

### Candidate supervisor's information summary form

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| Name and surname, degree, title: <b>Edyta Hewelke</b> , 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;<br>2002 - Doctor of Agricultural Sciences in Environmental Engineering;<br>2019 - habilitation, Engineering and Technology, Environmental Engineering,   |
| Most important publications/patens over the last 3 years (maximum 10)  | <p>Hewelke, E., Weber, J., Gozdowski, D., Hewelke, P. 2023. Influence of contamination with diesel oil on water sorptivity and hydrophobicity of sandy loam soil. <i>Land Degradation &amp; Development</i>.</p> <p>Hewelke, E., Zaniewski, P. T., Zaniewska, E., Papierowska, E., Gozdowski, D., Łachacz, A., &amp; Górską, E. B. (2023). Does Spontaneous Secondary Succession Contribute to the Drying of the Topsoil?. <i>Forests</i>, 14(2), 356.</p> <p>Hewelke, E., Gozdowski, D., Korc, M., Małuszyńska, I., Górską, E. B., Sas, W., &amp; Mielnik, L. 2022. Influence of soil moisture on hydrophobicity and water sorptivity of sandy soil no longer under agricultural use. <i>Catena</i>, 208, 105780,</p> <p>Mielnik, L., Hewelke, E., Weber, J., Oktaba, L., Jonczak, J., &amp; Podlasiński, M. 2021. Changes in the soil hydrophobicity and structure of humic substances in sandy soil taken out of cultivation. <i>Agriculture, Ecosystems &amp; Environment</i>, 319, 107554.</p> <p>Hewelke, E., &amp; Gozdowski, D. 2020. Hydrophysical properties of sandy clay contaminated by petroleum hydrocarbon. <i>Environmental Science and Pollution Research</i>, 1-10;</p> <p>Hewelke, E., Górską, E. B., Gozdowski, D., Korc, M., Olejniczak, I., &amp; 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> |
| Experience in work with doctoral students (defended doctoral dissertations, doctoral programmes opened) in chronological order |   |

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| <p>Project/grants achievements (from the last 10 years)</p>                                   | <p>2022 - 2025: Soil management effects on soil organic matter properties and carbon sequestration – SOMPACS in EJP Soil, Partner;</p> <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>2021 - 2025: COST Action CA20138 - Network on Water-Energy-Food Nexus for a Low-Carbon Economy in Europe and beyond, Management Committee;</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> |
| <p>Topic – research problem – for which the candidate supervisor seeks a doctoral student</p> | <p>Expanding the cause-and-effect knowledge of the factors that may change the elements of the water balance in the context of climate warming.</p>   |
| <p><u>Contact details:</u><br/>Institute<br/>E-mail address<br/>Tel.</p>                      | <p>Water Center - WULS,<br/>edyta_hewelke@sggw.edu.pl,<br/>tel.: 48 22 5935356</p>  |