



GLOBE Games 2022

Field workshops

SATURDAY, 28. 5. 2022

LONG WORKSHOPS 9 AM – 1 PM

Miraculous spring changes around the Devil's Rock *(in Czech, with translation to English)*

At the end of May, spring is at its height and the vegetation is constantly changing before our eyes. Which species will already have fully developed leaves? Which plants will bloom? And will we find differences in the development of vegetation at the edge and inside the forest? We can compare our results with the long-term 30-year average that we have available for this location! The cherry on the top of the cake will be a special phenological quiz. Come and join the workshop with **Lenka Hájková** from the Czech Hydrometeorological Institute.

There is more in the forest than mushrooms *(in Czech, with translation to English)*

What secrets do forests around Zbiroh hide? Will you find them also in the forest nearby your place? Come and explore all what can be found, sniffed and tasted in the forest at the end of spring. You will also find out how not to get lost in the forest, which plant species are healing (and how to collect and process them) and which, on the contrary, are poisonous. Your guide will be **Michal Plundra**, an enthusiastic gardener and permaculturist.

Microplastics in the water *(in Czech, with translation to English)*

We drain the water from the washing machine or dishes into the sewage. What happens to the plastic particles (from the cleaning sponge or your fleece sweatshirt) in it? Will wastewater treatment plants catch them or do they travel to our rivers? Will they settle to the bottom of the river or will we find them in the water when we filter it? And how about the ponds around Zbiroh? Will we find microplastics in them? Can we find out from which object were they released? Come and explore these questions with **Alexander Prokop** from Technecia in Pardubice.

SHORT WORKSHOPS 9 AM – 11 AM

Let's create musical instruments from natural materials! *(in Czech, with translation to English)*

Nature is an inexhaustible source of inspiration, also for the world of music. Music often mimics the sounds of nature, and most of the musical instruments are made from natural materials. In this workshop we will create a rainstick from the stem of the Asian knotweed plant, an invasive plant in the Czech Republic. And that's why it certainly won't matter if we use it to make a musical instrument.



The workshop will be led by **Lukáš Kamas**, from ALCEDO – Center for Leisure and Swimming School Vsetín.

Woodpeckers are not the only tree doctors *(in English)*

Scientists often need a sample of sunlit branch in order to check the health of a tree. How do you get to the top of a high fir tree if you have neither wings nor a crane and you don't want to damage the tree? During the workshop you will get to the treetop using ropes and loops under the guidance of the tree climber **Jiří Matucha**. You will collect a sample of leaf and check the health of the tree in the field laboratory. And how does climate change affect the health of the trees? You will find it out from **Zuzana Lhotáková** from the Department of Experimental Plant Biology at Charles University in Prague. **!!! Participants must use all the safety and security equipment provided and attend the workshop at their own risk!!!**

SHORT WORKSHOPS 11 AM – 1 PM

The natural wealth of the Křivoklátsko Protected Landscape Area *(in Czech, with translation to English)*

Almost two thirds of the Křivoklátsko Protected Landscape Area and Biosphere Reserve are covered by deciduous and mixed forests. To date, more than 1,800 species of vascular plants and at least 52 species of trees have been preserved. There are around 120 species of birds nesting here and the area is home to a large number of other animal species, many of which are on the red list of rare and endangered species. Come for a “scientific” walk to learn more about this beautiful area! Your guide will be **Pavel Moucha**, forester from the Křivoklátsko Protected Landscape Area.

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Aquatic invertebrates as indicators of the quality of the aquatic environment *(in English)*

What kind of invertebrates live in the water around us? And how do they show the quality or disturbance of the aquatic environment? Come and try sampling and identifying invertebrates and find out what does their presence tell us about the quality of the water. The workshop will be led by Associate Professor **Martin Rulík** from the Department of Ecology and the Environment, Faculty of Science of the Palacký University in Olomouc.



AFTERNOON WORKSHOPS AND DISCUSSIONS

The secret of the soil under our feet (3 PM – 6 PM, in English)

What can one find out from the soil under one's feet? How did it originate, what is it suitable for and how can we protect it? Is climate change also affecting our soil? And can the soil somehow affect the climate? Join the workshop and "dig" into these questions with **Monika Hradilová**, an expert in GLOBE pedology.

Humans and their four-legged friends - what can they achieve together? (3 PM – 4:30 PM, in Czech, with translation to English)

Mushing is a sport in which humans form teams with dogs and together they overcome tracks of various lengths. You will find out more about this sport from **Mrs. Evženie Brzková** from J. V. Sládek Elementary School Zbiroh, who loves dogs, nature, and most importantly she is not afraid to get dirty! At the workshop you will meet her four-legged friends and co-workers, the husky dogs, and you can also look forward to a demonstration of mushing.

Exploring nature with GLOBE Observer and other Apps (3 PM – 5 PM, in English)

Clouds, land cover, trees...choose what you would like to observe with the **GLOBE observer** app! Are you fascinated by time lapse videos? How about creating your own about a tree with the help of the **Grow app**? Watch how your tree wakes up in the spring or slowly becomes dormant in autumn. While having fun, you will also help scientists by complementing NASA satellite observations. Join the workshop with **Dana Votápková** from the GLOBE Europe and Eurasia Region Coordination Office.