

Scientific business card of a candidate for a supervisor

maximum 2 pages – it should be a synthesis of the most important elements of the

Name and surname, degree, academic title:	
Scientific discipline(s)	Civil Engineering, Surveying & Transportation
Professional development (academic degrees and titles) chronologically	<ul style="list-style-type: none"> ➤ M.Sc. in Civil Engineering - Warsaw University of Technology, Faculty of Civil Engineering, ➤ PhD in technical sciences in the discipline of civil engineering - Warsaw University of Technology, Faculty of Civil Engineering, ➤ habilitated doctor – engineering and technical sciences, discipline civil engineering and transport – University of Zielona Góra, Faculty of Civil Engineering, Architecture and Environmental Engineering
The most important publications/patents/ from the last 3 years (maximum 10)	<p>[1] Francke B., Modern waterproofing of buildings. Water-protective protections of underground parts of buildings, monograph, Wydawnictwo Naukowe PWN SA, ISBN 978-83-01-21623-8, Warsaw, 2021,</p> <p>[2] Francke B., Modern waterproofing of buildings. Roofing, monograph, Wydawnictwo Naukowe PWN SA, ISBN 978-83-01-21987-1, Warsaw, 2021,</p> <p>[3] Francke B., Modern waterproofing of buildings. Terraces and balconies, monograph, Wydawnictwo Naukowe PWN SA, ISBN 978-83-01-22063-1, Warsaw, 2022,</p> <p>[4] Francke B., Winkler-Skalna A., Geryło R., The durability of inverted roof insulation kits, article in Archives of Civil Engineering, 01/2024, 100pts,</p> <p>[5] Francke B., Piekarczyk A., Witkowska Dobrev J., Efficiency assessment of horizontal damp proof courses made by chemical injection in wall tests, article in AIN SHAMS ENGINEERING JOURNAL, 100pts,</p> <p>[6] Francke, B.; Szulc, J.; Sieczkowski, J.; Piekarczyk, A.; Dobrev, J.W.; Schabowicz, K. Analysis of Resistance to Wind Suction of Flat Roof Coverings Glued with Polyurethane Adhesives. Materials 2023,140pts,</p> <p>[7] Joanna Witkowska-Dobrev, Olga Szlachetka, Barbara Francke, et al.- Effect of different water-cement ratios on the</p>

	<p>durability of prefabricated concrete tanks exposed to acetic acid aggression, 140pts,</p> <p>[8] Barbara Francke , Anna Szymczak-Graczyk , Barbara Ksit , Jarosław Szulc, Jan Sieczkowski - Influences of a Variety of Reinforcements on the Durability of Reinforced Bitumen Sheets Operating at Variable Temperatures in the journal Energies, (140pts in the database of the Ministry of Science and Higher Education), Energies 2023, 140pts,</p> <p>[9] Michał Szostak, Barbara Francke, Krzysztof Pawłowski, Structure and Environment 2024, vol. 16, (4), pp. 183-193, 40pts</p> <p>[10] Francke B., Witkowska-Dobrev J., The influence of compressibility of asphalt thick-film coatings modified with polymers on the durability of waterproofing layers made of them, Materiały Budowlane, 12/ 2023; DOI:10.1519933.2023.12 – 140 points</p>
Experience in working with PhD students (defended doctorates, initiated proceedings), chronologically	<p>doctoral dissertation of Damian Wojnowski, M.Sc., Eng., entitled "Effectiveness of repairs of concrete structures carried out in conditions of reduced temperature with the use of polymer-cement mortars", completed with a public defense with a positive result, on 14.06.2021, in relation to which I was an assistant supervisor (thesis awarded by the Scientific Council of the Building Research Institute)</p>
Project/grant achievements (from the last 5 years)	-
Thematic scope of the research project for which the PhD student is recruited	Physics of buildings with particular emphasis on the issues of waterproofing of buildings
<u>Contact:</u> Institute Email address Telephone	Institute of Civil Engineering barbara_francke@sggw.edu.pl 601-37-37-17