

Practice summary

ANNA NIKOLISZYN
KRZYSZTOF PLUTA



Welcome



Technical university of Ostrava



VSB TECHNICAL
UNIVERSITY
OF OSTRAVA

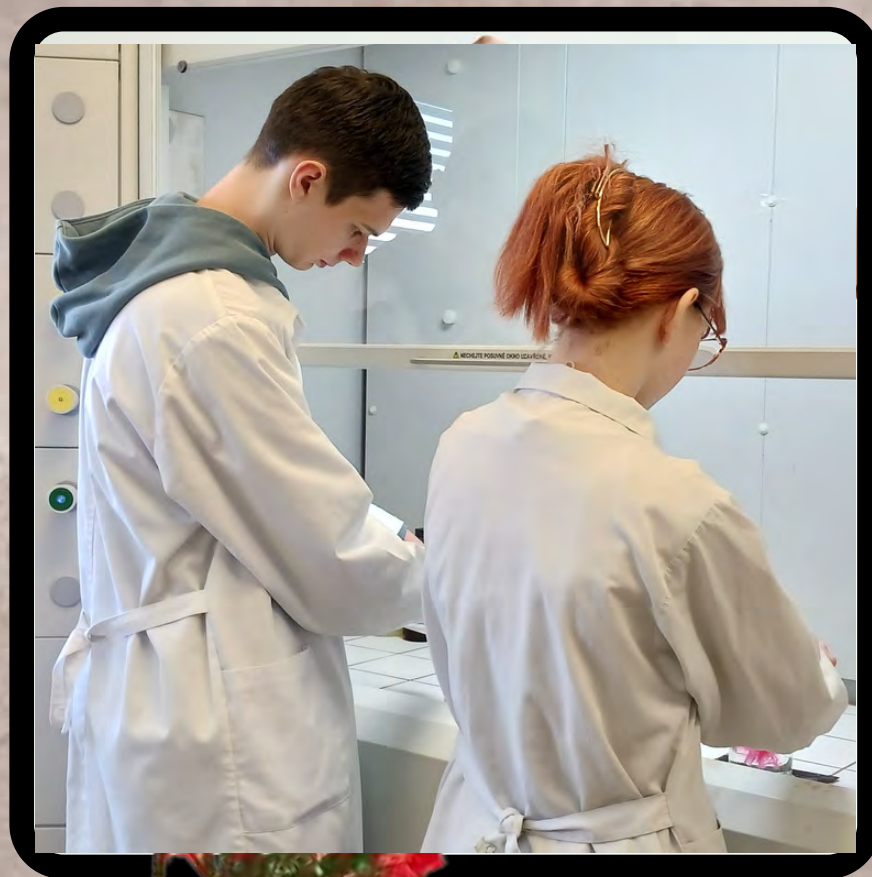
FACULTY OF MATERIALS
SCIENCE AND TECHNOLOGY

DEPARTMENT OF CHEMISTRY
AND PHYSICO-CHEMICAL
PROCESSES

VSB — Technical University of Ostrava has been connecting technical, economic, natural sciences and artistic disciplines in modern study programmes for more than 170 years responding to the real problems of the present.

The Department of Chemistry and Physico–Chemical Processes was established on 1 April 2022 by merging of three departments of the Faculty of Materials Science and Technology: the Department of Environmental Protection in Industry (616), the Department of Chemistry (617) and the Department of Physical Chemistry and Theory of Technological Processes (619).

Practice goals



During the four weeks of practice we learn everything about Photocathalysis, other chemical process and analysis like SEM, ZETA potencial etc.

