


Name: Elzbieta Plaza			
Function:	Professor in Water and Wastewater Technology		
Institution:	Royal Institute of Technology		<input type="checkbox"/> Funding Agency <input checked="" type="checkbox"/> Programme Manager
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Division	Division of Land and Water Resources Engineering, Department of Sustainable Development, Environmental Science and Engineering (SEED)		
Areas of Expertise:			
Development of new treatment technologies and methods of wastewater and sludge characterization (biological nutrient removal from wastewater, phosphorus recovery, treatment of sludge liquors, membrane technology, removal of pharmaceuticals, GHG emissions).			
Short Description of your Institution:			
<p>KTH Royal Institute of Technology is the largest and oldest technical university in Sweden. One third of Sweden's technical research and engineering education capacity at university level is provided by KTH. KTH is co-owner together with Swedish Environmental Institute (IVL) of Hammarby Sjostadsverk research facility. There is several pilot plants fully equipped with on-line sensors and research laboratory for analysis. (http://www.sjostadsverket.se/Sjostadsverket/english/hammarby-sjostadsverk.html)</p> <p>The research group of "Water, Sewage and Waste Technology" (since 2007 with Elzbieta Plaza as research leader) belongs to SEED Department at KTH. The research area is technical oriented with the goal to develop and apply basic knowledge to improve different functions of municipal water, sewage and waste handling. Focus is directed towards different treatment methods combined with recovery of resources to achieve recycling in the society. (http://www.kth.se/en/abe/om-skolan/organisation/inst/see/om/avd/lwr/grupper/forskningsomraden/va-teknik)</p>			
Role in the project:			
<p>Principal Investigator of WP4 on main stream N removal (together with Aqualia and USC). Also involved in WP2 on main stream organic matter (OM) removal. The aim of WP4 is to evaluate the Anammox bacterial consortium at ambient temperatures with regard to their N removal potential and to analyze the stability of the modified ELAN and IFAS configurations.</p> <p>In WP2 in order to promote autotrophic nitrogen removal in WP4, different options to remove OM from the mainstream will be studied (in the UASB reactor, high rate activated sludge reactor working at a short SRT).</p>			