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| Activity report :  A set of experiments have been carried out to continue studying the evolution of the foam and its height as a function of time, using the 3D column set up. With comparison to the experiments carried out the first month, this time the concentration of surfactant SDS has been modified from 10 g/L to 5 and 2.3 g/L. The idea is to compare the effect of the concentration of the surfactant on the stabilization of the height of the foam. The concentration of CO2 as a function of time is measured along the column to obtain the characteristic time for the CO2 to reach the CO2 sensor and compare it when there is no foam in the column.  In parallel, the last week I started some physical-chemical tests to obtain the critical micelle concentration (CMC) of another surfactant, which is its concentration in a bulk phase above which aggregates of surfactant molecules start to form. The idea is to know this property of this surfactant, first to compare it with the results using SDS, and second, since this is the kind of surfactant used in the context of the carbon capture project of Total Energy research team, the idea is to compare the results and experiments along with what they are looking for. At this stage I am still working on getting the surface tension curve for the surfactant, to prepare the solution at the certain concentration close to the CMC that will be used to produce the foam. | Are you experiencing particular problems?  Supervising  Theoretical and practical knowledge  Other |
| Precise this or these problems | |
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