

## **Fronczyk Joanna**

### **PhD Eng.**



### **Contact**

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### **Education**

- PhD, SGGW in Warsaw, 2008, specialization: Geotechnic
- MS, SGGW in Warsaw, 2003r, specialization: Technology in Environment Protection

### **Didactics**

- [Waste disposals](#)
- [Environmental geotechnic](#)
- [Waste management](#)
- [Groundwater remediation](#)
- [Soil mechanics](#)

### **Fields of Research**

- environmental geotechnic
- migration of pollutants in groundwater
- groundwater remediation

### **List of Publications**

1. **FRONCZYK J.**, GARBULEWSKI K., 2010: PRB – nanotechnology useful for protection of groundwater underneath landfill. Proc. International Geotechnical Conference “Geotechnical Challenges in megacities”, Moscow, vol. 3, pp. 1121-1126
2. **FRONCZYK J.**, BĄKOWSKI J., GARBULEWSKI K., 2010: Charakterystyki wytrzymałościowe zeolitu i mieszanek zeolitowo-piaskowych w przepuszczalnych barierach reaktywnych. (In Polish) "Shear strength characteristic of zeolite and zeolite-sand mixtures in permeable reactive barriers". Scientific Review Engineering and Environmental Sciences, Vol. XIX, No 1(47), SGGW Publishing, Warsaw, pp. 3-12
3. LECH M., GARBULEWSKI K., **FRONCZYK J.**, 2009: Wykorzystanie metody elektrooporowej do badania zdolności sorpcyjnej materiałów reaktywnych. (In Polish) "The use of electrical resistivity method to the sorption studies of reactive materials". Scientific Review Engineering and Environmental Sciences, Vol. XVIII, No 3(45), SGGW Publishing, Warsaw, pp. 3-13
4. **FRONCZYK J.**, GARBULEWSKI K. 2009: Selection of material suitable for permeable reactive barriers in vicinity of landfills. Annals of Warsaw University of Life Sciences – SGGW. Land Reclamation 2009, No 41, pp. 3-9

5. **FRONCZYK J.**, GARBULEWSKI K. 2009: Kryteria doboru materiałów do wykonania przepuszczalnych barier reaktywnych (PBR) w rejonie składowisk odpadów. (In Polish) "Criteria for selection of reactive suitable in PRB at landfill's surrounding". In: E. Dembicki, M.K. Kumor, Z. Lechowicz: Geotechnical and Environmental Problems with Expansive Solis. UTP Publishing, Bydgoszcz, pp. 245-252
6. GARBULEWSKI K., **FRONCZYK J.**, LESZCZYŃSKA M. 2008: Powierzchnia właściwa - podstawowy parametr charakterystyki materiałów reaktywnych. (In Polish) "Specific surface area - m basis parameter of reactive materials characteristics". Scientific Review Engineering and Environmental Sciences, Vol. XVII, No 4 (42), SGGW Publishing, Warsaw, pp. 122-130.
7. **FRONCZYK J.**, GARBULEWSKI K. 2008: Application of POLLUTEv6 program in the interpretation of contaminant transport in PRB. Foundation of Civil and Environmental Engineering, No 12, pp. 21-32.
8. KATZENBACH R., **FRONCZYK J.**, GARBULEWSKI K. 2008: Evaluation of zeolite-sand mixtures as a reactive material towards landfill leachate. 11<sup>th</sup> Baltic Sea Geotechnical Conference 15.-18.09.2008, PG Publishing, pp. 875-882.
9. **FRONCZYK J.**, GARBULEWSKI K., KIEDRYŃSKA L., LESZCZYŃSKA M. 2007: Zastosowanie metody adsorpcji błękitu metylenowego w badaniach powierzchni właściwej wybranych sorbentów. (In Polish) "Application of methylene blue adsorption method in testing specific surface area of selected sorbents". Engineering and Protection of Environment, Vol. 10, No 1, pp. 45-57
10. **FRONCZYK J.**, GARBULEWSKI K., LECH M. 2006: Hydraulic, sorption and resistivity characteristics of zeolite-sand mixture for PRBs. 5<sup>th</sup> ICEG *Environmental Geotechnics* 26.-30.06.06, Thomas Telford Ed., London, pp. 140 – 147.
11. **FRONCZYK J.** 2006: Przepuszczalne bariery sorpcyjne - właściwości materiału aktywnego. (In Polish) "Permeable sorption barriers: parameters of experimental materials". Scientific Review Engineering and Environmental Sciences, Vol. XV, No 1(33), SGGW Publishing, Warsaw, pp. 85 – 94.
12. **FRONCZYK J.**, GARBULEWSKI K. 2005: Modelowanie transportu zanieczyszczeń programem POLLUTEv6. (In Polish) "Modelling of contaminant transport through clay landfill liner using the program POLLUTEv6". Scientific Review Engineering and Environmental Sciences, Vol. XIV, No 2(32), SGGW Publishing, Warsaw, pp. 5 – 16.
13. **FRONCZYK J.** 2004: Przepuszczalne bariery reaktywne (PBR) – nowa metoda oczyszczania środowiska wodno-gruntowego. (In Polish) "Permeable reactive barriers (PRB) - new method of groundwater remediation". Construction Materials 8'2004 (no 384). SIGMA-NOT Sp. z o.o. Publishing, Warsaw, pp. 23 – 25.
14. **FRONCZYK J.**, GARBULEWSKI K. 2004: Właściwości sorpcyjne gruntów w barierach hydraulicznych. (In Polish) "Sorptivity of soils in hydraulic barriers". Scientific Review Engineering and Environmental Sciences, Vol. XIII, No 1 (28), SGGW Publishing, Warsaw, pp. 52 – 61.
15. GARBULEWSKI K., **FRONCZYK J.** 2004: Wpływ płynnych zanieczyszczeń na właściwości filtracyjne gruntów. (In Polish) "Effect of liquid waste on soil permeability". EU GeoEnvNet Seminar, Geoenvironmental Engineering - Transfer of Knowledge and EU's Directives to Newly Associated States. SGGW Publishing, Warsaw, pp. 157-168.