

**REPORT:**

**6<sup>th</sup> TwiNSol-CECs Training**

***“Development of pilot scale nanofiltration unit – transfer of knowledge and best practice”***

**NOVA University of Lisbon (UNL), NOVA School of Science and Technology (FCT), Lisbon, Portugal**

September 29<sup>th</sup> – October 4<sup>th</sup>, 2024

The sixth onsite TwiNSol-CECs training was organized as a one week visit of two researchers from the Faculty of Technology Novi Sad (TFNS) to UNL. TFNS researchers, Dr. Nikola Maravić and Jelena Šurlan, PhD student, visited UNL in the period between 29<sup>th</sup> September – 4<sup>th</sup> October 2024 as a part of the activities planned within TwiNSol-CECs project dedicated to the objectives of WP3 – Reinforcing research knowledge and skills of TFNS of TwiNSol-CECs project. The host of this visit was Prof. Joao Crespo, Leader of WP2 and WP5, who arranged details of the visit program with Dr. Claudia Galinha and Dr. Carla Brazihna.

One week training consisted of several meetings regarding activities within WP4 joint research and consultations and discussion regarding completed upgrades of a pilot scale nanofiltration unit at TFNS. During the 6<sup>th</sup> training, TFNS researchers had several meetings with Prof. Joao Crespo, Dr. Claudia Galinha and Dr. Carla Brazinha regarding joint research activities.

Main topics for discussion at meetings were:

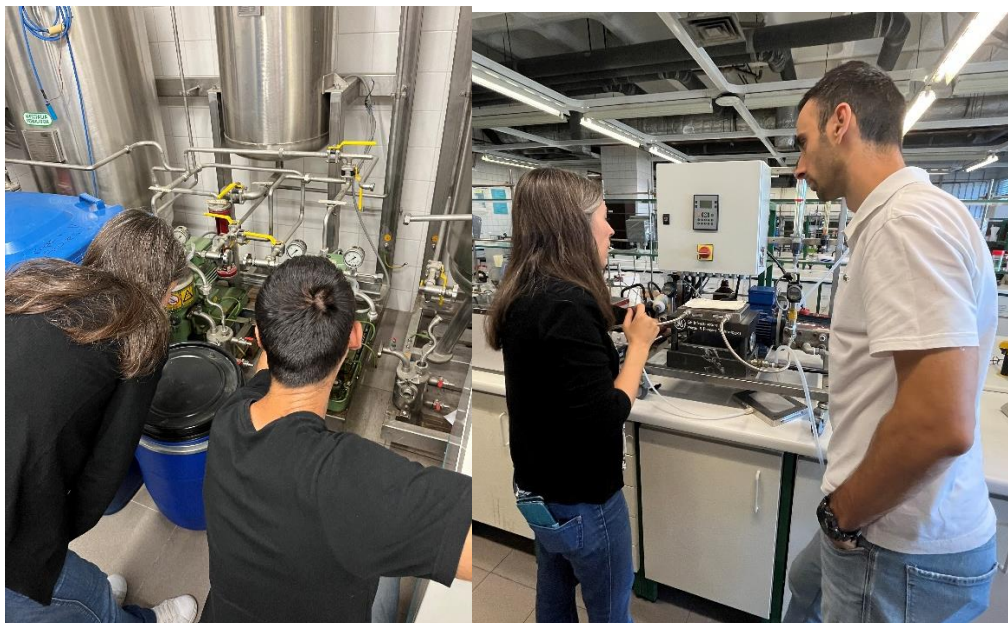
- Development and upgrade of pilot scale nanofiltration unit at TFNS,
- Experimental plan for future experiments by using pilot scale unit at TFNS,
- Finalization of the first manuscript,
- Discussion of obtained results and
- Discussions about future publications.

Dr. Nikola Maravić, Prof. Joao Crespo, Dr. Claudia Galinha and Jelena Šurlan discussed the results of multivariant statistical analysis, which will be used in the first research publication. The first version of the manuscript was reviewed and several suggestions were given by Prof. Joao Crespo. Additionally, future research which is to be conducted at the pilot scale equipment at TFNS was discussed, including water sources which will be used, water pretreatment and possibility of increased volume and duration of filtration process.

During the one-week visit to UNL, Dr. Nikola Maravić and Jelena Šurlan visited several laboratories at FCT with Dr. Claudia Galinha. The main focus was on the running of pilot scale nanofiltration and reverse osmosis equipment. TFNS researchers were shown several flat sheet pilot scale equipment, as well as spiral wound reverse osmosis equipment. They discussed the possibilities of including multiple safety measures on the equipment, as well as different sampling possibilities of feed, permeate and retentate.



**Figure 1** Meeting between TFNS researchers with Prof. Joao Crespo



**Figure 2** Dr. Claudia Galinha and Dr. Nikola Maravić working on pilot scale filtration equipment

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### **PROGRAM**

30.09.2024.

10,00 – 13,00 Discussion of the first manuscript within the TwiNSol-CECs project

13,00 – 15,00 Analysis of the multivariant statistical analysis research results

01.10.2024.

10,00 – 16,00 Visit to UNL laboratories - pilot scale equipment for membrane processes

02.10.2024.

10,00 – 14,00 Corrections of the first manuscript

14,00 – 15,00 Discussion on presentation of multivariant statistical analysis research results

03.10.2024.

10,00 – 12,00 Visit to UNL laboratories - pilot scale equipment for membrane processes

12,00 – 14,00 – Meeting on upgrades of pilot scale nanofiltration unit at TFNS with focus on safety

14,00 – 15,00 – Discussion on future uses of pilot scale nanofiltration equipment at TFNS

04.10.2024.

10,00 – 12,00 – Meeting regarding future research within TwiNSol-CECs project

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