


<b>Title, Name and surname</b> Assoc. Prof. Elzbieta Fornalik-Wajs	
<b>Faculty and Department</b> Faculty of Energy and Fuels, Dep. of Fundamental Research in Energy Engineering	
<b>Keywords.</b> thermodynamics, energy systems, experimental analysis, numerical analysis, mass, momentum and energy transfer, magnetic convection, nanofluids, nuclear reactors, jets, heat exchangers	
<b>Scientific profile.</b> My research interests are directed but not limited to: thermodynamics and energy systems, experimental and numerical investigations of mass, momentum and energy transfer, they include: impinging jets, heat transfer processes in turbulent confined jets, convection in Czochralski melt systems, magnetic convection, nanofluids, heat exchangers, thermal-hydraulics in nuclear reactors.	
<b>Exemplary thesis titles</b> <ul style="list-style-type: none"><li>- Numerical analysis of energy transport caused by two-phase impinging jet</li><li>- Numerical analysis of silver nanofluid forced convection in channel of complex shape</li><li>- Numerical analysis of energy transport in high temperature plate heat exchanger</li><li>- Experimental and numerical analysis of convective heat transfer in a cylindrical system</li><li>- Experimental and numerical analysis of compressible flow in a duct of variable cross-section</li></ul>	
<b>The form of conducting master's theses</b> Students participate in weekly meetings where the research progress and plans for the next week's are presented. Detail issues are discussed during individual consultations.	