

Candidate supervisor's information summary form

Name and surname, degree, title: Edyta Hewelke , PhD with "habilitation"	
Discipline/ disciplines of science	Environmental Engineering, Mining and Energy
Professional development (degrees and titles) in chronological order	1996 - Master of Science in Engineering; 2002 - Doctor of Agricultural Sciences in Environmental Engineering; 2019 - habilitation, Engineering and Technology, Environmental Engineering,
Most important publications/patens over the last 3 years (maximum 10)	<p>Hewelke, E., Górską, E. B., Gozdowski, D., Korc, M., Olejniczak, I., & Prędecka, A. 2020. Soil Functional Responses to Natural Ecosystem Restoration of a Pine Forest Peucedano-Pinetum after a Fire. <i>Forests</i>, 11(3), 286;</p> <p>Hewelke, E., & Gozdowski, D. 2020. Hydrophysical properties of sandy clay contaminated by petroleum hydrocarbon. <i>Environmental Science and Pollution Research</i>, 1-10;</p> <p>Olejniczak I., Górską E.B., Prędecka A., Hewelke E., Gozdowski D., Korc M., Panek E., Tyburski Ł., Skawińska M., Oktaba I., Boniecki P., Kondras M., Oktaba L. 2019. Selected Biological Properties of the Soil in a Burnt-Out Area under Old Pine Trees Three Years after an Fire. <i>Annual Set the Environment Protection (Rocznik Ochrona Środowiska)</i>, 21: 1279-1293,</p> <p>Hewelke, E. 2019. Influence of Abandoning Agricultural Land Use on Hydrophysical Properties of Sandy Soil. <i>Water</i>, 11(3), 525,</p> <p>Górską E.B., Olejniczak I., Gozdowski D., Panek E., Kondras M., Oktaba L., Prędecka A., Biedugnis S., Boniecki P., Tyburski Ł., Oktaba I., Skawińska M., Dobrzyński J., Jankiewicz U., Hewelke E., Kaliszkiewicz A. 2018. Długoerminowa reakcja mikroorganizmów i mezofauny na pożary gleb leśnych pochodzenia antropogenicznego. <i>Annual Set the Environment Protection (Rocznik Ochrona Środowiska)</i>, 20: 1776-1792.</p> <p>Hewelke E., Oktaba L., Dariusz Gozdowski D., Marek Kondras M., Izabella Olejniczak I., Górską E.B. 2018. Intensity and persistence of soil water repellency in pine forest soil in a temperate continental climate under drought conditions. <i>Water</i> 2018, 10(9), 1121;</p> <p>Oleszczuk R., Zając E., Hewelke E., Wawer K. 2018. Determination of water retention characteristics of organic soils,</p>

	<p>using the indirect filter–paper method. Acta Scientiarum Polonorum. Formatio Circumiectus 17(2): 13–21;</p> <p>Hewelke P., Hewelke E., Oleszczuk R., Kwas M. 2018. The application of pedotransfer functions in the estimation of water retention in alluvial soils in Żuławy Wiślane, northern Poland. Soil Sci. Ann., 69(1), 3 – 10;</p> <p>Hewelke, E., Szatyłowicz, J., Hewelke, P., Gnatowski, T., Aghalarov, R. 2018. The Impact of Diesel Oil Pollution on the Hydrophobicity and CO2 Efflux of Forest Soils. Water, Air, & Soil Pollution, 229(2), 51,</p> <p>Hewelke P., Hewelke E., Szatyłowicz J., Żakowicz S., 2018: Patent nr 228570, the invention “The system for simulating the location of the water table”, scope of patent protection in Poland, granted by the Patent Office of the Republic of Poland.</p>
Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order	
Project/grants achievements (from the last 10 years)	<p>2015, 2016, 2017, 2018: „Physical and chemical properties, diversity of plants, fungi as well as microfauna in the burnt area in Palmiry- Kampinos Forest, preliminary research, Stage I, Stage II, Stage III”, project financed by The State Forests, investigator;</p> <p>2016 - 2021 European COST programme Action CA15206 COST “Payments for Ecosystem Services (Forest for Water)” CA15206, Management Committee Substitute;</p> <p>2015 - 2019 Action COST ES 1406 „Soil fauna - Key to Soil Organic Matter Dynamics and Modelling (KEYSOM)”, Management Committee Substitute</p>
Topic – research problem – for which the candidate supervisor seeks a doctoral student	Expanding the cause-and-effect knowledge of the factors that may change the elements of the water balance in the context of climate warming.
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