

SHORT TERM SCIENTIFIC MISSION

The morphology, growth pattern, stem quality of multi-stemmed beech (*Fagus sylvatica*) trees in coppice forests

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STSM Scientific Report

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STSM Topic: EuroCoppice

COST Action: FP 1301

Period : from 2015-01-16 until 2015-03-16

Purpose of the STSM

This STSM was focused on increasing the know-how on coppice forests in particular the morphology, growth pattern, stem quality of multi-stemmed beech (*Fagus sylvatica*) trees in coppice forests in transition to high forest of Black forest, in high elevation montane beech forest of Vosges Mountains (Alsace, France), compared to similar forests in Montenegro.

Activities

During my stay in Faculty of Environment and Natural Resources, Chair of Site Classification and Vegetation Science, Albert-Ludwigs-University-Freiburg_Germany, (from 2015-01-16 until 2015-03-16), I was introduced to with the situation and the way management of coppice forests in the Black Forest and the Vosges Mountains (Alsace, France).

I received access to the library where I spent time in reading literature in English about forest ecology, forestry in general and coppice beech forests in particular – analyzing the growth pattern, stem morphology and therefore stem quality of multi-stemmed beech trees in previous coppice forests of mountain ranges in Central Europe (Germany, France), compared to SE Europe (Montenegro), and their site demands.

Studied the basic knowledge of how to analyse the sites, species compositions, structures, habitat qualities of coppice forests.

Studied literature in general which was not available in Belgrade or Montenegro, because in Belgrade access to "costly journals" is more difficult.

I also learned about function of coppice forests as habitats, including different microsites on tree trunks, stem base, stem surfaces, which are colonized by different moss and lichen communities, and deadwood components.

This helped me to learn how these are managed coppice forests in in the Black Forest and the Vosges Mountains (Alsace, France), to learn something new and learn some new examples of good practice, which will be able to apply in its further work in their own country as well as my further scientific development.

I wrote a report on the literary study of coppice forests of beech, compared to similar in Montenegro.

Studied to learn new methods with respect to:

statistics ("R")

Pedology - viewpoint of the German pedology (Dr. U. Steinrücken)

Climatology, emphasis water balance model and drought

I received feedback upon my ("already existing") PhD-thesis concept that this feedback was not available in such detail in Serbia, because the 2 supervisors do not work interdisciplinary (soil - climate - vegetation).

I attended a lecture by Prof.Dr, Albert Reif, held on the topic coppice forests, water capacity, water balance and climate change.

I was also on the field with Prof.Dr, Albert Reif, where we visited coppice forests of sessile oak, beech coppice forests were under snow, not accessible. That's where the professor about the situation as well as the methods applied in the management of these forests.

Received inspiration for theoretical (scientific) and practical approaches in forest sciences in general.

I realized how important it is to learn English and that I really have start to pratise it in reality.


Great experience for me to exchange experiences and literature of coppice forests and forestry in general with professors and students at the Albert-Ludwigs-University-Freiburg_Germany.

Future collaboration with host institution

I am satisfied with the collaboration that I could achieve during the time of my visit. The visit of my STSM has elapsed with good work conditions due to the collaboration of the Host Institute as they have provided me in every moment material, help, statistical program (R) and other required information. Particularly I am grateful to Prof. Dr. Albert Reif, I would like to express my sincere thanks to the COST Action and to my hosts.

The content of the report of Srdjan Pejovic with respect to his visit to the University of Freiburg is correct and summarizes his activities.

Freiburg, 15.4.2015



Prof. Dr. Dr. h.c. Albert Reif