

Expert Opinion of PhD dissertation entitled  
***“Study on polydimethylsiloxane membrane contactors to recover dissolved gases  
(CH<sub>4</sub>, CO<sub>2</sub>) from anaerobic effluents”***  
written by **Merve Visnyei**

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**Supervisor:** Dr. Peter Bakonyi

Dear Dr. Edit Csefalvay,

I am sincerely grateful for the time and expertise you devoted to reviewing my PhD dissertation titled *“Study on polydimethylsiloxane membrane contactors to recover dissolved gases (CH<sub>4</sub>, CO<sub>2</sub>) from anaerobic effluents”* and for your kind, encouraging evaluation. I am pleased to learn that the revised version met your expectations and that you found all previous remarks to be carefully addressed.

I have carefully considered all your constructive suggestions and have revised the dissertation accordingly. In particular, I followed your advice to clarify the content of Figures 23 and 24. This was a very good idea: aligning the related statements with the corresponding equations has made those figures clear and informative, as you noted. I also added a brief Introduction at the beginning of the dissertation, as you recommended. This addition provides a clearer framework for the research objectives and improves the overall coherence of the thesis.

Furthermore, I standardized the references throughout the dissertation to ensure consistent formatting, just as you suggested. All references are now accurate, up to date, and presented in the same format. Finally, I refined the formulation of the thesis points to ensure that each statement meets the scientific standards and stands as a clear, standalone statement. Your guidance in this regard was very insightful, and implementing your suggestions has undoubtedly enhanced the clarity and scientific quality of the thesis.

I also appreciate your recognition of the novelty and scientific merit of this research. Your positive opinion on methodological approach, and quality of writing is very encouraging. I am honoured by your acknowledgement of the strong scientific contributions of the work, including the significance of the related publications and conference presentations.

Once again, thank you for your thoughtful feedback and for recommending the acceptance of this dissertation. Your valuable insights have greatly improved my work, and I am grateful for your support.

Veszprém, 08 December 2025.



Merve Visnyei