Water and Pollution Control.

## Workshop Organization

The workshop will take place in Karak and Amman, Jordan. Prince Faisal Center for Dead Sea Environmental and Energy Research at Mutah University and Water Environment and Energy Studies Center at University of Jordan will host the workshop in collaboration with Ain Shames University from Egypt within the framework of Exceed project at Technical University of Braunschweig in Germany that funded by the German Academic Exchange Services (DAAD). The workshop will be held during the period 11th-15th May 2013.

## Lectures

The workshop will be consisting mainly of four presentation sessions followed by discussion. Posters can be presented and show during the coffee breaks.

# SCHEDULE

Day	Date	Time	Activity
Saturday	11/05/2013		Arrivals
Sunday	12/05/2013	10:00 - 10:30	Registration
		10:30 – 11:00	<b>Opening ceremony</b>
			<b>Keynote speakers:</b> University of Mutah Faculty of Engineering Ain Shams University University of Jordan EXCEED DELEGATION REPRESENTATIVE
		11:00 – 11:30	Coffee Break
		11:30 – 12:30	Session 1 - Presentations
		12:30 – 13:00	Session 1 – Discussion
		13:00 – 14:30	<b>Lunch Break</b>
		14:30 – 16:00	Session 2 - Presentations
		16:00 – 16:30	Session 2 – Discussion
Monday	13/05/2013	9:00 – 10:30	Session3 – Presentations
		10:30 – 11:00	Session 3 – Discussion
		10:30 – 11:00	<b>Coffee Break</b>
		11:00 – 12:30	Session 4 – Presentations
		12:30 – 13:00	Session 4 – Discussion
		13:00 – 14:30	<b>Lunch Break</b>
		14:30 – 15:30	Conclusions
		15:30 – 16:00	Closing and group photo
		18:30 – 21:00	<b>Dinner outside</b>
Tuesday	14/05/2013	10:00 – 16:00	<b>Excursions</b>
Wednesday	15/05/2012		Departures

## Lectures and Course Material:

Lectures from ME and abroad.

## Target Audience:

Hydrologists from all scales from students to professionals and experts, water resources scientists specially those working in arid and semi arid areas.

## Number of participants:

The number of participants is limited to 25. The candidates from the DAAD-EXCEED partner universities in Middle East will be given first priority. DAAD-EXCEED will cover the following costs: flight, accommodation.

## Application:

Please apply online until **April 5, 2013**

<http://www.exceed.tu-braunschweig.de/apply>

Selection and Notification to the applicants until **April 8, 2013**

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Internet: [www.exceed.tu-braunschweig.de](http://www.exceed.tu-braunschweig.de)

Email: [exceed@tu-braunschweig.de](mailto:exceed@tu-braunschweig.de)

**Contact:**

Prof. Dr. Mufeed Batarseh  
PFC-DSEER, Mutah University  
PO Box 7, Karak 61710, Jordan  
Email: [Batarseh\\_m@hotmail.com](mailto:Batarseh_m@hotmail.com)

**Venue:**

Mutah University, Karak (First Day)  
University of Jordan, Amman (Second Day)

**Organization TU Braunschweig:**

Prof. Dr. Andreas Haarstrick  
Scientific Coordinator  
Excellence Center for Development Cooperation  
Sustainable Water Management  
Beethovenstraße 51a  
D-38106 Braunschweig, Germany, Email: [a.haarstrick@tu-bs.de](mailto:a.haarstrick@tu-bs.de),  
Tel.: +49 531 391-3935

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