



DAAD-Alumni Expert Seminar "Water & Biodiversity"

The German Academic Exchange Service (DAAD) provides financial means to the German Alumni Water Network (GAWN) for organizing an Alumni Expert Seminar on "Water & Biodiversity" to be held in Bangalore, India. The seminar language is English.

The Expert Seminar is scheduled from November 1, 2009 (day of arrival) until November 6, 2009 (day of departure). It will be organized by the Master Study Program "Resources Engineering" at the Department of Civil Engineering, Geo- & Environmental Sciences, Universität Karlsruhe (TH), Karlsruhe, Germany in cooperation with the Department of Civil Engineering, University Visvesvaraya College of Engineering (UVCE), Bangalore, India. Upon successful application, 20 participants will be invited to India.

Target group

Participants of the Expert Seminar shall be

- alumni of a German university and/or scholarship holder of a German funding agency (min. 3 months), especially from South Asia, Southeast Asia and China, who are
- working in water management,
- "multipliers," i.e. people in a leadership position who will spread the acquired knowledge and experience, and/or decision makers.

Program

The key question of the seminar is "How can the increasing demand for water in developing countries be satisfied without jeopardizing biodiversity?". This question shall be approached from the perspectives of natural, engineering and socio-economic sciences. Potential subtopics in five sessions are:

Session I. Natural Resources Dynamics

- Assessment of the water demand of (natural) ecosystems
- Eutrophication of lagoons and lakes by discharge of nutrients
- Contamination of water bodies by discharge of industrial and agricultural waste water
- Water logging—associated problems and possible solutions
- Impact of the (global) climate change on biodiversity in aquatic biotopes
- Scenarios and future trends for groundwater mining and recharge

Session II. Technical Management

- Integration of wetlands into catchment- and river basin management
- Industrial, urban and agricultural Water management for sectors
- Conservation of wetlands without affecting agricultural productivity and income of the rural population
- Impact of water harvesting on biodiversity of dry areas
- Development of dams and water power plants, regulation of stream and rivers
- Data collection: specialized tools and techniques, e.g. Remote Sensing, GIS, GPS

Session III. Economic Management

- Assessing the economic value of natural resources; monetizing relevant ecosystem services such as flood control
- Socio-economic assessment of biodiversity

Session IV. Administrative Management

- Simulation modelling for sustainable water resources management
- Implementing environmental impact assessment studies
- Deliberation of various interests: e.g. health, food, environment, water, cities, industry, energy, risk management, knowledge, politics
- Contribution of GIS-biased decision support systems (DSS) to optimizing water supply for wetlands

Session V. Integrated Management

- Case reports on river basin management
- Management of freshwater resources and biodiversity in coastal areas
- Methodologies and indicators to measure sustainability of water and biodiversity at a regional level using global scenarios
- Ancient Indian knowledge and philosophies on water, water use and biodiversity

Aside from the above listed five sessions with presentations and discussions, the program will include presentations by keynote speakers, an excursion and a closing plenary discussion including a summary of the main outcomes. Participants will actively contribute to sessions by

- presenting their projects, research, or field reports,
- chairing a session, and
- attending session discussions and the closing plenary discussion.

Cost coverage

The following lump sums will be covered by the project

- Flight to/from Bangalore, India (depending on the country of origin)

India	EUR 80
neighboring countries	EUR 300
S-, SE-Asia, China	EUR 500
other continents	EUR 900
- Transport from/to airport in Bangalore, India
- Accommodation (hotel) EUR 250
We will provide a list of affordable hotels with the invitation.
- Meals EUR 100
- Travel health insurance EUR 30 (max.)

Please arrange on your own for your flight, your accommodation and your travel insurance. We are going to disburse the lump sum* for flight and accommodation in cash against the original receipts and your boarding pass. Likewise, the fees for travel health insurances will be refunded in cash upon original receipt.

DAAD expects financial contributions from all participants on the following items

- Transport costs to/from airport in the country of origin,
- Visa fees, and
- * EUR 70 will be deducted from the lump sum for flight and accommodation as personal share.

Application

The application shall include

- Abstract of the presentation you are planning to give (topics s. p 1–2) (max. 1 p, font "arial", fontsize 11 pt, line spacing 1.2)
- CV in Europass** format, including information on personal data, studies at home and in Germany, professional development, validation of alumnus/a status at a German university and/or funding agency and a passport photo, [** www.europass.cedefop.europa.eu/]
- Short description on your present duties / position and your professional goals, and
- Overview of DAAD-Seminars, DAAD-Workshops or DAAD-Summer Schools visited after finishing your studies in Germany.

The application deadline is **July 31, 2009**.

Please send the application (incl. attachments) via email to M. Rieger [[res.eng @ bgu.uka.de](mailto:res.eng@bgu.uka.de)]. Please use in the subject line: "GAWN, Bangalore, Application."

For further questions, please contact [res.eng @ bgu.uka.de](mailto:res.eng@bgu.uka.de).

Karlsruhe, July 2, 2009



Prof. Dr.rer.nat. Josef Winter
Academic Director
Admission & Examination Board
"Resources Engineering"



Prof. Dr.agr.sc. Dieter Prinz