

Target Group

- »» Professionals and scientists related to water resources and river basin management
- »» Decision and policy makers related to Water resources and River basin management

General Information

The need for practical training related to water resources in South East Asian countries will grow in the coming years and both society and governments are getting more aware of the emerging water related problems in their countries. Hence the overall goal of the Training workshop is to contribute to the education of experts in the field of water resources sciences and management. The value of well presented water related information is explained next to tools for Water Monitoring, Hydrological Modelling and Data Management.



Sandy Weir at a Tributary of the VGTB, Measurement of Return Flow from Irrigation, Vietnam, (ITT)

Venue and Date

Central Vietnam Academy for Water Resources CVAWR
132 Dong Da, Hai Chau, Da Nang, Vietnam
14th - 17th October 2014

Course Fee

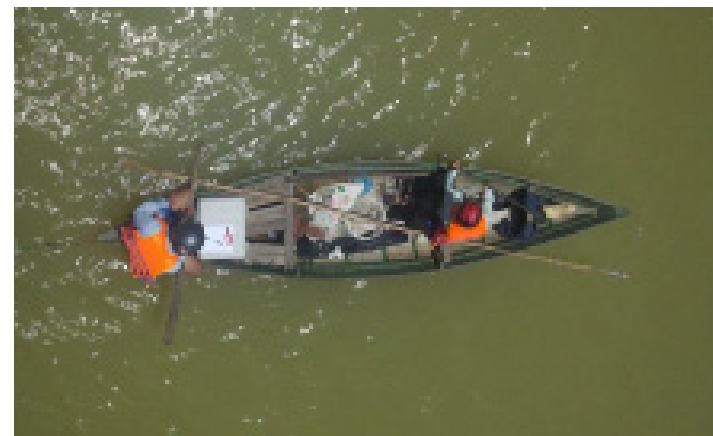
4.000.000 VND
Promotion offers for every group of 3 participants from the same organization/agency: 10% discount for the 2nd participant, 20% discount for the 3rd participant.

Organizer

Institute for Technology and Resources Management in the Tropics and Subtropics ITT - Cologne University of Applied Sciences,
Prof. Dr. Lars Ribbe
Vietnam Academy for Water Resources - VAWR,
Prof. Dr. Nguyen Tung Phong, Vice director

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Postgraduate training course on

Monitoring, Information and Modelling for River Basin Management

14th – 17th October 2014
Central VAWR, Da Nang, Vietnam

The symposium and the training is supported by:



RTC

Continuing Education
for Development.

Background

Growing population, economic development and climate change are increasing the challenges for sustainable water resources management. Hydrological risks are expected to significantly increase in SEA as confirmed by recent reports of IPCC (2014) and IPCC-SREX (2012). Education and training at all levels play an important role as water professionals need to understand the fundamentals of water related information to contribute to a sustainable decision making process. Understanding the origin and generation of reliable hydro-meteorological and water quality data is indispensable for modeling the hydrological conditions and for water management. Relevant skills related to monitoring, modelling as well as to adequate storage, transfer, analysis and visualization of data are of utmost importance for water system understanding, regional and inter-sectoral cooperation and scenario development.

Objectives

The training course has the following objectives:

- »» Provide an insight in key aspects of an integrated river basin management to water related professionals and scientists
- »» Teach key aspects about monitoring, information and data management and hydrological modelling



Water level measurement in the VGBT (ITT)

Key topics

Monitoring — Information Management — Modelling

1. River basin assessment and management
2. Optimized strategies for monitoring climate, discharge and water quality on river basin level
3. How to apply the optimal hydrological modelling approach for river basin assessment and management
4. Value of water related information, data management + software

Trainers

The lecturers are professors and professional experts from:

- Institute for Technology and Resource Management in the Tropics and Subtropics, Cologne, Germany
- Vietnam Academy for Water Resources, Hanoi, Vietnam
- Department of Geoinformatics at the University of Jena

Training methods

- Key lectures
- Exercises and group works
- Excursion: 1 day field trip
- The official language of the symposium and the training course is English. Translation to Vietnamese is provided if requested.



Tributary to Thu Bon River (ITT)

Training Workshop

Tuesday	Wednesday	Thursday	Friday
Introduction and IRBM concept	Field Trip: Monitoring Climate, Water quantity and Water quality	Introduction to hydrological modelling approaches	Training on RBIS Parallel working groups: Data management, modelling, monitoring
Decision making and information		Modelling with J 2000, Mike Basin, HBV, WEAP	Parallel working groups
Lunch		Lunch	Lunch
Introduction to monitoring		Parallel working groups: Data and information management, modelling	Presentation of the results
Working group on field trip preparation		Working groups	

Programme Training Workshop

	Tuesday		Wednesday		Thursday		Friday		
SYMPOSIUM	8 am	Introduction and IRBM concept	8 am	Field Trip: Monitoring Climate Water quantity and Water quality	8 am	Introduction to hydrological modelling approaches	8 am	Introduction to data management: e.g. RBIS	
		Decision making and the role of information				Introduction J 2000, Mike Basin, HBV, WEAP		Parallel working groups: Data management, modelling	
12 am	Lunch				Lunch		Lunch		
TRAINING	1 pm	Introduction to monitoring climate hydrology and water quality				1 pm	Parallel guided working groups: Hydrological modelling	1 pm	Presentation of the working group results
		Working groups for field trip preparation					Applying hydrological models		Conclusions and course evaluation