Final report on the project

AKTION **69p4**

***“Soil erosion control and organic carbon sequestration”***

Czech partner:

Department of Drainage Irrigation and Landscape Engineering

Faculty of Civil Engineering

CTU in Prague

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Austrian partner:

Department of Water, Atmosphere and Environment,

Institute of Hydraulics and Rural Water Management

University of Agricultural Sciences (BOKU) Wien

Andreas Klik Prof., Dipl.Ing. Dr.

 The topic of the project for 2014 had been at first exchange visit of both teams, to coordinate ongoing research projects, cooperation and to prepare the intensive student courses with duration one week each (at CTU Prague and at BOKU Wien) and at second, intensive common student courses itselves.

 Within the project, both planned courses were realized in planned duration and terms, just with increase of number of participants at Austrian side, without increasing of planned costs. Concerning of the staff visits also some partial changes had been adopted, mainly in terms of the visits. The organizers succeeded and saved part of the money, mainly due to they have got a significant credit for accommodation prices in Prague, in comparison to originally announced ones and also reduction of price of bus tickets compared to train, which was originally planned. Also, after agreement with Austrian partner, allowances for students in Prague was reduced significantly. Due to this fact, the number of Austrian participants of the course could be increased significantly (40 students compared to 25 planned).

**The detailed specification of the activities and costs follows:**

***I. part of the course had been held at BOKU Wien under the title “Applieed soil erosion research methods“ during 2. – 7.11.2014 with following program:***

2.11.2014 – arrival of the participants, welcome

3.11.2014 – introduction, general methodological presentations and lectures

4.11.2014 – modeling of erosion processes in soil laboratory

5.11.2014 – field trip to experimental plots, presentation of soil conservation technology

6.11.2014 – calculation of measured results, statistical evaluation of measured data

7.11.2014 - final discussion, conclusion, finishing of the course, departure of the participants

There were in total 23 students and 4 teachers participating at the course – from the Czech Republic 13 students and 2 teachers (Doc.Dr.Ing. Tomáš Dostál a Ing.David Zumr, Ph.D.) and from Austria 10 students and 2 teachers (Prof. Dr. Andreas Klik a Dr.Gemma Guzmán).

***II. part of the course at CTU in Prague under the title „ Assessment of soil erosion and associated soil carbon losses and evaluation of effective protection measures “ had been held on 9. – 13.11.2014 with following program:***

9.11.2014 – arrival of the participants

10.11.2014 – introduction lectures, basics of computer modeling

11.11.2014 – sediment volume in the water reservoir assessment using GIS technology

12.11.2014 – sediment transport from the watershed assessment, using GIS technology

13.11.2014 - measurement on the laboratory rainfall simulator, results assessment, final discussion, conclusions, departure of the participants

There were in total 50 students participating at the course and 6 teachers – 10 students and 5 teachers (doc.Dr.Ing. Tomáš Dostál,doc. Ing. Josef Krása Ph.D., Ing.Miroslav Bauer, Ing.Tomáš Laburda a Ing. Pavla Schwarzová Ph.D) from the Czech Republic and 40 students and 2 teachers from Austria (Prof. Dr. Andreas Klik, Dr.Gemma Guzmán). The number of Austrian students has been increased from planned 25 to 40, due to very high interest at BOKU to take a part at the course. The number of participants from Austria has been increased due to the fact, that cheaper accommodation have been provided with university facilities and some funds were saved also from travel costs of Czech group to the course in Austria, where cheaper train has been used. Also, in agreement with recommendation of AKTION board and in agreement with Austrian partner, daily allowances of the students were reduced to symbolic amount 277,- CZK/week.

 At the end of common courses the participants obtained certificates, which approved, that students passed intensive course, held under AKTION project 69p4, with declaration of obtained ECTS points. The sample of the certificate is enclosed. Several evaluation of the course in Vienna by Czech students is also enclosed.

Directly after the course in Prague, first visit of Prof.Klik from BOKU in Prague was performed. The goal of the visit has been preparation of further AKTION course and also assessment of common experiments for publication. Duration of the visit was 3 days (14. – 16.11.2014).

Further, two Czech ČVUT staff visited BOKU Wien (3. – 6.12.2014) with duration 4 days (T.Dostál, J.Krása). The main goal of the visit was to continue in preparation of common publication and common project proposal for agencies GAČR/FWF and also calibration of rainfall simulator device for next common measurements. Due to transfer of heavy experimental setup, two personal cars had to be used.

Last visit of year 2014 was visit of Austrian staff (Prof.Klik) in Prague – for 3 days (9. – 11.12.2014). During this visit, evaluation of common measurements and planning of common cooperation continued and also, evaluation of last course in Prague was provided, due to significant increase of number of participants. The accommodation of visitor has been provided without financial requirements.

 Allocated budget has been used during 2014 in agreement with project proposal and has been spent fully. After final processing of all travel expenses, accommodation and allowances, there was rest of 7.341,- CZK. This funds were used for purchasing of equipment for presentation (2 flipcharts) and common office material (paper, toners, flash disc), consumed in relation with course in Prague and will be used also for courses in next years.

 All the invoices are stored at the economic department of CTU Prague. Regardless of relatively significant changes in project organization and general enlargement of the project`s goals, the expenses have not been exceeded at all.

Prague 20. 1. 2015

Doc.Ing.Dr.Tomáš Dostál