

BASIC INFORMATION ON SUB-PROJECT

NAME OF PROGRAMME/FUND	Scholarship Fund - Sciex NMS ^{ch}
RESEARCH FIELD AND OTHER RESEARCH FIELDS INVOLVED (if applicable)	Engineering Sciences, Environmental Sciences
TITLE OF THE SUB-PROJECT	Quantification of the climate change impacts on hydrological processes in small catchments (QUACCI-HYSC)
REGION OF THE CZECH REPUBLIC (according to the location of the home institution)	Prague
GRANT AMOUNT SPENT	29 786,75 CHF
INTERMEDIATE BODY	Swissuniversities
HOME INSTITUTION	CTU Prague Dept. of Irrigation, Drainage and Landscape Engineering
HOST INSTITUTION	Zurich University, Department of Geography
NAME OF THE FELLOW	Luděk Strouhal

ABSTRACT OF THE SUB-PROJECT

At present the branch of study of Junior Researcher at his home institution is modelling of rainfallrunoff processes in small catchments using conceptual as well as physically-based distributed models and their calibration and validation. During the stay in Zurich the Fellow will learn the methods of quantification of hydrological processes used in Switzerland. In return he will apply some models used in Czech Republic in the Swiss conditions and compare the availability and quality of inputs required for computation (Czech Republic comparing with Switzerland) as well as the characteristics of outputs from different models.

The merits of Fellow's work at the host institution will be focused on the methods of quantification of retention in small catchments and estimation of climate change impacts on the catchment's hydrology. With the assistance of host institution, where the research in this area is already maintained, he will learn the results reached at this institution and the main problems and trends in research in the world. The Fellow will participate in the catchment's hydrology research both by hydrological modelling and experimental research.

The Fellow will apply useful skills gained at the host institution in his own work – design and assessment of compensation measures against impacts of hydrological extremes in small catchments.

MAIN RESULTS

DATE OF REALISATION OF THE FELLOWSHIP

1.11.2011 - 30.4.2012

MORE INFORMATION ON THE PROGRAMME

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