And the most important goal: enjoy the practice

Our Work



SOLUTIONS



CLIMATE CHAMBER



PHOTODEGRADATION

Our Work

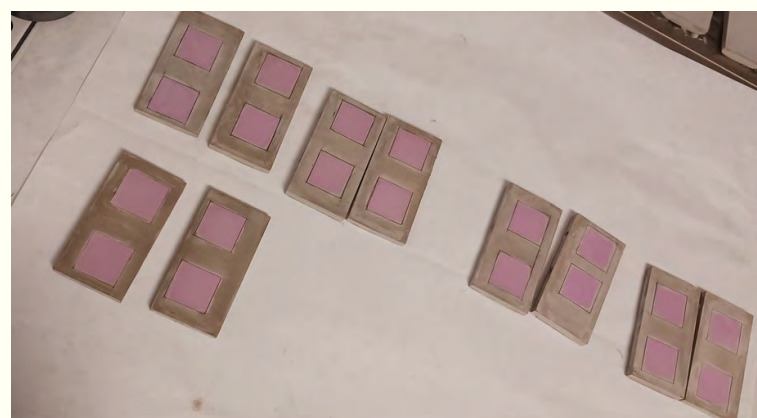
SOLUTIONS

Preparation of RhB, TiO₂, P25, M-bulk, TEX6 (g-C₃N₄) solutions for future analysis



ANALYSIS

Preparation of cement blocks that was placed in the Climate Chamber for the measurement of the photodegradation

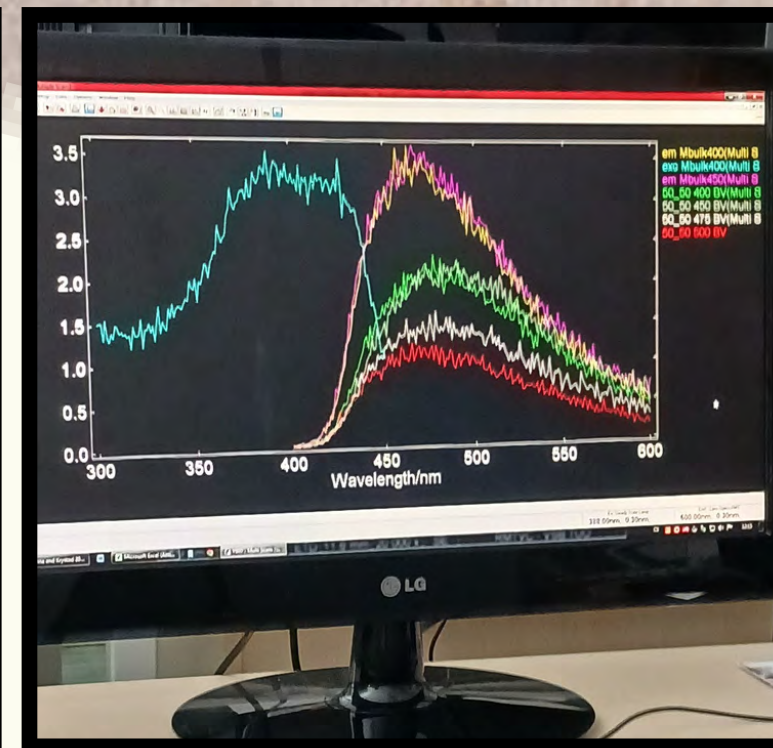
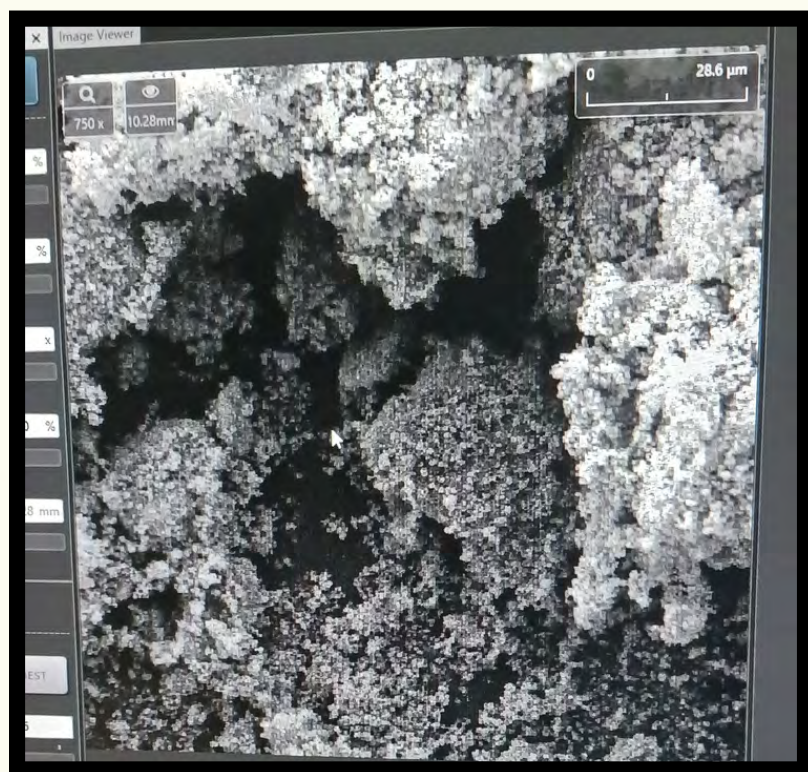


