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Researchgate:	https://www.researchgate.net/profile/Anna-Karczewska-3
Personal website /	Integs.//www.researchgate.negprome/annra-transzewska-5
Working group website:	
Participation in projects	2015-2019: Project NCN 2014/13/B/ST10/02978: Antimony speciation in soils of selected areas in Lower Silesia, as related to
in last 5 years	environmental risk – PI:
(chronological; with	2017-2020: Project NCN 2016/21/B/ST10/02221: Bioavailability and ecotoxicity of arsenic in heavily contaminated soils in the sites of
distinction into PI	historical ore mining and processing - as related to environmental risk assessment - PI
(kierownik) and RF	Illistorical dre filling and processing - as related to environmental risk assessment - Pr
(wykonawca)):	
PhD topic:	Consisting and his qualishility of mately and matelliaids in contaminated calls subject to your disting
Research discipline in	Speciation and bioavailability of metals and metalloids in contaminated soils subject to remediation
	Agriculture and Horticulture
Doctoral School:	Verice blode of home attributes and a series of the series
Short description of the	Various kinds of human activities, such as ore mining and processing, were in the past, and are presently, the main sources on
research problem to be	environmental pollution with heavy metals and metalloids, such as copper, lead and arsenic. Human health risk and environmental
solved in the PhD	risk associated with soil contamination depend on total concentrations of pollutants and on their speciation in soils. In particular, the
(minimum 1000	solubility of metals and metalloids in soils and their bioavailability and ecotoxicity can be modified by remediation measures based
characters):	on application of various amendments. The effects caused by soil treatment with common materials used for remediation has been
	in general well recognized, however, the problem arises there where soil contamination involves various contaminants that behave
	differently and differ in their reactions to remediation measures applied. In such cases, the optimum solution should be found that
	can minimize all adverse effects and reduce the environmental risk. The main purpose of the study proposed for PhD project is the
	analysis of speciation, extractability, bioavailability and ecotoxicity of metals and metalloids in co-contaminated soils treated with
	various amendments. Soil material will be representative of sites contaminated by historical or present ore mining and processing –
	situated either in Poland or in the student's country.
Professional skills for	Graduation in chemical, biological, agricultural or environmental sciences. Good command of English language in reading, writing
PhD candidate (e.g.	and talking. Basic knowledge in the field of soil science (in particular soil chemistry), botany and environmental microbiology;
master program,	experience in work in a chemical laboratory, basic skills in chemical analyses. The ability to use MS Office package, and basic
specializations,	statistical tests. The knowledge of Statistica software, as well as graphical software (eg. Corel, Photoshop) will be welcome.
softwares, language,	Inquisitiveness and analytical mind will be necessary. Candidates that have experience in the issues of soil contamination and
analytical techniques,	remediation will be preferred.
minimum 500	
characters):	
a) Project title:	
b) Agreement number:	
c) Number of months in	
the project to support	
PhD (in months; starting	
from 1st of October	
2022):	
Project website:	