

Report about Expert seminar and practical training in Hanoi and Hoa Binh province, Vietnam, from 22/11/2016 until 25/11/2016, by project team of the TU Dortmund University, Prof. Dr. Nguyen Xuan Thinh

Expert seminar and Training on “Geographic Information Systems GIS and Monitoring of Mining Activities in the province Hoa Binh”

The seminar provided participants with the knowledge and basic skills of spatial data and geographic information systems for the development and operation of monitoring systems for mining activities and the effects of raw material extraction on the environment. The seminar also gave to the participants an overview of the construction methods of environmental monitoring systems on the basis of using the monitoring data and information in Hoa Binh province.

The total number of participants were 23, consisting of:

- 9 staff members of the Department of Natural Resources and Environment (DoNRE) (2 from the Environment Administration – Chi cuc Bao ve moi trung, 1 from the Center of Natural Resources and Environmental Engineering – Trung tam Ky thuat Tai Nguyen Moi trung, 5 from the Center of Natural Resources and Environmental Monitoring – Trung tam Quan trac Tai nguyen va Moi trung, 1 from the Center of Information Technology – Trung tam Cong nghe thong tin);
- 6 from the Unit of Natural Resources and Environment (Phong Tai nguyen Moi trung) in the districts Tan Lac, Kim Boi, Luong Son, Ky Son, Cao Phong, and the City Hoa Binh;
- 2 from the Department of Construction; 1 from the Management Committee of the Industry Parks of the province Hoa Binh – Ban Quan ly cac khu cong nghiep tinh;
- 1 from the Police Department Crime Prevention Environmental - Phong canh sat phong chong toi pham ve moi trung Cong an tinh;
- 1 from the Hop Tien Company of Trading and Construction;
- 1 from the Trung Son Cement Factory;
- 2 master students from the Faculty of Environmental Sciences, Hanoi University of Sciences.

The application of authentic GIS data about administrative borders, land-use, monitoring stations, and mines in Hoa Binh province, lead to very fruitful exchange and discussions with the participants. A Especially, a lot of interest originated from the participants of DoNRE, DoC, and the Unit of Natural Resources and Environment of the 5 districts. The participants have done the exercises very diligently and with great interest. The trainer could see the high demand for know-how in GIS technology and high investment requirements in GIS software and hardware for management and monitoring of mining activities in the province Hoa Binh.

The seminar is implemented according to the framework of the project “Management of Mineral Resource Extraction in Hoa Binh Province. A Contribution to Sustainable Development in Vietnam” (MAREX), a joint German-Vietnamese research which is sponsored by the German Federal Ministry for Education and Research (BMBF), via the framework of the International Partnerships for Sustainable Technologies and Services for Climate Protection and the Environment (CLIENT) which is part of the FONA program (www.fona.de). For more information please see www.marex-project.de.

Detailed program of the seminar

Tuesday, 22/11/16

Introduction into spatial database, geographic information system GIS, The basic principles for the collection and processing of spatial data in general, and in particular spatial data for the monitoring of mining activities and impacts on the environment; answer questions of participants

Wednesday, 23/11/16

Introduction into open source QUANTUM GIS software and its tools for the collection and processing of spatial data, Practice/exercise on PC/Laptop QUANTUM GIS tools in the collection and processing of spatial data; answer questions of participants

Thursday, 24/11/16

Introduction into QUANTUM GIS tools to query and edit spatial data and mapping methods (lectures) Practice/exercise on PC/Laptop QUANTUM GIS tools query and edit spatial data and mapping methods; answer questions of participants.

Friday, 25.11.16

Fieldwork with a group of training participants in the district Luong Son, Hoa Binh, at the mines of three companies Trung Son, Quang Long, and Song Da in Hoa Binh province and collect coordinate data using GPS. Furthermore, individual meetings were organized with Mr. Duong Thanh Binh, Vice-General Manager of the Trung Son Cement Factory, as well with Mr. Nguyen Van Nien, Director of the Quang Long Company of Construction and Trading.

Impressions



Photo 1: Expert seminar and Training at the Department of Natural Resources and Environment (source: N. X. Thinh)



Photo 2: the mining site of the Lac Mon mining company in Trung Son commune (source: N. X. Thinh)



Photo 3: Visiting mining site of the Quang Long mining company in Hoa Son commune (source: N. X. Thinh)

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