Dr. Mohsen Makki

Faculty of Mathematics and Natural Sciences
Department of Geography
Working Group Soil Geography and Geomorphology



Expertise
PD Dr. Mohsen Makki and his research group Soil Geography and Geomorphology have been dealing with soil-forming processes and properties of soils in urban areas for about two decades.

The scope of work includes all types of anthropogenically influenced sites (e.g. military sites, airports) that have been transformed by humans in the course of urban development, and natural soils. A main focus has been and will be the integration of the results of the soil investigations into soil protection concepts and landscape design measures with regard to climate change and other urban and landscape planning development concepts.

The working group continues to participate in geoarchaeological projects and supports non-university partners in the development of systems as well as substrates for vertical farming and green roofs. Regional focal points of research are the metropolitan region Berlin/Brandenburg, Italy, West and Central Asia.

Scientific Services
- Soil-sedimentological and geomorphological expertise
- Soil-scientific site evaluation of urban and rural soils according to BBodSchG and BBodSchV
- Geoarchaeological site evaluation
- Creation of soil experience paths
- Creation of soil substrates for vertical farming and indoor farming
- Grain size analysis by means of Beckman-COULTER and Köhn apparatus
- Standard soil analyses (humus content, pH-value, lime content, electrical conductivity)
- Temperature-dependent determination of carbon content by loss on ignition
- Measurement of nutrient and heavy metal contents in soils and sediments according to DIN and VDLUFA, measurement by ICP-OES

Testimonials
- Soil science investigations in the Berlin/Brandenburg metropolitan region (Tempelhof Airport, Tegel Airport, Parks Range, Teufelsberg, etc.)
- Development of a pedological mapping guide for the state of Berlin
- Preparation of pedological reports for the Berlin Senate Administration
- Site analyses for public authorities and associations

Topics / Trends
Climate / Climate Change
Land Use
Smart City

Industries
Agriculture & Food
Education
Professional Services & Consulting
Administration

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