

**Dr. Angelos EFSTATHIOU**  
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## **Personal Profile**

*Angelos lives with his wife Maria have six children and live in a beautiful house in Lefkosia with three of them. The two older ones are away in Athens for studies. One is studying physiotherapy and the other one business administration. The third one in line is a soldier.*

## **Research Profile**

*Angelos holds a patent on the transformation of harmful waste gases which are oxides of nitrogen. The catalyst he developed uses hydrogen as a reducing agent to convert the pollutants into harmless nitrogen and water, whereas existing technology uses ammonia as a reducing agent, the use of which induces many technical problems as well as having a high investment cost.*

*The second main new point of this patent is that our catalyst works in much lower temperatures compared to the ammonia catalyst in use today. His works at 120-150 degrees whereas the one used up to now works at 300-400 degrees and as you can understand the most important benefit of this is the conservation of energy.*

*The catalyst is in a powder form - a mixture of solid magnesium and other oxides. In the tiny pores of this solid we have embedded very small particles of platinum. This is our catalyst for this particular process.*

## **Other interests**

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## **Relevant Links or info**

For further information about Prof **Efstathiou** and his work please visit <http://www.ucy.ac.cy/goto/chemistry/en-US/HOME.aspx>