PHOTOCATHALYSIS

Photodegradation-the process or activity that occurs by the interaction of a light source to the surface of a material



Our work



Scanning electron
microscope

Calorimetry

Zeta
potencial

X-ray
Diffraction

Photoluminescence
Spectroscopy



Expectations vs Reality

EXPECTATIONS

Before we arrived, we thought we would be the "fetch, pass, sweep" kind of people, as is often the case in internships in Poland.

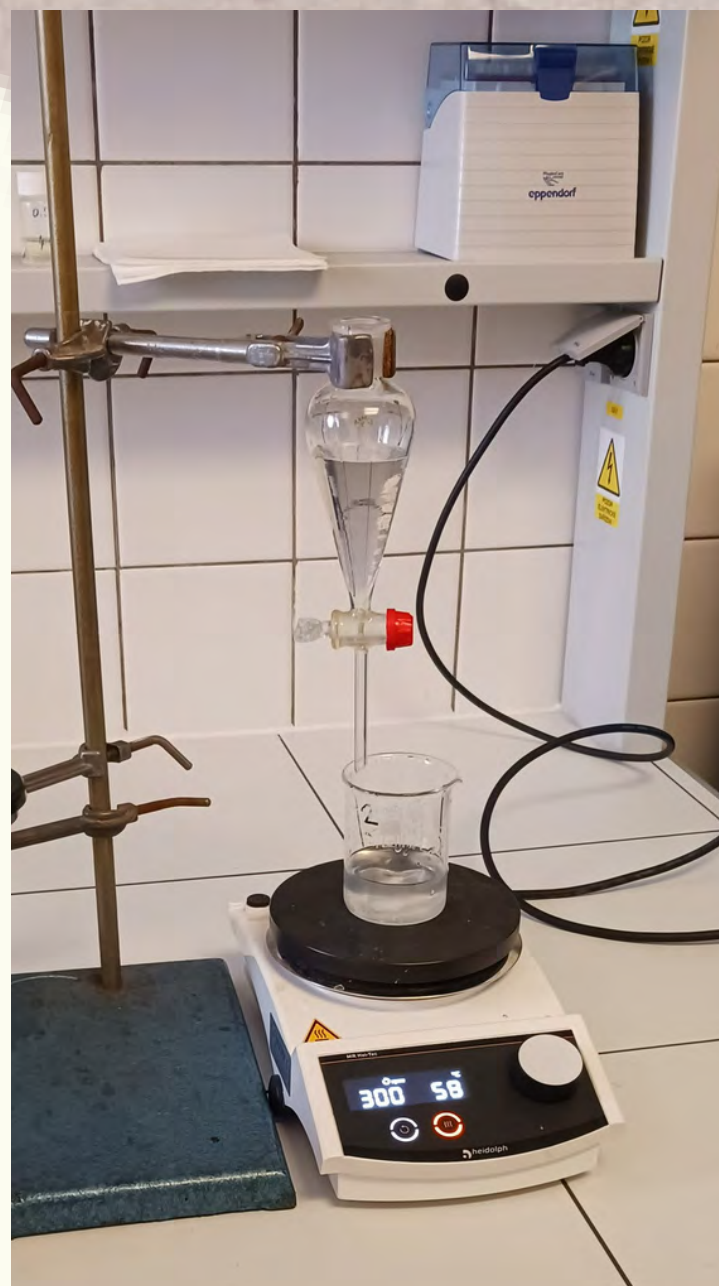
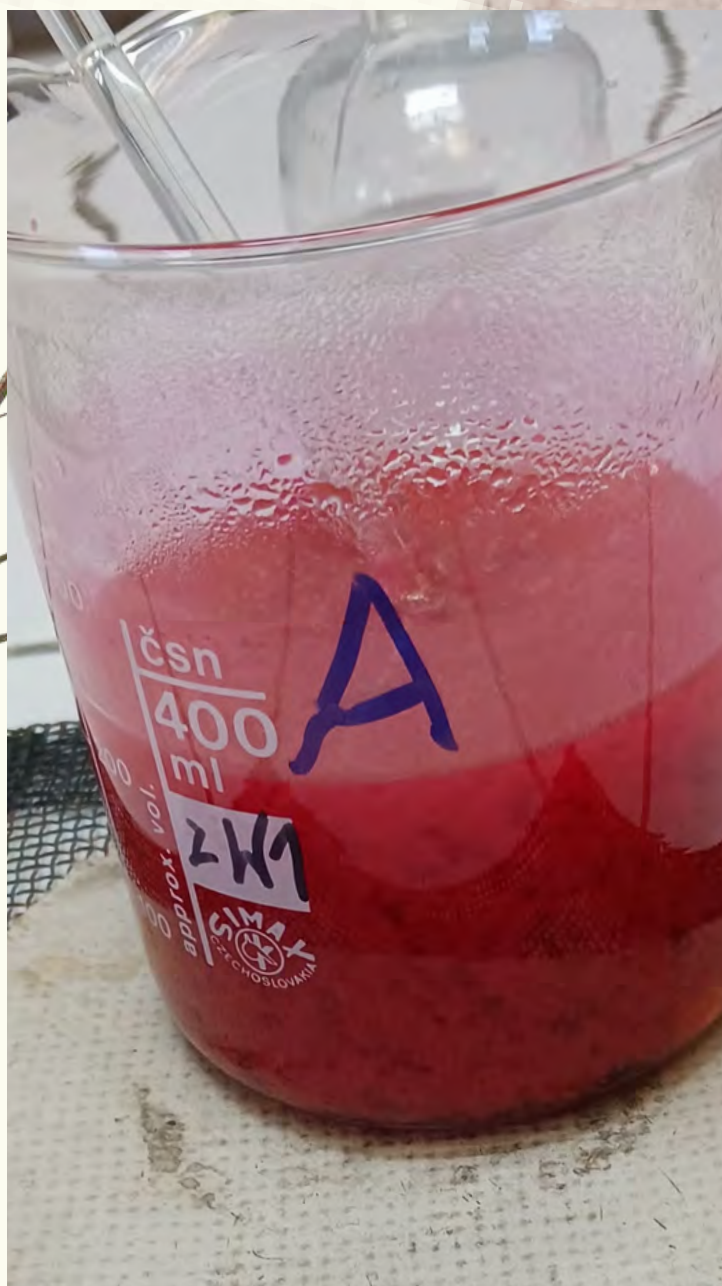
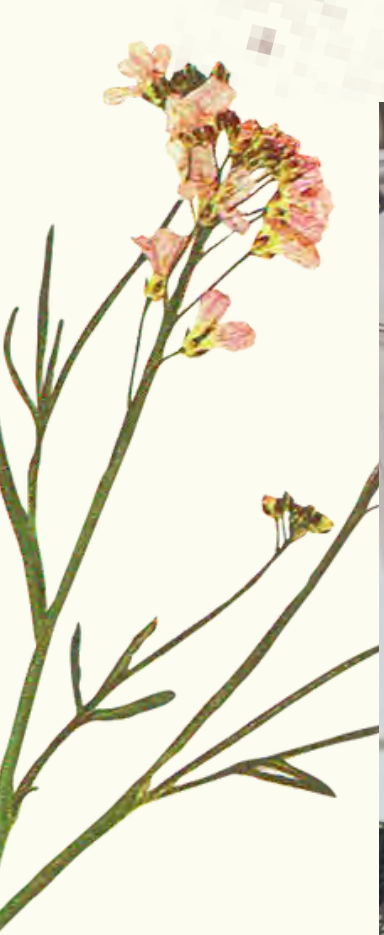
REALITY

Before leaving, we are very satisfied with the practice, we have learnt a lot and got to know things we did not expect to know. The same with people, we met more of them than we expected.



Our work but in photos







Technikum nr 15
im. Marii Skłodowskiej-Curie
we Wrocławiu

Any questions?

Thanks for these four weeks

