

Theme 6 „Environment”
Offer for the participation in the project that will be prepared for the 4th call for proposals
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Is interested in the participation in a project that will be prepared and submitted in the following topic:	
Number and title of the area	Area 6.1.3.3 Risk assessment and management
Number and title of the topic	ENV.2010.1.3.3-1 Early warning and forecasting systems to predict climate related drought vulnerability and risks in Africa
<p>Short description of the organisation: At the University work 1500 employees, including 200 Professors. There are 10.000 students, 5 Faculties, 39 Departments and Institutes, 33 specialities and 32 post-graduate courses.</p> <p>The Faculty of Environmental Engineering and Geodesy started in October 15, 1950. Faculty has the professional and scientific achievements in a variety of disciplines, combining science and agriculture, engineering and technology. The Faculty is organised in 3 Institutes and 5 Departments.</p> <p>The Institute of Environmental Development and Protection consists of 4 Departments, among others Department of Agro and Hydrometeorology with its Agro and Hydrometeorological Observatory where there observations and experiments are carried out, concerns on the assessment of the influence of weather and climate on the growth and cropping of crop plants, predicting of soil water reserves, modelling the circulation of water in the soil profile, drought assessment, climate change.</p> <p>Major research areas in Department of Building and Infrastructure are environmental engineering, water system and stormwater management, water protection, waste treatment and water supply. Employees are experienced in urban drainage, water supply, sewerage system, sewage treatment plant, monitoring of environment. Research areas are focused on storm water management by means of alternative infiltration facilities such as green roofs and infiltration module in urban areas.</p>	
<p>Proposed contribution to the project:</p> <ul style="list-style-type: none"> - assessment of drought vulnerability and risk in the aspect of climate change in local and macro region scales. 	
<p>Chosen references (publications, others):</p> <p>Biniak M., Żyromski A., 2005: Estimation of the possibilities of using air temperature to evaluate soil water reserves. Chapter 1– Physics in soil science, in Book: Review of current problems in Agrophysics. Józefaciuk G., Sławiński C., Walczak R.T., Institute of Agrophysics PAS, s. 21÷26.</p> <p>Biniak – Pieróg M., 2008: Agrometeorological elements influence on soil water reserves variability during Winter half – year. Monografia, seria: Współczesne problemy inżynierii środowiska, VII, Wydawnictwo Uniwersytetu Przyrodniczego we Wrocławiu.</p> <p>Biniak-Pieróg M., Machowczyk A., Szulczewski W., Żyromski A., 2009: Verification of soil water flow model in aeration zone on the basis of field investigations during years 2004 – 2007. Acta Agrophysica, zeszyt 166, vol. 13 (1), Lublin.</p> <p>Żyromski A., 2001.: The effect of agrometeorological conditions on water supplies in light soil characterized by spring ascent. Zeszyty Naukowe Akademii Rolniczej we Wrocławiu, nr 404, rozprawy CLXXVIII, Wydział Inżynierii Kształtowania Środowiska i Geodezji, Wrocław.</p> <p>Burszta-Adamiak E., 2008: Possibilities storm water management in urban areas I Ogólnopolska Konferencja Naukowo-Techniczna pod patronatem Komitetu Inżynierii Środowiska PAN. Infrastruktura komunalna a rozwój zrównoważony terenów zurbanizowanych „INFRAEKO 2008”, Rzeszów.</p> <p>Burszta-Adamiak E., Łomotowski J., 2005: Forecasting of water level changes during infiltration from subsurface facilities VII Międzynarodowa konferencja naukowo-techniczna „Efektywność wdrażania technologii informatycznych” z cyklu Komputer w ochronie środowiska, Gniezno, s.31-37 .</p> <p>Burszta-Adamiak E., Łomotowski J., 2007: Research of clogging process in storm water infiltration facilities VI Zjazd Kanalizatorów Polskich, POLKAN’07. Łódź,</p>	