

--- NEWSLETTER 7/14 ---

EE+E Environmental Engineering+Ecology U+Ö Umwelttechnik+Ökologie im Bauwesen

actively working in Vietnam for over 14 years

This is the July 2014 EE+E newsletter featuring info on our most recent activities

Workshop “Salt Water Intrusion and Flood Scenarios - Insights from Local Authorities” on June 12th 2014

As a part of the BMBF funded research project LUCCi, the Institute of Environmental Engineering+Ecology (EE+E, Prof. Dr. Harro Stolpe, Ruhr University of Bochum) and the Vietnam Academy for Water Resources has organized the workshop “Salt Water Intrusion and Flood Scenarios - Insights from Local Authorities” in Da Nang City, Vietnam. The Workshop has taken place at the Vu Gia – Thu Bon River Basin Information Center, which was inaugurated in March by the LUCCi Consortium. The goal of the workshop was to gather requests, comments, advices of local stakeholders on scenarios for flood and saltwater intrusion in the lowland of the Vu Gia - Thu Bon River Basin in the context of climate change, land use change and further human interventions.



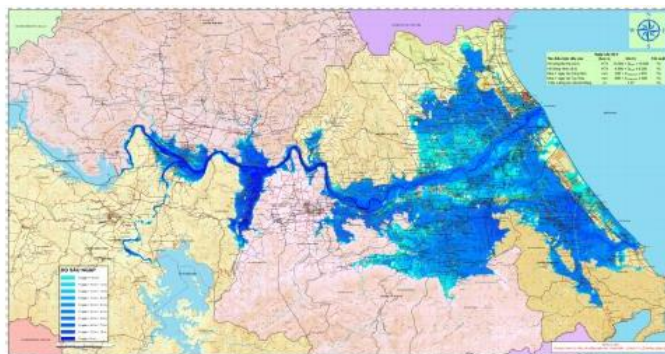
Workshop participants (source: Nguyen The Hung)

30 participants from different local authorities of Quang Nam, Da Nang and other provinces in Central Vietnam as well as from the Ministry of Agriculture and Rural Development and Da Nang University of Technology made contributions to the workshop.

The participants actively exchanged knowledge, experiences and concerns of local authorities on scenario development for floods and salt water intrusion. The workshop resulted in valuable information for the research team in order to develop scenarios, which meet the demands of the local people. For further information email Dipl.-Ing. Nils Fühler nils.fuehrer@rub.de or M.Sc. Trinh Quoc Viet trinhquocviet1981@gmail.com

Integration of Flood-Proofing Management, Drainage and Urban Planning in Quy Nhon and Tuy Hoa, Vietnam

Two capacity development workshops on the integration of flood proofing management, drainage and urban planning for the two central coastal cities Quy Nhon (Binh Dinh province) and Tuy Hoa (Phu Yen province) have been organized by Dr.- Ing- Katrin Brömme and Dipl.- Ing. Nils Führer in May and June 2014. The workshops focused on methods for the integration of the local authorities' knowledge of flood events into the urban planning and the resulting master plans.



Exemplary flood map in Phu Yen province (source: Phu Yen province)

Both cities are located in flood prone areas and are regularly affected by fluvial, pluvial and coastal floods. The results of the two workshops will be summarized in guidelines for the use of relevant authorities. The project is being conducted on behalf of and in close collaboration with GIZ Vietnam. For further information email Dipl.- Ing. Nils Führer nils.fuehrer@rub.de or Dr.- Ing. Katrin Brömme katrin.broemme@rub.de

Delegation from Morocco visits EE+E in Bochum on May 18th 2014

Cities and communities around the world and particularly in Morocco are facing new challenges due to climate change. A significant increase in heavy rainfall and floods has been recorded in the last decades. These natural disasters have caused considerable damage to urban and industrial infrastructure. As a reaction to this, providing hydrological models on various planning levels is a necessary tool for the evaluation and analysis of potential effects of climate change.



Delegation from Morocco and EE+E staff (source: EE+E)

During a delegation visit to Germany, participants from Morocco take the opportunity to discuss future R&D cooperation possibilities with EE+E. The cooperation should focus on planning approaches to solve the emerging problems of Morocco. For further information email Prof. Dr. Harro Stolpe harro.stolpe@rub.de

Ongoing EE+E Research & Development Projects

EE+E has long-term experiences in Vietnam in the field of water resources management, water supply, water protection, environmental planning, Environmental Impact Assessment (EIA) and on mining and environment (<http://www.ruhr-uni-bochum.de/ecology/forschung>). Current R&D projects include:

IWRM-VIETNAM | Integrated Water Resources Management, development and implementation of Planning and Decision Support Tools on river basin level

RAME | Research Association Mining + Environment, development of planning methods for the ecologically and economically sustainable re-use of mining areas, coordination: EE+E, funding: BMBF

WaLaMa | Strategic Water and Land Management for Vu Gia-Thu Bon river basin, sub-project of *Land Use and Climate Change Interaction* (LUCCI), Vietnam, coordination: ITT Institute for Technology and Resource Management in the Tropics and Subtropics, funding: BMBF

KAWATech | Karst Water Technology, EE+E sub-project, GIS-based analysis of socio-economics and water demand in the Ha Giang province in Vietnam, coordination: KIT Karlsruhe Institute of Technology, funding: BMBF

Example EE+E Project KaWaTech

Sub-Project of Karst Water Technology in Ha Giang, North of Vietnam

KaWaTech is a joint research project sponsored by BMBF and composed of German and Vietnamese partners from universities, research institutions, industry and administration under the lead of Karlsruhe Institute of Technology (KIT). The research goal is to develop innovative and sustainable technologies and methods for the water pumping and supply in karst regions on the example of the UNESCO World Natural Heritage Dong Van Karst Plateau. The project aims at improving the quality of life for the inhabitants of the project region. KaWaTech started in September 2013 and will be concluded in August 2016.



