

OUR YOUNG NANOSCIENTISTS – A SIGNIFICANT RELEASE TO THE ENVIRONMENT

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WP7

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« My proudest scientific achievement is the case study performed with FCCCO's photocatalytic road tiles, which consisted in the recovery of the released material from the **weathering experiments** in the climatic chamber. The experiment was really complex and very very long, it took us more than one year to finish it. When we obtained the final results, everything matched perfectly with what we expected! Now we are **refining the methodology** to make it shorter and easier, and we will be able to apply it to other materials. It was worth spending the time! **Vicenç Pomar - LEITAT - Spain**

« I have learned a lot from both the project and the scientists involved. As Young NanoScientists we had a lot of **opportunities to communicate our science** within the project allowing me to start overcoming my fear of public speaking. My proudest scientific achievement was to win a NanoFASE poster competition in Lancaster in 2017. My biggest surprise scientifically? How long cleaning plant roots takes :) ! A colleague and I came up with a root-washing song that evolved, transformed and was adapted to famous songs...**Denitsa Tarnovska – CEH – UK**

« The work in NanoFASE gave me insights into the working principles of big international science projects and allowed me to **connect to many leading scientists** in the field. It also taught me critical time management strategies and sharpened my **ability to discriminate** between things important and less important. My proudest scientific achievement is definitely the conduct and evaluation of the pilot scale experiments (incineration and pyrolysis). Funny only in retrospect: rushing by car from PSI where we had beamtime, to EAWAG in the middle of the night to pick up some ingredients and make preliminary measurements...By some miraculous twist of fate the reactions worked...  
**Alexander Gogos – EAWAG – Switzerland**

« My greatest satisfaction from NanoFASE is being able to meet so many great scientists and **develop a larger network**. My proudest achievement is being able to **refine the base model** in such a way that it gives estimates of the forms in which the nanomaterials are released to the environment. This is highly relevant for environmental fate, toxicity and risk assessment. My greatest surprise was probably to realise that nano-TiO2 could transform during its life cycle. It is known to behave as an inert material, but a NanoFASE study that showed that it can **transform** during incineration.  
» **Véronique Adam – EMPA – Switzerland**

« NanoFASE has taught me a lot about the **power of interdisciplinary research** and how beneficial it is when done properly. It's been a pleasure working with experts in so many different fields and gaining their knowledge, insights and hard work towards my main project role - the creation of the NanoFASE water-soil-organism model. My greatest satisfaction is also my proudest achievement – seeing the finished NanoFASE **water-soil-organism model in action**.» **Samuel Harrison – NERC CEH – UK**

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