



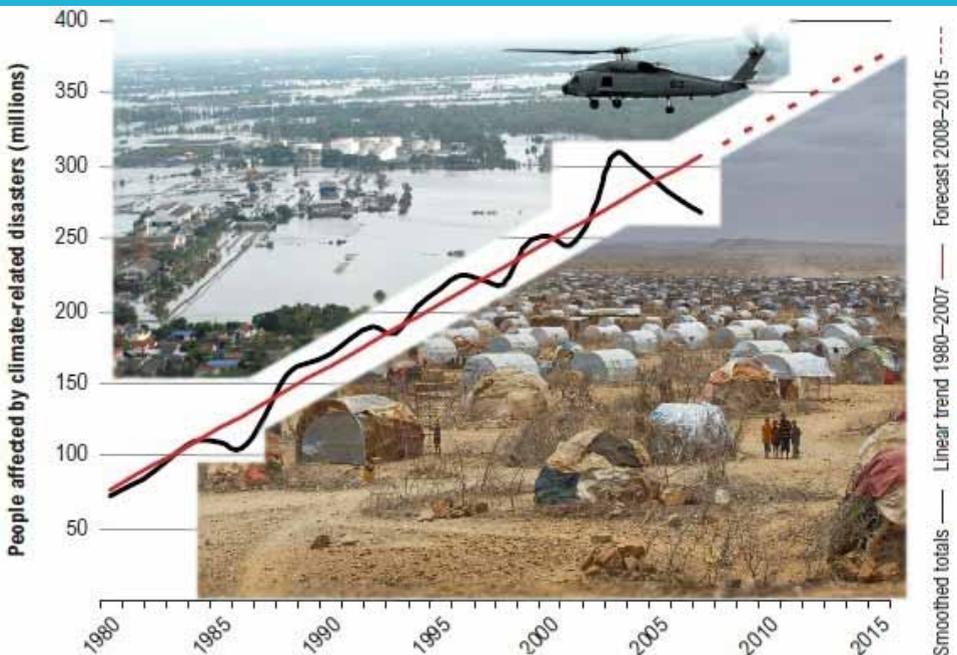
Technische
Universität
Braunschweig



EXCELLENCE CENTER FOR
DEVELOPMENT COOPERATION
SUSTAINABLE WATER MANAGEMENT

Summer School on Climate Change and Global Water Problems

November 04 – 11, 2012 / Braunschweig, Germany



funded by



Federal Ministry
for Economic Cooperation
and Development

DAAD

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EXCELLENCE CENTER
FOR CLIMATE AND DEVELOPMENT

Summer School on Climate Change and Global Water Problems

Overview

The increasing number of meteorological, hydrological and climatological extreme events like draughts, floods and thunderstorms makes Climate Change and Global Water Problems one of the main global challenges.

This summer school aims at giving an all-embracing and interdisciplinary overview of the interconnection between both phenomena: the quantitative aspects of unequal global water share and the water quality issues.

On the basis of related case studies and in consideration of the specific local conditions, scenarios of the future water situation until 2050 will be developed.

The following two practice sessions will again combine natural science research on climate change with engineering and social science approaches on how to deal with the consequences, using case studies from different countries.

It is intended that the outcomes of the summer school will constitute the Second Braunschweig Water Declaration with global reach.

Objectives

The summer school aims at providing answers to the following questions:

- How will the water balance in different parts of the world change?
- Will water scarcity lead to further technical and social problems?
- How will water quality be influenced by the climate change?
- What is Global Water Governance and how is it implemented?

- How can specific state action in this transnational policy field be explained on the basis of International Relations theory?

Topics

- New sanitation systems and their technical and social aspects
- Adaption of traditional technologies
- Wastewater reuse as a solution for water scarcity
- The Tragedy of the Commons
- Common, Public or Private Goods to overcome the Tragedy of the Commons
- The Prisoner's Dilemma
- The Logic of Collective Action

Course Organization

This event consists of theoretical lectures, working groups dealing with particular aspects, and a technical visit to wastewater treatment and reuse facilities of Braunschweig, besides an cultural excursion to historical locations in the neighborhood.

Lecturers

Prof. N. Dichtl, **Prof. T. Dockhorn** (Institute of Sanitary & Environmental Engineering, TU Braunschweig); **Prof. C. Dorm-Adzobu** (Exceed Guest Chair, Faculty of Arts & Social Studies / Dept. of Environment and Development Studies, Central University College, Accra, Ghana); **Prof. U. Menzel** (Institute of Social Sciences, TU Braunschweig); **Prof. A. Schwalb** (Institute of Geosystem & Biointegration, TU Braunschweig); further experts

Schedule		
Sunday	11/04/2012	Arrival and get together
Monday	11/05/2012	Opening ceremony Key Note No. 1: Change of water situation until year 2050 (NN) Key Note No. 2: New sanitation systems and resources management (Dockhorn) Key Note No. 3: The Tragedy of the Commons (Menzel) Welcome reception
Tuesday	11/06/2012	Case studies: 1. Climate change and adaptability in the Savannah Region of Western Africa (Dorm-Adzobu) 2. Post socialist water distribution conflicts: The tragedy of the Lake Aral (Menzel / Garbowsky) 3. Artificial irrigation by reuse of treated wastewater in the Braunschweig Region (Mesek / Teiser / Dichtl) 4. The consequences of climate change for the Tibetan Plateau, the major Asian rivers, and irrigation in agriculture (Schwalb) 5. Jordan water and the Middle East Conflict (Berthold / Bressler)
Wednesday	11/07/2012	Working group: Climate change, water scarcity, and social conflicts
Thursday	11/08/2012	Working group: Water reuse, new sanitation systems, and climate change
Friday	11/09/2012	Technical visit to wastewater treatment and reuse facilities of Braunschweig Finding solutions: The "Braunschweig Water Declaration" revised – 10 years after
Saturday	11/10/2012	Excursion to the UNESCO World Heritage "Upper Harz Water Management System"
Sunday	11/11/2012	Departure

Target Audience

MA / M.Sc. students, PhD students, post-doc researchers and senior research scientists from Engineering, Natural, and Social Science Departments interested in Sustainable Water Management and the political, social and economic implications of climate change.

Number of participants

The number of participants is confined to 35.

Application

Please apply online until **August 25, 2012**:
<http://www.exceed.tu-braunschweig.de/apply/summerschool>

Internet: www.exceed.tu-braunschweig.de
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Venue: Technische Universität Braunschweig
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