Dong Van City located in the project region will be one of the direct beneficiaries of the KaWaTech efforts (source: EE+E /Zi)

The part project of **EE+E** contributes methods to analyse the socio-cultural and legal framework, the water management infrastructure and the current and changing land use as well as a regional water balance based on results from project partners. Additionally, **EE+E** will develop risk and vulnerability maps for the karst aquifer taking into account possible changes of the water balance and land use (in cooperation with KIT-AGW). The research concludes in an innovative and adapted concept for the protection of water resources in the project region. The results will be visualized in planning maps and communicated with the Vietnamese administration. For further information email Dipl.-Geogr. Björn Zindler bjoern.zindler@rub.de

Events

12.-17.10.2014 **1ST INTERNATIONAL WORKSHOP ON URBANIZATION IN WATERSHEDS: ECOLOGICAL AND ENVIRONMENTAL RESPONSES**, Xiamen, China
<http://uwee.csp.escience.cn>

16.-19.10.2014 **BEIJING INTERNATIONAL SYMPOSIUM ON LAND RECLAMATION AND ECOLOGICAL RESTORATION (LRER 2014)**, Beijing, China
<http://islrer.er-china.com/html/en> – **EE+E -presentation**

21.-22.10.2014 **3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MINING AND TUNNELLING (ICAMT 2014)**, Organization: HUMG Hanoi University of Mining and Geology, Vung Tau, Vietnam – **EE+E -presentation**

12.-14.11.2014 **VIETWATER, INTERNATIONAL WATER, INDUSTRIAL WASTEWATER TREATMENT & PURIFICATION SHOW**, Ho Chi Minh City, Vietnam
<http://www.vietwater.com/>

The year 2015 **THE YEAR 2015 IS THE 40TH YEAR SINCE THE BEGINNING OF DIPLOMATIC RELATIONS BETWEEN SR VIETNAM AND FR GERMANY**
 Many celebration events in Vietnam and Germany are to be expected

09.-10.03.2015 **INTERNATIONAL CONFERENCE ON MULTIPHYSICAL INTERACTION AND ENVIRONMENT**, Vinh Long Province, Vietnam
<http://www.icmine.org> – **EE+E -presentation**

EE+E - Publications

EE+E recently published books 7 - 11 of the scientific series “Texts on Environmental Engineering + Environment”. The books highlight results of the R&D project IWRM-Vietnam and focus on the Integrated Water Resource Management at river basin level in Vietnam on the example of three river basins (Red River, Dong Nai River, Cuu Long).

book 07 Stolpe, H.; Borgmann, A.; Führer, N.; Greassidis, S.; Jolk, Ch.; Zaun, S.; Zindler, B. (2013): IWRM Atlas, Planning Maps and Tables for three project regions in Vietnam. ISBN 978-3-89966-547-5

- book 08 Stolpe, H.; Borgmann, A.; Führer, N.; Greassidis, S.; Jolk, Ch.; Zaun, S.; Zindler, B. (2013):** Tập bản đồ IWRM. Sơ đồ, mô hình, bảng biểu lập cho 3 khu vực dự án.
ISBN 978-3-89966-548-2
- book 09 Stolpe, H.; Borgmann, A.; Führer, N.; Greassidis, S.; Jolk, Ch.; Zaun, S.; Zindler, B. (2013):** Method Handbook for IWRM in Vietnam on River Basin Level.
ISBN 978-3-89966-549-9
- book 10 Stolpe, H.; Borgmann, A.; Führer, N.; Greassidis, S.; Jolk, Ch.; Zaun, S.; Zindler, B. (2013):** Methodenhandbuch für das IWRM in Vietnam auf Flusseinzugsgebietsebene.
ISBN 978-3-89966-550-5
- book 11 Stolpe, H.; Borgmann, A.; Führer, N.; Greassidis, S.; Jolk, Ch.; Zaun, S.; Zindler, B. (2013):** Sổ tay phương pháp cho Quản lý tổng hợp tài nguyên nước Việt Nam ở cấp độ lưu vực sông.
ISBN 978-3-89966-551-2

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**EE+E Environmental Engineering+Ecology**

**Research, Consulting, Planning, Teaching, Capacity Development**

Environmental System Analysis  
 Water System Analysis  
 Environmental Planning  
 Surface Water Management  
 Groundwater Management  
 Integrated Water Resources Management  
 Waste Management  
 Environmental Impact Assessment (EIA)  
 Mining and Environment  
 Harbor and Environment  
 Tourism and Environment  
 Geothermal Energy and Environment

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