

**Univ.-Prof. PhD Paolo Reggiani**

Paul-Bonatz-Straße 9-11

57076 Siegen

Telefon +49 271 740-2162

Telefax +49 271 740-2921

Paolo.reggiani@uni-siegen.de

www.wasserwirtschaft.uni-siegen.de

## Announcement

Siegen Monday, 20. May 2019

**for the International Alumni Expert Seminar „Climate-related challenges in water management - from floods to low water (droughts) in Latin America“ in Porto Alegre, Brazil.**

The German Academic Exchange Service (DAAD) provides financial support for organising the first part of the binary Expert Seminar to be held in Porto Alegre, Brazil. Organizer is the Federal University of Rio Grande do Sul (UFRGS), Porto Alegre, Brazil, Professor Dr. Michel Gean Paulo in close cooperation with Roberto Eduardo Kirchheim, Geological Survey Brazil– CPRM and Doctorate (PhD) at UNESP.

The Expert Seminar **“Climate-related challenges in water management - from floods to low water (droughts) in Latin America”** is scheduled from **29. September to the 05. October, 2018** (29<sup>th</sup> September day of arrival, 05<sup>th</sup> October day of departure).

### The Topics:

The aim of the project is to support a participatory process in order to bring into mind to responsible municipalities, representatives from economy, science, authorities and other stakeholders the various strategies and coherences of climate-related challenges in water management like floods and low water (droughts), and to strengthen interdisciplinary cooperation. The focused topics of the seminar include (i) Effects of hydro-meteorological extreme on catchment areas; (ii) Identify risks; (ii) Spatial planning under consideration of floods and low water (drought); (iii) Approaches to damage analysis and damage assessment. (The second part of the seminar, which will be held in Medellin, Colombia, will focus on measures planning).

- Floods and flash floods: Precipitation events and runoff processes;
- Processes and influencing factors in the development of low water (dry periods/ drought),
- Causes/Processes of shallow and deep landslides as well as water related soil erosion.
- Generation of artificial (synthetic) precipitation time series versus regional climate models, KOSTRA\_DWD 2010 (extreme value statistically determined precipitation depth),
- Application of radar data in water management practice (assessment of the situation and post-processing),
- Hydraulic hazard analysis (Inundation-Simulation: Calculation/model approaches to the inundation assessment in urban area) and drawing up of a heavy rain hazard map,
- Development of flood hazard and risk maps, required 1-2D models, flood risk management plan,
- Floods caused by groundwater and the risks,
- Low water a complex work structure and the thereout resulting utilization demands and risks;
- Effects of low water on earthworks protection objects (e.g. earth dyke),
- The influence of low water on waters ecology and waters quality,
- Determination of the damage potential (monetary and non-monetary damages), assessment of the damage (vulnerability).
- Etc.

**Group work:**

Working out of a strategy paper: Initial Questions are:

- What are the problems?
- How can risks be identified?
- Which areas are at risk (settlements, agriculture and forestry, etc.)
- Which solution approaches (measures)?
- Which strategies of action exist and which examples of best practice are worthy of imitation?
- Etc.

**The Program:**

The seminar program will include:

- Papers and case studies presented by the participants (Latin American experts) and invited external experts from Germany and from Porto Alegre,
- Group work and group discussions,
- Excursion (Visit of an area with problems and/or good solutions and other activities).

You may find the idea behind the program of the Seminar on the below mentioned web-page.

The very first draft of the program is attached, the update will be send to the seminar participants, and can be found as from end of August on the website: [www.wasserwirtschaft.uni-siegen.de](http://www.wasserwirtschaft.uni-siegen.de) => Projekte => Klimabedingte Herausforderungen in der Wasserwirtschaft – vom Hochwasser bis zum Niedrigwasser – in Lateinamerika " .....mehr. The side will also available in English soon.

Those topics which are not covered by a guest lecturer are available for Latin American experts/ participants. There is also space for additional topics regarding to the main topics of the seminar (yellow marked fields in the program draft).

**Cost Coverage:**

Following costs will be covered by the project

- **For the flight to Porto Alegre, and return we are going to subsidise the ticket costs with a maximum of:**
  - 1275,- Euro for participants from Ecuador,
  - 1185,- Euro for participants from Nicaragua,
  - 1060,- Euro for participants from north Mexico,
  - 950,- Euro for participants from Paraguay, Colombia,
  - 900,- Euro for participants from Guatemala, El Salvador, Bolivien,
  - 750,- Euro for participants from middle Mexico, Mexico City, Panama,
  - 600,- Euro for participants from Peru, Chile,
  - 450,- Euro for participants from south and north Argentina, Uruguay
  - 300,- Euro for participants from Buenos Aires, Salvador, Recife, Fortaleza,
  - 150,- Euro for participants from Curitiba, Sao Paulo.

**The final calculation you will get after the selection of the participants.** Alumni are coming from Latin American countries are not mentioned here are also welcome to send the application.

The flight must be arrange on your own. We will refund the costs for your economy-class return ticket in cash in exchange for the original receipt (e-Ticket voucher) and your boarding pass of the air ticket up to the above mentioned amount.

- **Transport from the Airport in Porto Alegre to the Hotel and return can be done by a public bus (we subsidise the costs with 65,- Euro). If possible we will go and manage a share taxi or the shuttle from the Hotel, but this is only possible when participants arrive nearly at the same time. Detailed information we will provide well enough in advance to the seminar.**

- Accommodation including breakfast, lunch and the conference coffee break during the stay in Porto Alegre (Brazil).
- Excursion including lunch.

**Attention:**

If you need a travel health insurance please arrange the insurance yourself, it is not covered by the project.

Transport costs from your home town to your home airport must be covered by your means.

All ticket costs above the mentioned ceiling must be covered by yourselves (the final calculation you will get with the invitation letter).

If you like to stay in Porto Alegre, before the 29<sup>th</sup> September, 2019 or beyond the 05<sup>th</sup> October, 2019, you have to cover all costs by your means. You have to manage the hotel by yourself for the stay before or after the seminar.

**Participants:**

The participants of the seminar should be

- Alumni of a German University from a developing country (stay in Germany min. 3 months),
  - Working in the field of soil, agriculture and forest, infrastructural planning, environmental and water management, environmental chemistry or other water related sectors (including economy and law).
- “Multipliers”, e.g. people who are in a position to spread the acquired knowledge and experience and/or
- Decision makers, able to take decisions in the above mentioned sectors.

**All Alumni interested in giving a presentation during the expert seminar** are requested to send an abstract. The main topics are given above and in the draft program, respectively (see annex). Abstract should not exceed one page (maximum 450 words); please use font type “Arial”, font size 11, 1.2 line spacing.

**Application:**

Are you interested? Please use the application form:

- The application form is attached or you can download it under the above mentioned website.

**Sufficient knowledge of English is a requirement to participate in the expert seminar.**

**Deadline for application is the 26<sup>th</sup> June 2019.**

Before you send your application, please make sure that in the case you will be selected you are able or allowed to participate (ask your boss before you send the application).

For further questions you may contact [ingrid.althoff@uni-siegen.de](mailto:ingrid.althoff@uni-siegen.de), please send your application also to this e-mail address.

Siegen, 20<sup>th</sup> May 2019

  
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Prof. PhD Paolo Reggiani