



Report on Guest lecturers Kavarna, Bulgaria, June 24th 2024





Project information

Project title	Agroforestry practices in West Balkan for sustainable development: weaknesses and strengths
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GUEST LECTURES AGENDA

Monday 24 th June 2024	
	Lecture 1, Jelena Beloica
	Lecture 2, Anton Brenko
	Lecture 3, Ivana Zegnal
14:45 – 18:15 h	Lecture 4 Anton Brenko
	Lecture 5 Aleksandar Baumgertel
	Lecture 6 Monika Tkalec Kojić
	Discussion and closing the meeting

Participants from 5 partner institutions - University of Belgrade Faculty of Forestry, Serbia (UB); University of Montenegro Biotechnical faculty (UOM); University of Forestry from Sofia, Bulgaria (UFS); Josip Juraj Strossmayer University of Osijek Faculty of Agrobiotechnical Sciences (UNIOS) and Croatian Forest Research Institute from Jastrebarsko, Croatia (CFRI) were present at the guest lectures. The Guest lectures were attended by 16 professors and 5 students.

The Guest lectures as part of the project Agroforestry practices on West Balkan: weaknesses and strengths – AGFORWEB were held on Monday, June 24th.

The first planned Guest lecture of the day started at 14:45 pm. Dr. Jelena Beloica from University of Belgrade held the presentation titled 'Supporting biodiversity outside protected areas the role of traditional agro-ecosystems'. Dr. Beloica emphasized, that one of the main tasks of agroforestry is the preservation of bio- and cultural diversity on several scales and levels, from landscape to species and genetic level. One of the possibilities and areas to support biodiversity outside of protected areas is buffer zones. To realize the full capacity of buffer zones for the promotion and support of biodiversity, it is necessary for these areas to involve laws or regulations to promote appropriate land uses and solutions that are close to nature and compatible with protection policies. It was indicated that the project 'Biodiversity and Water Protection Lake Palic and Lake Ludas'; is an example in improving the state of biodiversity. The Guest lecture lasted 30 minutes, and it was followed by 5 min discussion and questions by the participants. The presentation ended at 15:20 pm.



The second Guest lecture of the day started at 15:20 pm. Anton Brenko from **the** Croatian Forest Research Institute held the presentation titled 'Truffles– from seedlings to orchard'. At the beginning Anton Brenko presented the evolution of underground mushrooms, truffles and their natural symbionts. Then he described in detail the inoculum preparation as well as the technology of truffles orchard establishment (choosing the location, choosing to host/inoculum combination, planting plan, irrigation, fencing and mechanical protection), the maintenance of truffles orchards and possibilities to improve the fructification. The Guest lecture lasted 30 minutes, and it was followed by a 5 min discussion and questions by the participants. The presentation ended in 15:55 pm.



The third Guest lecture of the day started at 15:55 pm. Ivana Zegnal from Croatian Forest Research Institute held the presentation titled "Mycorrhizal colonization". At the beginning Ivana Zegnal presented information about what is the mycorrhiza and the conditions for the existence of mycorrhiza as well as the two main types of mycorrhizas. It described the inoculation process and the inoculation of *Quercus robur*. It was stated that ectomycorrhiza is important for tree species and examples were given of which tree species it occurs in. A microscopic characteristic of the ectomycorrhiza was also made. The Guest lecture lasted 30 minutes, and it was followed by a 5 min discussion and questions by the participants. The presentation ended at 16:30 pm.



The fourth Guest lecture of the day started at 16:30 pm. This was the second lecture of Anton Brenko from the Croatian Forest Research Institute. He held the presentation titled “Truffle sector in Croatia – a case study”. The lecture’ focus was on the regulatory framework - Regulations and clauses in the allowing of the collection of truffles. Maximum quantities and regulated seasons for truffle hunting were noted. Year-based licenses and obligations for truffle hunting also were presented. The Guest lecture lasted 30 minutes, and it was followed by a 5 min discussion and questions by the participants. The presentation ended at 17:05 pm.



The fifth planned Guest lecture of the day started at 17:10 pm. Aleksandar Baumgertel from the University of Belgrade held the presentation titled "GIS application in agroforestry". Aleksandar Baumgertel provided brief information on the main agroforestry systems, as well as a definition of Geographic Information Systems (GIS). The possibilities for the application of GIS in agroforestry were indicated, more specifically the use of the Google Earth Engine (GEE) platform and remote sensing methods. The Guest lecture lasted 30 minutes, and it was followed by a 5 min discussion and questions by the participants. The presentation ended at 17:45 pm.



The last planned Guest lecture of the day started at 17:45 pm. Assist. Prof. Monika Tkalec Kojic from Josip Juraj Strossmayer University of Osijek, Croatia held the presentation titled “Medicinal plants under forest canopy in Croatia”. Monika Tkalec Kojic presented information about the origin, parts used, harvest, habitat and substance used for followed medicinal plants: *Rosa canina*, *Allium ursinum*, *Valeriana officinalis*, *Artemisia absinthium*, *Pulmonaria officinalis*, *Calluna vulgaris*, *Equisetum arvense*, *Althaea officinalis*, *Mentha arvensis*, *Angelica sylvestris*. The Guest lecture lasted 30 minutes, and it was followed by 5 min discussion and questions by the participants. The presentation ended at 18:15 pm.

The list of attendees is attached below.



ATTENDANCE LIST

No.	Name	Organization
1.	Sara Lukić	University of Belgrade
2.	Ivana Zegnal	Croatian Forest Research Institute
3.	Milić Čurović	University of Montenegro
4.	Anton Brenko	Croatian Forest Research Institute
5.	Vladimir Margeta	Josip Juraj Strossmayer University of Osijek
6.	Jelena Lazarević	University of Montenegro
7.	Ana Topalović	University of Montenegro
8.	Milena Đokić	University of Montenegro
9.	Monika Tkalec Kojić	Josip Juraj Strossmayer University of Osijek
10.	Ljudevit Balić	Josip Juraj Strossmayer University of Osijek
11.	Vladimir Ivezić	Josip Juraj Strossmayer University of Osijek
12.	Teodor Nedelin	University of Forestry, Sofia, Bulgaria
13.	Engin Shukriev	University of Forestry, Sofia, Bulgaria
14.	Orhan Mechmedov	University of Forestry, Sofia, Bulgaria
15.	Jelena Beloica	University of Belgrade
16.	Martin Antonov	University of Forestry, Sofia, Bulgaria
17.	Ivan Kirov	University of Forestry, Sofia, Bulgaria
18.	Krasimira Petkova	University of Forestry, Sofia, Bulgaria
19.	Georgi Kostov	University of Forestry, Sofia, Bulgaria
20.	Aleksandar Baumgertel	University of Belgrade
21.	Nasko Iliev	University of Forestry, Sofia, Bulgaria



AGRO FORESTRY PRACTICES IN WEST BALKAN
FOR SUSTAINABLE DEVELOPMENT:
WEAKNESSES AND STRENGTHS



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