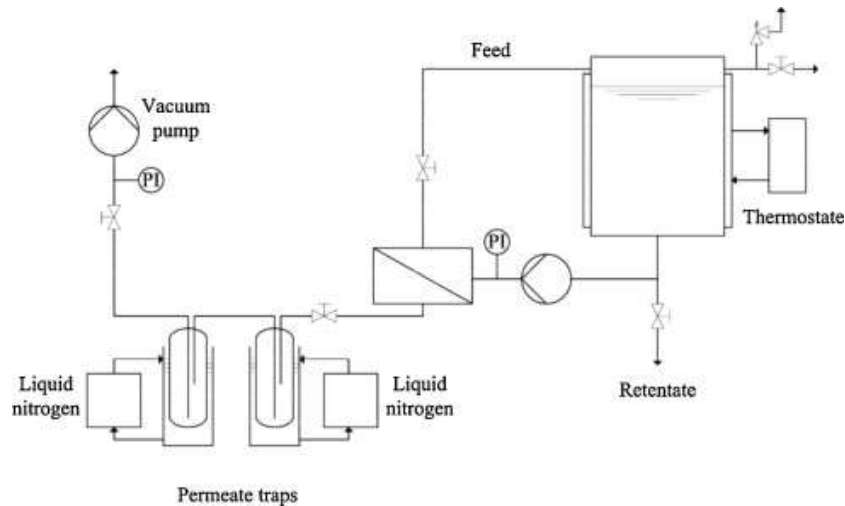


Experimental investigation of Ethanol-Butanol-water ternary mixture by Pervaporation



Supervisor: Asmaa Selim

Tasks:

- Hydrophilic pervaporation studies with Ethanol-Butanol-Water Ternary mixtures
- Performing laboratory experiments and analysis for the results using GC.
- This project might include the preparation of the membrane if the applicant interested.

Expected competences:

- Hard worker,
- Self-solving problem solving ability
- Good English language skills
- Knowledge of instrumental analytical techniques (GC)

Related literature:

1. Asmaa Selim ,Nóra Valentínyi, Tibor Nagy, Andras Jozsef Toth, Daniel Fozer, Eniko Haaz, Peter Mizsey , **Effect of Ag-nanoparticles generated in poly (vinyl alcohol) membranes on ethanol dehydration via pervaporation**, Chinese Journal of Chemical Engineering (2018). <https://doi.org/10.1016/j.cjche.2018.11.002>
2. Asmaa Selim, Andras Jozsef Toth, Eniko Haaz, Daniel Fozer, Peter Mizsey, **Pervaporation performance of Ag-PVA nanocomposite membranes: Effect of operating temperature** , Accepted in Periodica Polytechnica Chemical Engineering.

Start of work: immediately

Contact: as_kh_f@hotmail.com Phone: +36 1 463 2035 / Mobile: +36702262541