#### **UFZ - Research Green Roof**



Photo: The extensive green roof at the UFZ Research Green Roof in October 2021 Author: Lucie Moeller, UFZ

More information on the UFZ Research Green Roof: http://www.ufz.de/forschungsgruendach

Questions to UFZ Research Green Roof: forschungsgruendach@ufz.de



### Research green roof at the Helmholtz Centre for Environmental Research - UFZ







Research partners:







Praxis partners:







### 3<sup>rd</sup> Leipzig Green Roof Academy

On September 16, 2021, the award ceremony of the 3<sup>rd</sup> Leipzig Green Roof Academy took place in the New City Hall of Leipzig. Fifteen students from different disciplines developed in four groups concepts for a green roof system on the future high school building in Wiederitzsch and presented them at the award ceremony.

We would like to express our sincere thanks to the practical partners (companies ZinCo, OptiGrün and Leipziger Wasserwerke) for their active support in the form of an advisory role for the students during the creation of their designs and their contribution in the form of prize money. Furthermore, we would like to thank the association Freunde und Förderer des UFZ e.V. for their uncomplicated support in transferring the prize money to the winners. A big thank you also belongs to the Office for Environmental Protection of the City of Leipzig for co-organizing the Academy.



Photo: Timo Böttcher

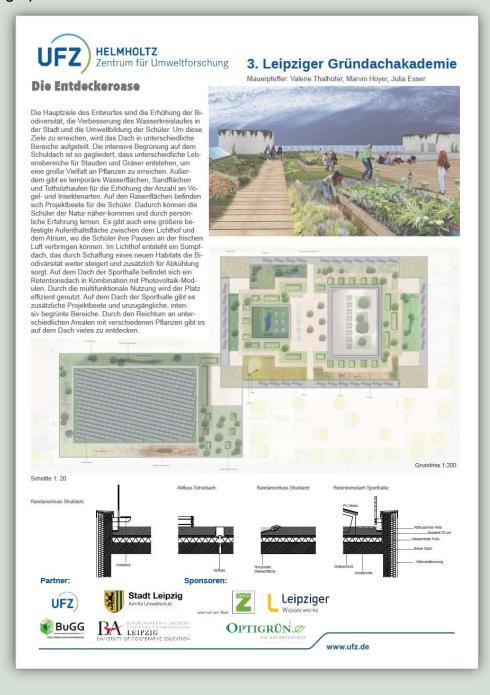
The first prize of 500 EUR went to a team of students Anna Posner (TU Dresden), Charlotte-R. Müller, Johann Rendler and Maria Osselt (Leipzig University of Cooperative Education), whose design entitled MULTI-USE was convincing. The extremely well thought-out and integrated roof concept also picks up on the local surroundings of the new school building in terms of design, in that rail-like pathways extend along the gravel and pebble paths of the roof in a bird's-eye view in reference to the railroad culture in the surrounding area. Additionally, seating was designed for the entire roof area in the form of benches with a rail system. This also allows for the integration of an "outdoor classroom" into the green roof concept.



Second place (450 EUR) was won by Megane Kasko (TU Dresden), Hanna Mayer (University of Leipzig), Maxi Klinner and Maximilian Wagner (Leipzig University of Cooperative Education) with their project idea based on the divided use of the high school roof as a teaching and break area with a cleverly styled replacement of the atrium with a fully glazed staircase, combined with a non-accessible biodiversity roof. This portion features structurally rich features in the form of water pools, stones, and dead wood for increased biodiversity. The inner courtyard is to be used for the cultivation of old fruit varieties.



Third prize (400 €) went to Valerie Thalhofer (University of Leipzig), Marvin Hoyer (HTWK Leipzig) and Julia Esser (TU Dresden). Their "ENTDECKEROASE" (Oasis of discovery) aimed to increase biodiversity, improve the water cycle in the city and educate students about the environment. The area on the high school roof was surrounded by a wooden walkway. Beds with grasses, perennials, and woody plants are planned for the edges of the roof, and project beds for students are located on a grassy area on the inside of the circular walkway. A larger paved staging area between the atrium and the atrium is provided for student recreation. A marsh plant canopy is planned for the atrium to provide necessary cooling for the surrounding spaces in the summer.



An ambitious concept entitled "HIER UND JETZT" (Here and now) was presented by students Aylin Aksu (TU Dresden), Jana Tietze (Leipzig University), Josefa Lehmann (Leipzig University of Cooperative Education), and Tobias Hartmann (Magdeburg-Stendal University of Applied Sciences). The fourth prize was endowed with 350 EUR. The proposed green roof is indeed multifunctional - the diverse functions range from food production for the school kitchen in seven beds and in the greenhouse with aquaponics with fish farming and plant cultivation, to complete retention of rainwater and generation of energy using thin-film solar modules. Retreat space for insects and birds has also been thought of. For this purpose, a biodiversity roof is to be built on the sports hall. Particularly noteworthy is the idea of designing the atrium with above-ground artfully staged cistern "Tank Tree" with addition and removal of water in circulation - made of acrylic glass and with LED light play.

